



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32213

Entry Year: 2026

Acreage: 608

County: Marquette

Management Area: Michigamme Highlands

Stand Examiner: Jacob Siler

Legal Description:

T48N, R29W, Sections 8 and 16.

Identified Planning Goals:

Regenerate and improve quality of hardwood stands.

Soil and topography:

Surface sediments consist of thin to discontinuous glacial outwash sand and gravel and postglacial alluvium. Topography ranges from relatively level creek bottoms, swamp conifer, tag alder with bog or marshlands to rugged upland with rock outcroppings and rocky soils. Deep ravines also exist along some of the drainages making for treacherous walking in some locations.

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

State ownership here is a scattered checkerboard arrangement surrounded and intermixed with large corporate forest holdings that are increasingly becoming private land holdings. Development is very limited with a few seasonal cottages or hunting camps widely distributed. Production of forest products along with hunting, trapping and fishing make up the land uses in this compartment.

Unique Natural Features:

Round Lake and the various outlet creeks of Wolf, Clear and Log Lakes come together to form the Middle Branch of the Escanaba River.

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

The northern region of this compartment contains the Middle Branch Escanaba River and an unnamed stream, both of which serve as tributaries to Round Lake. The Middle Branch Escanaba River and the unnamed stream are designated Type 1 trout streams less than 50-ft wide and have a predicted mean July temperature of 57.0 °F (cold streams). 300-foot buffers are recommended for the Middle Branch Escanaba River and the unnamed stream 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, buffer is recommended to protect these areas in accordance with Best Management Practices.

The southern region of this compartment contains Round Lake and Kipple Creek. Kipple Creek is a designated Type 1 trout stream less than 50-ft wide and has a predicted mean July temperature of 61.6 °F (cold stream). A 300-foot buffer is recommended for Kipple Creek 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, buffer is recommended to protect these areas in accordance with Best Management Practices.

A minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended for Round Lake to protect shoreland areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is found within the Michigamme Highlands Management Area, which is on an Outwash Plain in northern Marquette County. The State Forest covers about 3,800 acres and is somewhat scattered parcels. The dominant natural communities are dry northern forest. The major forest cover type is jack pine. This management area provides multiple benefits to the public including forest products, dispersed recreational activities, and habitat for fish and wildlife species. The management priority in this area is to continue to provide these multiple benefits in a sustainable manner while minimizing user conflicts. Wildlife considerations in the Michigamme Highlands Management Area consist of managing jack pine habitat with strategies that more closely mimic natural fire disturbance regimes, to increase early successional

jack pine management where appropriate while increasing stand size and striving to accommodate many species associated with xeric forest habitat is desirable. Some of the most significant wildlife management issues in the management area are mast (hard and soft); habitat fragmentation; within stand diversity; mature forest condition; mesic conifer; large open land complexes; and early successional forest.

The following have been identified as featured species for the Menominee-Marquette Management Area: Blackburnian Warbler, Black-throated Blue Warbler, Cerulean Warbler, Kirtland's Warbler, Red Crossbill, Black-backed Woodpecker, Spruce Grouse, Ruffed Grouse, Snowshoe Hare, White-tailed Deer, Black Bear.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of thin to discontinuous glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 100 and 200 feet or there is insufficient data to determine the thickness. Precambrian Archean Granite/Gneiss subcrops below the glacial drift. The Granite/Gneiss could be used for building or dimension stone. Gravel pits are located in the area, but potential appears to be limited. Abandoned iron mines are located to the south. This compartment was not previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

The Burma Road leading North from the Clowry grade (an abandoned or railroad siding) is the only access to this compartment. It is a very hilly narrow road that recently has been brushed and upgraded.

Survey Needs:

Survey will be needed if treatments are to be implemented.

Recreational Facilities and Opportunities:

No recreational development has occurred in this compartment. A portion of the Burma Road is used as a groomed snowmobile trail. Other activities include hunting, fishing, biking, trapping, prospecting, berry picking and moose watching!

Fire Protection:

This compartment is included within the normal fire protection area of the Ishpeming DNR field office with backup available as needed from other DNR units.

Additional Compartment Information:

The following reports from the Inventory are attached:

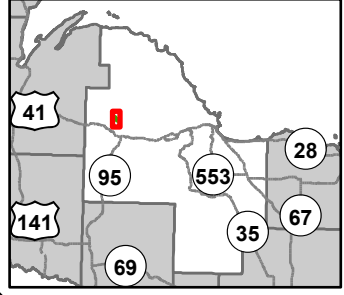
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

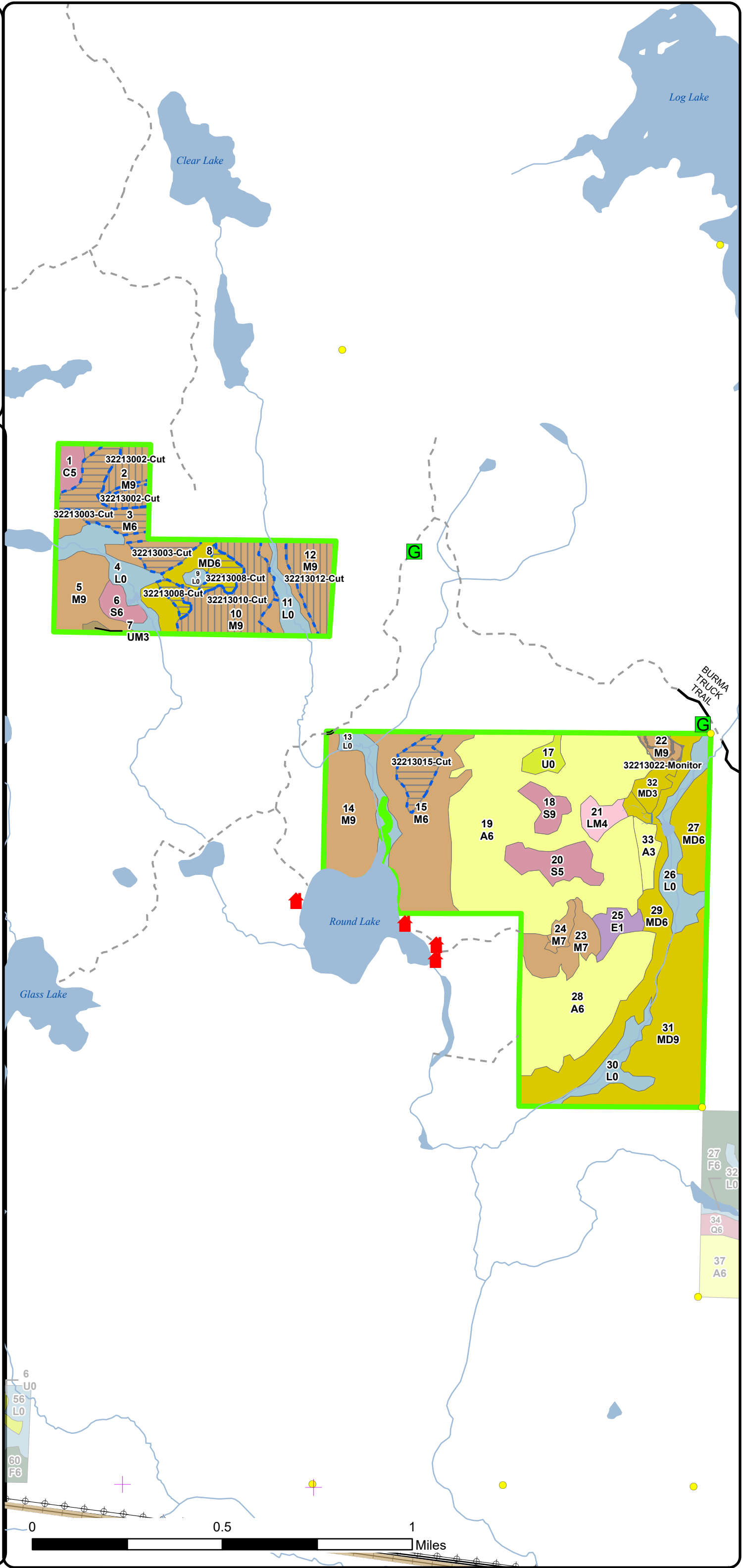
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 32213
 T48N, R29W, Sec: 8, 16
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Michigamme
 Highlands
 YOE: 2026
 Acres: 608.5 GIS Calculated
 Examiner: Jacob Siler
 Map Revised: 10/04/2024
 Map Phase: Post Review

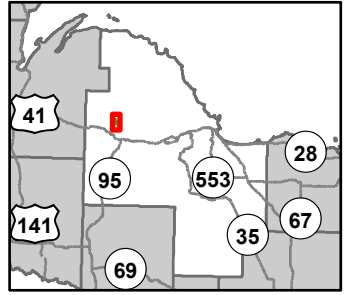


- = Designated ORV Routes
- + Remonumented Section Corners
- Survey Grade Corners
- Cabin
- G Gate
- Culvert
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub

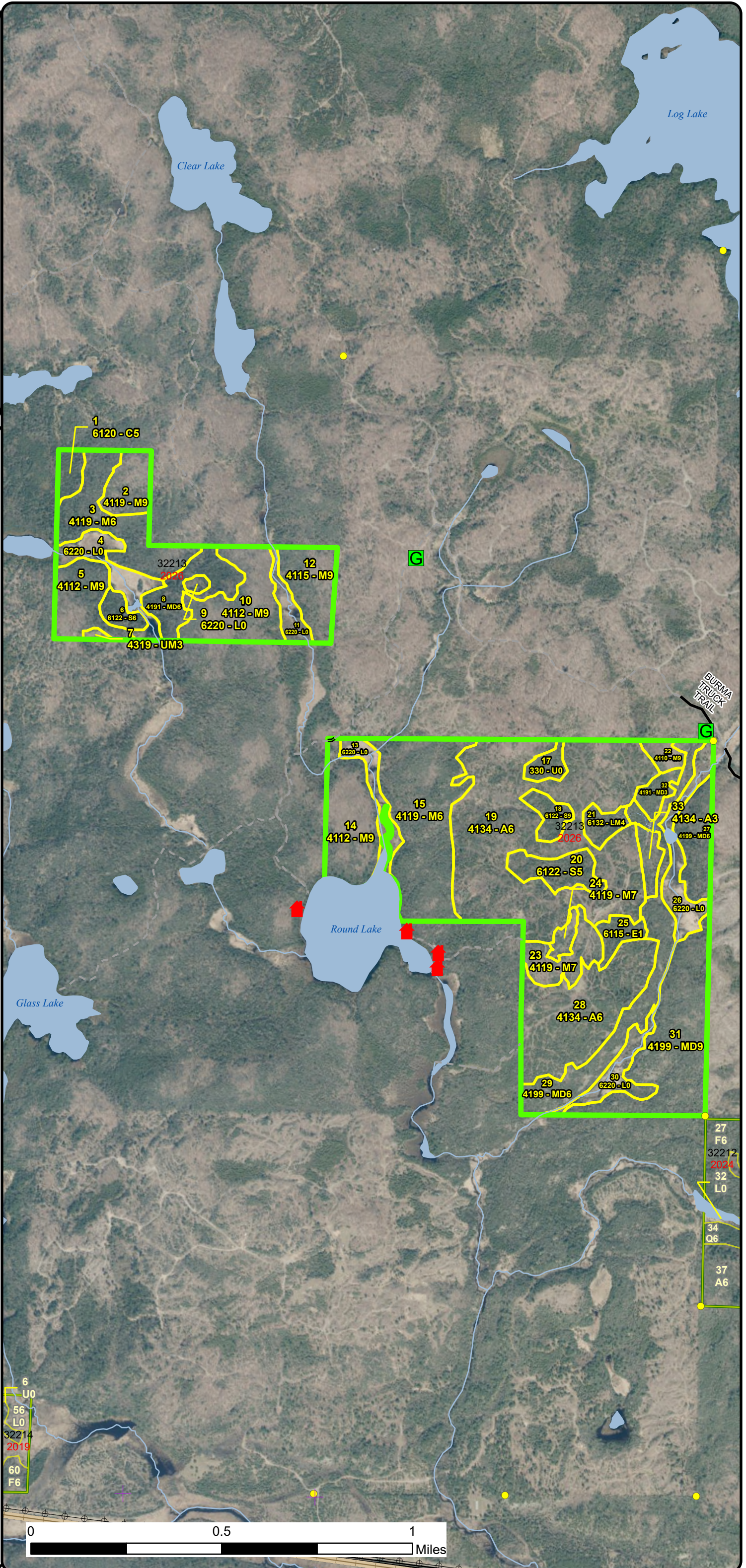


Stand Boundary Map

Compartment: 32213
 T48N, R29W, Sec: 8, 16
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Michigamme Highlands
 YOE: 2026
 Acres: 608.5 GIS Calculated
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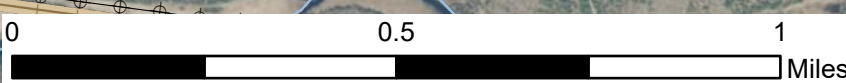


- = Designated ORV Routes
- + Remonumented Section Corners
- Survey Grade Corners
- Cabin
- G Gate
- Culvert
- DNR - Secondary Forest Road
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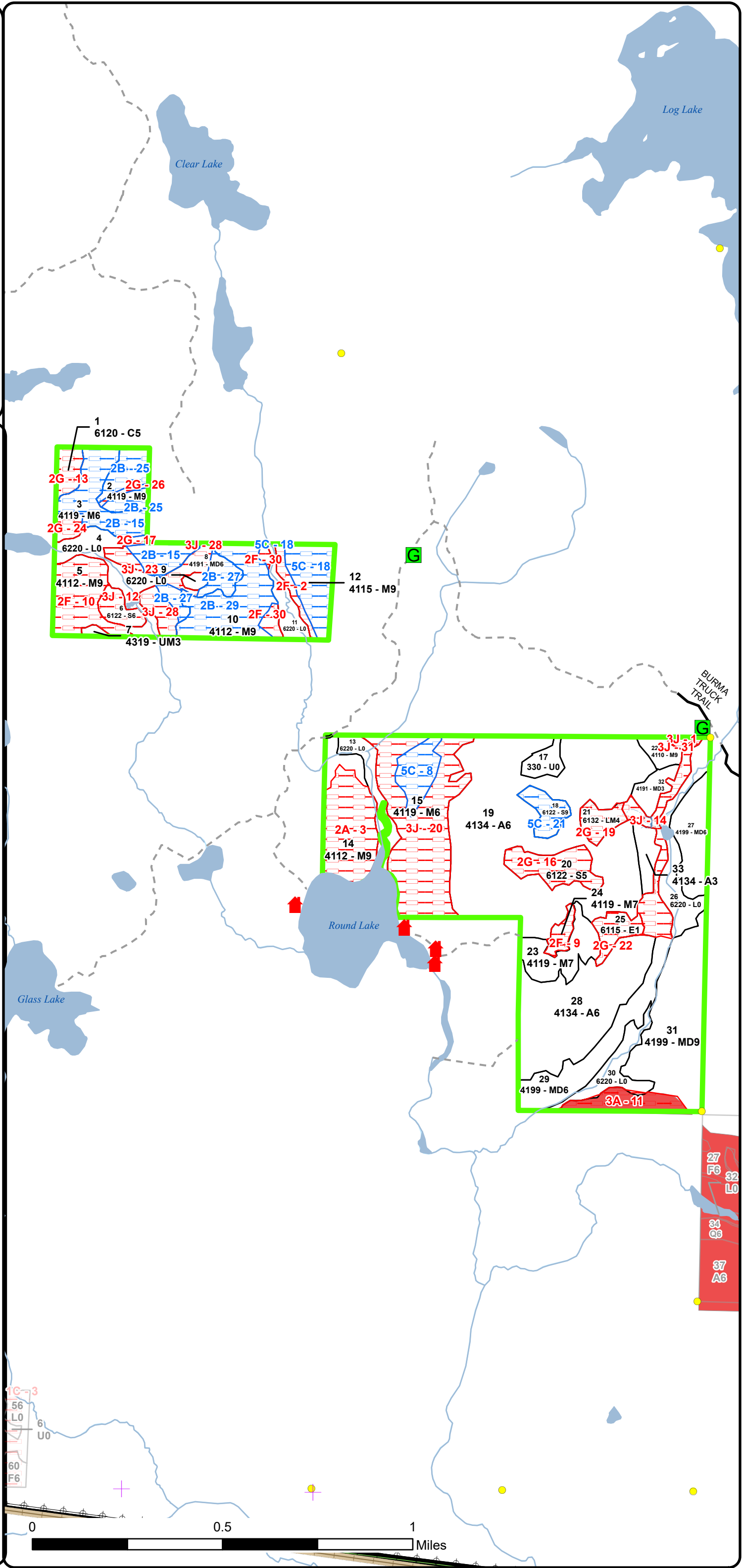
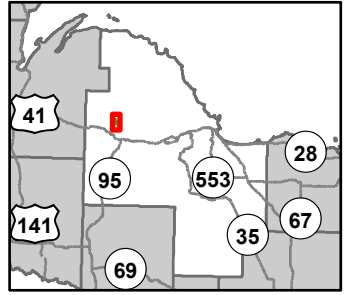
6
U0
56
L0
32214
2019
60
F6

27
F6
32212
2024
32
L0
34
Q6
37
A6

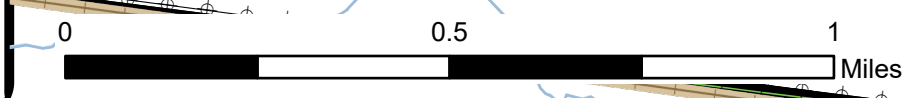


Special Conservation Areas & Site Conditions Map

Compartment: 32213
 T48N, R29W, Sec: 8, 16
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Michigamme
 Highlands
 YOE: 2026
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- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ⊕ Powerline
- ▭ Compartment Boundary
- ▭ SCA
- ▭ Available w/ Constraints
- ▭ Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2A: Adjacent landowner denied access
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- ▭ Unavailable
- ▭ Stand Boundaries
- ▭ Stand Boundaries
- ▭ Ecological Reference Areas
- Cold Water Streams
- ▭ Trail - Trail Corridor



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	5	0	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	174
Cedar	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Deciduous	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Lowland Shrub	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	12	5	6	0	0	0	0	0	23
Mixed Upland Deciduous	0	5	0	0	0	0	0	0	0	32	86	0	0	0	0	0	0	0	123
Northern Hardwood	0	0	0	0	0	0	0	0	0	28	21	83	46	29	0	0	0	0	207
Upland Mixed Forest	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	63	10	1	169	6	0	0	0	0	60	124	94	52	29	0	0	0	0	608



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 213

Total Compartment Acres: 608

Commercial Harvest -
 Harvests with Site Condition - 88
 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
Mixed Upland Deciduous	8	0	0	0	0	0	0	0	0	8
Northern Hardwood	31	0	0	0	50	0	0	0	0	81
Total	39	0	0	0	50	0	0	0	0	89

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	89	0	0	0	0	0	4	0	0	93
Next Step	0	0	0	0	0	0	89	0	0	89
Total	89	0	0	0	0	0	93	0	0	181



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

Proposed Treatments:

2	32213002-Cut	10.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	120	111-140	Harvest	Shelterwood	4119 - Mixed Northern Hardwoods	Even-Aged	No
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Prescription Mark to a residual basal area of 30 to 50ftsq. Concentrate on leaving large maples and yellow birch. Favor leaving yellow birch over maple when possible. Leave all species represented. Do not cut pine, cedar, oak and hemlock. Exclude drainage.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Maple, birch, aspen, pine, cedar, hemlock, and oak.
Regen:

Other Dry summer/ winter harvest recommended. Drainage may need to be crossed for access.
Comment:

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2025

3	32213003-Cut	22.0	4119 - Mixed Northern Hardwoods	Poletimber Well	100	111-140	Harvest	Clearcut with Retention	4119 - Mixed Northern Hardwoods	Even-Aged	No
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Prescription Cut all trees 2 inches and greater at DBH. Do not cut cedar, hemlock, oak, yellow birch and pine. No chipping. Excluded drainages and wet areas with sensitive soils. Utilize clumps or patches of trees 15 inches or greater when designating retention.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable maple, birch, aspen, balsam poplar, ash, pine, oak, hemlock, cedar
Regen:

Other Dry summer or winter harvest recommended.
Comment:

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2025

8	32213008-Cut	7.6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	88	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Cut all trees 2 inches and greater at DBH. Do not cut pine, oak, cedar and hemlock. Buffer stream 300 ft.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable maple, aspen, balsam poplar, fir, spruce, pine, oak, cedar, hemlock
Regen:

Other Exclude drainage and buffer stream.
Comment:

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2025



Standard

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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10	32213010-Cut	24.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	80	141-170	Harvest	Shelterwood	4115 - Y.Birch, Hemlock NH	Two-Aged	No
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Prescription Mark to retain residual BA of 40 to 60sqft. Focus on leaving sugar maple, yellow birch, and black cherry. Leave residual of 80sqft within 100 ft of river. Do not cut pine, cedar and hemlock. No chipping.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: maple, cherry, pine, cedar, oak, birch and aspen

Other Comment:

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2025

12	32213012-Cut	14.2	4115 - Y.Birch, Hemlock NH	Sawtimber Well	110	111-140	Harvest	Shelterwood	4115 - Y.Birch, Hemlock NH	Two-Aged	No
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Prescription Low density shelterwood. Leave residual of 20 to 40sqft. Focus on leaving large sugar maple and yellow birch. Favor yellow birch over maple when possible. Leave residual of 80sqft within 100 ft of river. Do not cut pine, cedar and hemlock. No chipping. When designating retention area(s) leave patches or clumps with trees 15 inches or greater.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: maple, oak, aspen, cherry, pine, hemlock, cedar

Other Comment: Steep slope down to Middle Branch Escanaba River. Terrain and river buffer will provide areas of heavier stocking. Access will be through private timber company land. Due to terrain and operability treatment area will likely be further reduced.

Site Condition: Age-Class or Site Quality

Proposed Start Date: 10/1 /2025

15	32213015-Cut	9.4	4119 - Mixed Northern Hardwoods	Poletimber Well	105	111-140	Harvest	Clearcut with Retention	4119 - Mixed Northern Hardwoods	Even-Aged	No
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Prescription Cut all trees 2 inches and greater at DBH. Do not cut pine, cedar, hemlock, and yellow birch. No chipping. Leave retention area with trees 15 inches or greater. Retention area should be a single patch.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: Maple, pine, aspen and birch

Other Comment: Buffer river to the west 300ft. Winter or dry summer recommended

Site Condition: Age-Class or Site Quality

Proposed Start Date: 10/1 /2025

Approved Treatments:

22	32213022-Monitor	4.2	4110 - Sugar Maple Association	Sawtimber Well	98	51-80	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Monitor
Specs:

Next Step
Treatments:

Acceptable Regen: aspen, maple, cherry, yellow and paper birch, ironwood, balsam fir, white spruce, hemlock, white pine and red pine.

Other Comment: Percent to Treat = 100%



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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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<p>Site Condition:</p> <p>Proposed Start Date: 1 /12/2036</p>

Total Treatment 92.7
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jacob Siler: Examiner

Compartment: 213
Year of Entry: 2026



Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions						
Acres	Available	With Condition	Not Available	2B	5C	2A	2F	2G	3A	3J
174	174	0	0	Aspen				0		
5	0	0	5	Cedar				5		
5	5	0	0	Low-Density Trees						
6	0	0	6	Lowland Deciduous				6		
6	0	0	6	Lowland Mixed Forest				6		
58	57	0	0	Lowland Shrub					0	
23	0	6	17	Lowland Spruce/Fir		6		12		5
124	83	8	33	Mixed Upland Deciduous	8				9	24
207	23	82	103	Northern Hardwood	58	24	23	27	5	47
1	1	0	0	Upland Mixed Forest						
608	344	95	169	Total Forested Acres	66	30	23	27	34	76
	57%	16%	28%	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	3J: Water quality / BMPs (stream, river, or lake)	1	2F: Too steep	5E: Long-Term Retention	Unspecified	Unspecified
Comments: Left this island of the hardwood stand uncut due to a stream and steep ground.							
2	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2A: Adjacent landowner denied access	23	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jacob Siler: Examiner

Compartment: 213
Year of Entry: 2026



8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments: Small acreage and access make harvesting this small portion of the stand not financially feasible at the moment. It would be best suited to harvest this stand if access can be secured to other nearby stands.							
9	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Rock bluff. Cannot harvest within this stand.							
10	Unavailable	2F: Too steep	18	2E: Road needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments: Private property was cut adjacent to this stand 15 to 20 years ago. However, once you get onto state land there are several large rock outcroppings and it gets quite steep. A good portion of this stand wouldn't be operable and is better left as is.							
11	Unavailable	3A: Conservation Values incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA: "Pesheke Highlands" Dry-Mesic Northern Forest							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2B: Unknown if access through adjacent landowner(s) is possible	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments: This stand borders a stream that has some beaver activity. Once the stream is buffered it doesn't leave a lot to cut. Additionally, beaver activity has caused water to be backed up adjacent to the stand and is starting to impact the amount of soil moisture in the stand.							

Report 4 – Site Conditions

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13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	2B: Unknown if access through adjacent landowner(s) is possible	23	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Drainage							

Report 4 – Site Conditions

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18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments: Small acreage and access make harvesting this small portion of the stand not financially feasible at the moment. It would be best suited to harvest this stand if access can be secured to other nearby stands.							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments: A majority of this stand can be cut. However, it's not practical to treat this stand by itself, given its location, size and stand access. Look at cutting this stand with surrounding aspen when ready. Probably best cut as an optional scaled unit.							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	2B: Unknown if access through adjacent landowner(s) is possible	11	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Drainage							
27	Available	2B: Unknown if access through adjacent landowner(s) is possible	8	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	2B: Unknown if access through adjacent landowner(s) is possible	25	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
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30	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	2G: Too wet (sensitive soils, does not include access issues)	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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
1	6120 - Lowland Cedar	Poletimber Medium	5.1	98	111-140	N/A	Stand of swamp conifer of poor quality. West side of stand contains low density pole sized cedar with very nice cedar regeneration underneath. Southern end of stand has more black spruce but a lot of it is infected with mistletoe. I sent Bob Heyd coordinates for the mistletoe area so he could put it on the GDSE. (2014)	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		10	Pole	8		Black Spruce		
Tamarack		10	Log/Pole	11		Northern White Cedar		
Northern White Cedar		80	Pole	9	98	Balsam Fir		
						Tamarack		
						Tag Alder		
2	4119 - Mixed Northern Hardwoods	Sawtimber Well	11.5	120	111-140	N/A	Trace white pine and cedar. Steep hills on west and south side. some large 18+ inch yellow birch and maple should be good seed source.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		1	XLog/Log	18		Sugar Maple		
Sugar Maple		50	Log/Pole	11	120	Balsam Fir		
Red Maple		29	Pole	9		Ironwood		
Yellow Birch		15	Log	14		Red Maple		
Paper Birch		5	Log/Pole	13		White Pine		
3	4119 - Mixed Northern Hardwoods	Poletimber Well	29.2	100	111-140	N/A	Trace amount of cherry, cedar and tamarack. Lower quality stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		15	Log/Pole	11		Red Maple		
Quaking Aspen		10	Log	14		Black Spruce		
White Spruce		2	Log/Pole	10		Balsam Fir		
Yellow Birch		2	XLog/Log	18				
Sugar Maple		8	Pole/Log	9				
Black Spruce		10	Log/Pole	10				
Red Maple		52	Pole/Log	9	100			
Balsam Fir		1	Pole	8				
4	6220 - Alder/willow	Nonstocked	14.9		Unspecified	No		
5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	17.7	120	111-140	N/A	Trace amount of oak and cedar. Very rocky larger diameter trees on west side sloping into wetter smaller diameter trees.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		60	Log/Pole	15	120	Balsam Fir		
Paper Birch		5	Log/Pole	11		Red Maple		
Yellow Birch		3	XLog/Log	18		Sugar Maple		
White Pine		1	XLog/Log	18				
Red Maple		29	Pole	10				
Black Spruce		2	Log/Pole	10				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																				
6	6122 - Black Spruce	Poletimber Well	5.1	103	81-110	N/A	Black spruce mixed with tamarack. Stand is starting to break up but is still quite healthy.																																																																																				
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7	4319 - Mixed Upland Forest	Sapling Well	1.0	15	Immature	N/A	Stand consists of a small clearcut. Adjacent landowner had their property cut as well in what appears to be the same time. I am not sure if this was a trespass but the cut appears to be at least 5-10 years ago. I could not find control nearby to verify if the compartment boundary should be moved further North. (2014)																																																																																				
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8	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	17.2	88	81-110	N/A	Lower quality stand.																																																																																				
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12	4115 - Y.Birch, Hemlock NH	Sawtimber Well	17.5	110	111-140	N/A	Stand of poorer quality sugar maple and yellow birch. Rocky. Steep slope down to the Middle Branch Escanaba River. Trace amount of large cherry. Some large 18+ maple that should be good seed source.																																																																												
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14	4112 - Maple, Beech, Cherry Association	Sawtimber Well	28.3	114	111-140	N/A	Stand is growing on numerous hills. Poorer quality hardwood. Private road touches northwest corner of the stand.																																																																												
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15	4119 - Mixed Northern Hardwoods	Poletimber Well	54.1	105	111-140	N/A	Mixed stand of poorer quality white birch, maple and aspen. A thick understory of balsam fir exists. Stand is falling apart due to age. Rocky ground, some areas of large house sized boulders. Some top dieback occurring in maple. Stand is on a series of East/West ravines with drainages on the bottom. Trace amount of white pine.																																																																												
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17	330 - Low-Density Trees	Nonstocked	4.7		Immature	No	Large beaver dam on west side has flooded out this stand. Primarily just standing dead timber now.																																																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
18	6122 - Black Spruce	Sawtimber Well	6.1	110	81-110	N/A	Area of low ground that was excluded from the last timber sale. South side of stand borders bottom of long cliff. Lots of Rock with only a few practical access points. North side has more cedar. 1 upland rock with a few aspen. Some of this could be cut, but cedar areas are best left as is. Trace amount of yellow birch.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Tamarack	15	Log/Pole	10		Balsam Fir	Medium		Variable	Sapling	
White Pine	1	Log	15		Tag Alder	Low		5 - 10 feet	Tall Shrub	
Northern White Cedar	15	Pole	8		Black Ash	Low		Variable	Sapling	
Black Spruce	62	Log/Pole	10	110	Black Spruce	Low		Variable	Sapling	
Quaking Aspen	2	Log	13		White Pine	Trace		Variable	Sapling	
Red Maple	5	Pole	8		Northern White Cedar	Low		< 5 feet	Seeding	
19	4134 - Aspen, Spruce/Fir	Poletimber Well	121.0	24	Immature	N/A		Stand was cut in 1999. OI notes say that good scarification occurred during the sale. As a result a broad mix of species exist. Nice regeneration with a mix of species. Trace amounts of white pine and red pine sapling/ poles. Trace amount large of hemlock, yellow birch, and red oak. A few small areas, 1-2 acres, of larger maple.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Red Maple	15	Sapling/Pole	4		Quaking Aspen	Medium	Variable		Sapling	
Paper Birch	5	Sapling/Pole	4		White Pine	Trace	Variable		Sapling	
Balsam Fir	25	Pole/Sapling	5		Red Maple	High	Variable		Sapling	
Balsam Poplar	5	Sapling/Pole	4		Sugar Maple	Low	Variable		Sapling	
Sugar Maple	1	Log/XLog	13		Tag Alder	Trace	5 - 10 feet		Tall Shrub	
Quaking Aspen	43	Pole/Sapling	5	24	Red Pine	Trace	Variable		Sapling	
Red Maple	1	Log/XLog	13		Balsam Fir	High	Variable		Sapling	
Sugar Maple	5	Sapling/Pole	4		Northern White Cedar	Trace	Variable		Sapling	
20	6122 - Black Spruce	Poletimber Medium	11.9	90	51-80	N/A	Exclusion from an adjacent timber sale. Stand of sparse black spruce mixed with a few cedar and tamarack. Ground is very wet.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Northern White Cedar	5	Log/Pole	12		Red Maple	Medium		Variable	Sapling	
Black Spruce	88	Pole/Log	9	90	Balsam Fir	Medium		Variable	Sapling	
Red Maple	2	Log/Pole	10		Northern White Cedar	Trace		Variable	Sapling	
Tamarack	5	Pole/Log	9		Black Spruce	Medium		Variable	Sapling	
					Tag Alder	Full		Variable	Tall Shrub	
21	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	5.6	105	1-50	N/A		Stand of lowland species of poor quality. Wet ground. Stand is essentially the headwaters of a small stream that flows East.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Red Maple	20	Pole	8		Balsam Fir	Medium			Variable	Sapling
Balsam Fir	10	Pole/Sapling	7		Black Ash	Low	Variable		Sapling	
Black Spruce	20	Pole	8	105	Sugar Maple	Trace	Variable		Sapling	
Northern White Cedar	20	Log	12		Red Maple	Trace	Variable		Sapling	
Black Ash	10	Pole	6	105	Tag Alder	Full	Variable		Tall Shrub	
Yellow Birch	15	Log	12							
Tamarack	5	Log/Pole	10							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																															
22	4110 - Sugar Maple Association	Sawtimber Well	4.3	98	51-80	N/A	Not a lot of regeneration post cut, mostly sprouts. Needs more time keep monitoring.																																																																															
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23	4119 - Mixed Northern Hardwoods	Sawtimber Poor	13.2	95	1-50	N/A	Stand was shelterwood harvested in the summer of 2020 as part of the Little Ike Sale: 128-16. Shallow soils may cause some windthrow to residual trees due to less protection. 2020 was a good acorn year so I am hopeful for some oak to regenerate within the stand. Regenerating as a very diverse stand. Some oak regeneration taking place.																																																																															
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24	4119 - Mixed Northern Hardwoods	Sawtimber Poor	3.4	95	111-140	N/A	Stand was excluded from summer of 2020 harvest of Little Ike Sale timber sale: 128-16. wet and steep rock.																																																																															
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25	6115 - Lowland Ash	Sapling Poor	6.0	35	1-50	N/A	Very wet stand. A few mature black spruce and cedar exist. Lots of standing dead fir. Black ash saplings now filling up most of the canopy.																																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26 6220 - Alder/willow Nonstocked 15.2 Unspecified No

27 4199 - Other Mixed Upland Deciduous Poletimber Well 15.1 80 81-110 N/A

Mature stand of birch, aspen and spruce growing on a steep hillside. Stand slopes down to drainage below. Trace yellow birch.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole	8		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	15	Log	13		Red Maple	Medium	Variable	Sapling
Balsam Fir	5	Pole	7					
White Spruce	10	Log/Pole	10	77				
Sugar Maple	5	Pole	8					
Paper Birch	30	Pole	9	80				
Bigtooth Aspen	5	Log	13					

28 4134 - Aspen, Spruce/Fir Poletimber Well 48.1 25 Immature N/A

Stand cut in 1999. OI notes state good scarification occurred on the site during the harvest which resulted in good regeneration. Nice regeneration throughout. Moose browse throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Pole/Sapling	6		Balsam Fir	High	Variable	Sapling
Paper Birch	2	Pole	6		Quaking Aspen	Medium	Variable	Sapling
Red Maple	15	Sapling/Pole	4		Yellow Birch	Low	Variable	Sapling
Sugar Maple	2	Pole	6		Black Cherry	Trace	Variable	Sapling
Quaking Aspen	46	Pole/Sapling	5	25	Paper Birch	High	Variable	Sapling
Balsam Fir	25	Pole/Sapling	5		Tag Alder	Trace	5 - 10 feet	Tall Shrub
					Northern White Cedar	Trace	5 - 10 feet	Sapling
					White Pine	Medium	Variable	Sapling
					Red Oak	Trace	5 - 10 feet	Sapling

29 4199 - Other Mixed Upland Deciduous Poletimber Well 36.6 98 81-110 N/A

Long and narrow stand that was left due to terrain, river buffer and stream buffers.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	XLog/Log	18		Sugar Maple	Low	Variable	Sapling
Sugar Maple	20	Log/Pole	10		Red Maple	Low	Variable	Sapling
Yellow Birch	5	Log/Pole	10		Balsam Fir	High	Variable	Sapling
Red Maple	23	Pole/Log	9					
Black Cherry	2	Log/Pole	10					
Paper Birch	29	Log	11	98				
Tamarack	2	Pole/Log	9					
White Spruce	5	Log	13					
Quaking Aspen	5	Log/Pole	10					
Black Spruce	2	Pole/Log	9					
Balsam Fir	5	Pole	6					

30 6220 - Alder/willow Nonstocked 10.4 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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31	4199 - Other Mixed Upland Deciduous	Sawtimber Well	49.7	90	81-110	N/A	steep drainage to cross for access. I was able to get a good vantage point from a rock knob from the adjacent stand to the west.Trace cedar.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		33	Pole	8		Balsam Fir	
White Spruce		2	Log/Pole	10		Red Maple	
Paper Birch		40	Log/Pole	11	90	White Spruce	
Black Cherry		1	Pole	8		Ironwood	
Quaking Aspen		5	Log/XLog	15		Tag Alder	
Bigtooth Aspen		5	Log/XLog	15		Density	
Balsam Fir		5	Pole	9		Avg. Height	
White Pine		2	Log	12		Size	
Red Oak		2	Log/XLog	14			
Sugar Maple		5	Pole	8			

32	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	5.3	4	Immature	N/A	Stand was harvested in the summer of 2020 as part of the Little Ike Sale - 128-16: A small rocky knob was reserved during the sale harvest as the Producer found an active goshawk nest. This small patch is along the access road through the stand. Portions of this stand were excluded from harvest due to a stream and wet soils. (2014)
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		25	Sapling/Pole	4			
Sugar Maple		2	Sapling/Pole	4			
Yellow Birch		2	Log/Pole	11			
Red Maple		1	Sapling/Pole	4			
Red Maple		45	Sapling	1	4		

33	4134 - Aspen, Spruce/Fir	Sapling Well	5.3	4	Immature	N/A	Stand was harvested in the summer of 2020 as part of the Little Ike Sale - 128-16.75% canopy closure.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		48	Sapling	1	4		
Sugar Maple		1	Sapling/Pole	4			
Yellow Birch		1	Log/Pole	11			
Red Maple		25	Sapling	1			
Balsam Fir		25	Sapling/Pole	4			