



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52217

Entry Year 2025

Acreage: 2,426

County Mackinac

Management Area: Bois Blanc Island

Stand Examiner: Tricia St. Pierre

Legal Description:

T39N R01W, Sec 5-8, except a small portion within section 5 (broken out as "lot 10")

T40N R01W, Sec 5

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan. Bois Blanc island is generally managed for its ecological values rather than timber production. Much of this compartment is within a dedicated Natural Area, limiting intrusive use and development. This Natural Area is also valuable for its research potential.

Soil and topography:

The topography is generally flat with minimal undulations. There are occasionally steep slopes along the coast down onto the beach, some drops of 10' or more. The soil types are variable, but are primarily comprised of sandy, gravelly, and cobbly loam, with a small occurrence of Zela muck near Deer Lake.

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

Boblo is unique in its survey. The majority of the compartment is adjacent to state land, however section 8 has a strip of private land separating it from other state forest land. There is also a strip of private land (and lighthouse) on the northern peninsula in section 5.

Unique Natural Features:

High-quality mesic northern forest and boreal forest natural communities occur within the compartment. Bald eagle nests present. Eastern massasauga and EMR protected habitat occur throughout the compartment and other portions of the island. Previously known occurrences and great potential for red-shouldered hawk, loon, and osprey. Calypso orchid, beauty sedge, Douglas hawthorn, Climbing fumitory, limestone oak fern, and Dwarf lake iris potential or known

Archeological, Historical, and Cultural Features:

There are known concerns in the compartment.

Special Management Designations or Considerations:

The majority of compartment 217 is protected by an Eastern Massasauga Rattlesnake Conservation Area, a Dedicated Natural Area, and protected Natural Communities. The dedicated Natural area is protected under Part 351 of NREPA, 'Wilderness and Natural Areas'. EMR protections are under federal Candidate Conservation Agreement with Assurances (EMR CCAA). Natural Community conservation efforts are guided by local Special Conservation Area (SCA) plans.

Watershed and Fisheries Considerations:

Gov't Lots 5-8

This compartment is on the northern portion of Bois Blanc Island. Deer Lake and part of Evans Lake are within this compartment, as well as Lake Huron shoreline. No treatments are planned in this compartment, so Fisheries has no concerns at this time.

Wildlife Habitat Considerations:

This compartment lies on Bois Blanc Island and consists of a mixture of lowland areas and upland hardwoods. This compartment supports a variety of wildlife.

Mineral Resource and Development Concerns and/or Restrictions

Tracts 5 - 8, T39N-R1W, Mackinac County

Surface sediments consist of lacustrine (lake) sand and gravel, some of it is thin to discontinuous over the bedrock. There is insufficient data to determine the glacial drift thickness. The Devonian Bois Blanc Formation subcrops below the glacial drift. The Bois Blanc could be used for stone. A gravel pit is located just to the south and the compartment may have some potential. There is no known oil and gas potential on Bois Blanc Island

Vehicle Access:

Road conditions are poor and more conducive to ATV usage rather than truck. Vehicular access is restricted from the east, with primary access from the south and west. Bob Lo Drive is impassable north of Deer Lake. Central Drive is the most viable access.

Survey Needs:

There exist no pressing survey needs.

Recreational Facilities and Opportunities:

Most existing roads and trails are suitable for ATV traffic. The shorelines have been misused as travel routes. The former lighthouse on the point is a tourist destination.

Fire Protection:

Fire equipment would have a difficult time navigating the roads north of Deer Lake, but otherwise the compartment is relatively accessible by roads and not limited by terrain. Overgrown trails and woody debris (mostly from Beech Bark Disease) have the most potential to limit access.

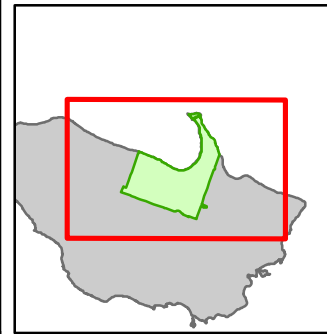
Additional Compartment Information:**The following reports from the Inventory are attached:**

- 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**

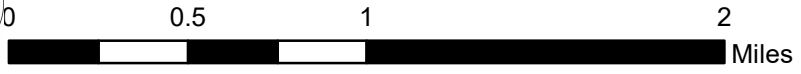
The following information is displayed, where pertinent, on the attached compartment maps:

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

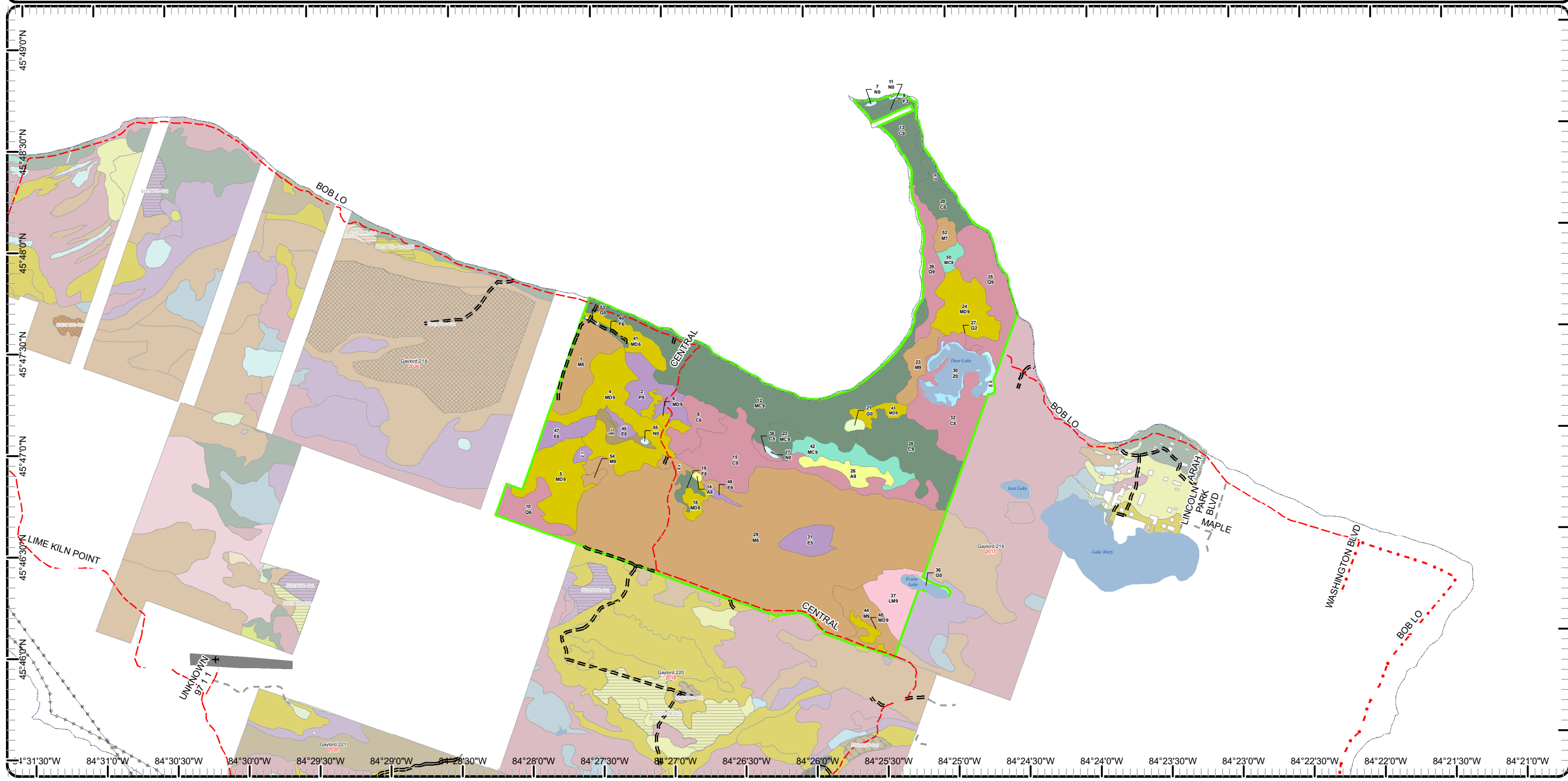
Cover Type & Treatments Map



Compartment: 217
 Bois Blanc Island, Government
 Lots 05-08
 County: Mackinac
 Unit: Gaylord
 Mgmt Area: Bois Blanc Island
 YOE: 2025
 Acres: 2426.4 GIS Calculated
 Examiner: Tricia St. Pierre
 Map Revised: 10/16/2023
 Map Phase: Post-Maps

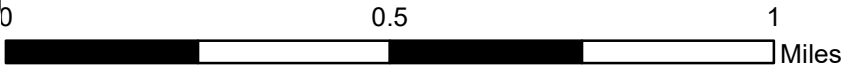
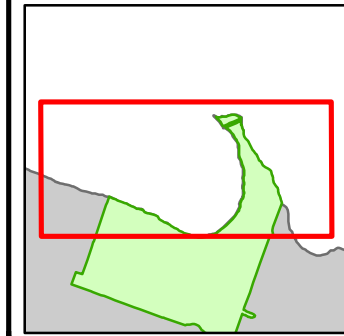


- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Airport
- Intermittent Stream
- Lake/Pond
- Shoreline
- Lakes and Rivers
- Airports
- Compartment Boundary
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 500 - Water
- 623 - Emergent Wetland

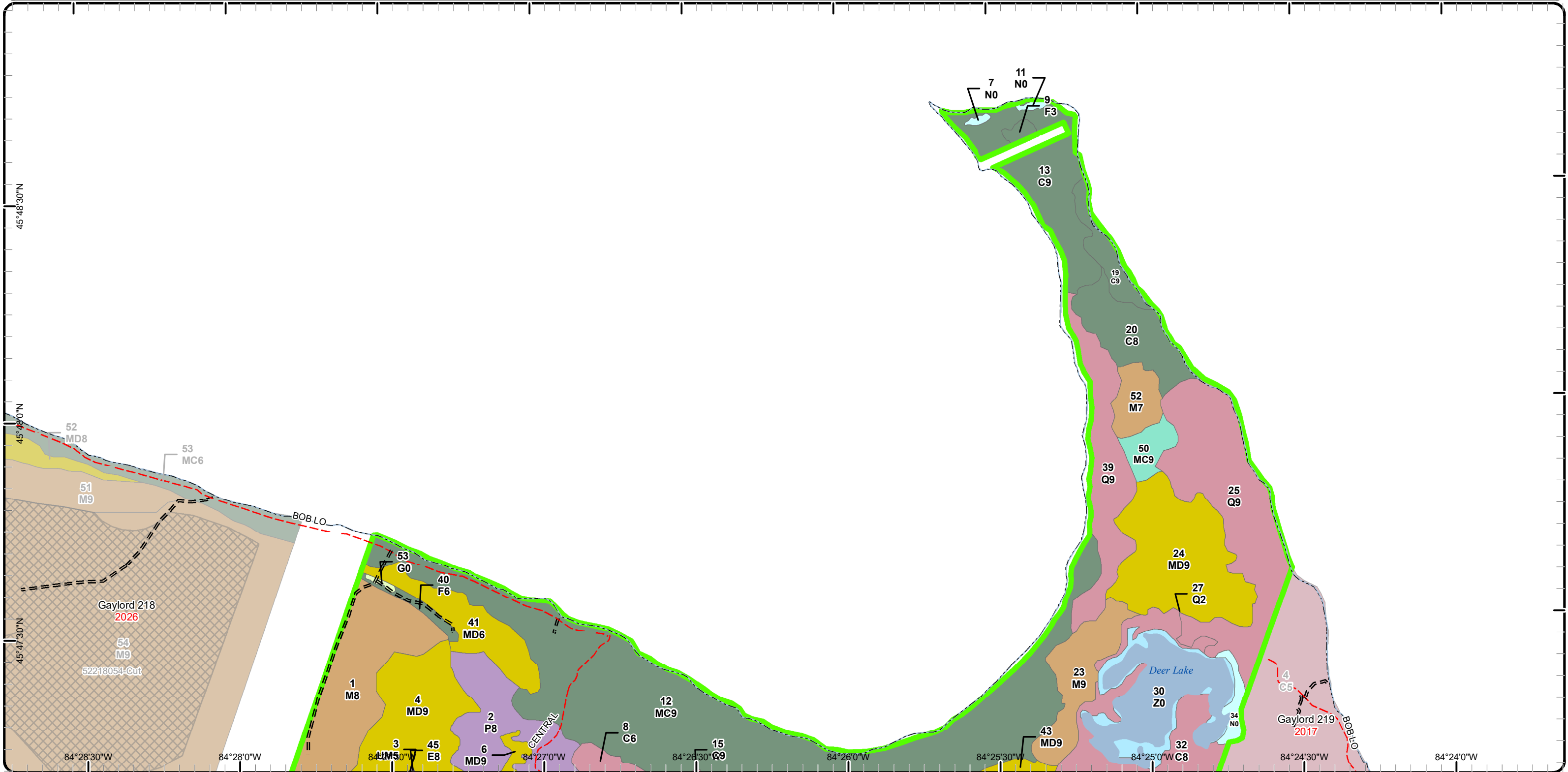


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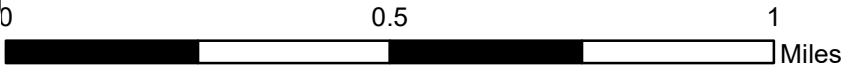


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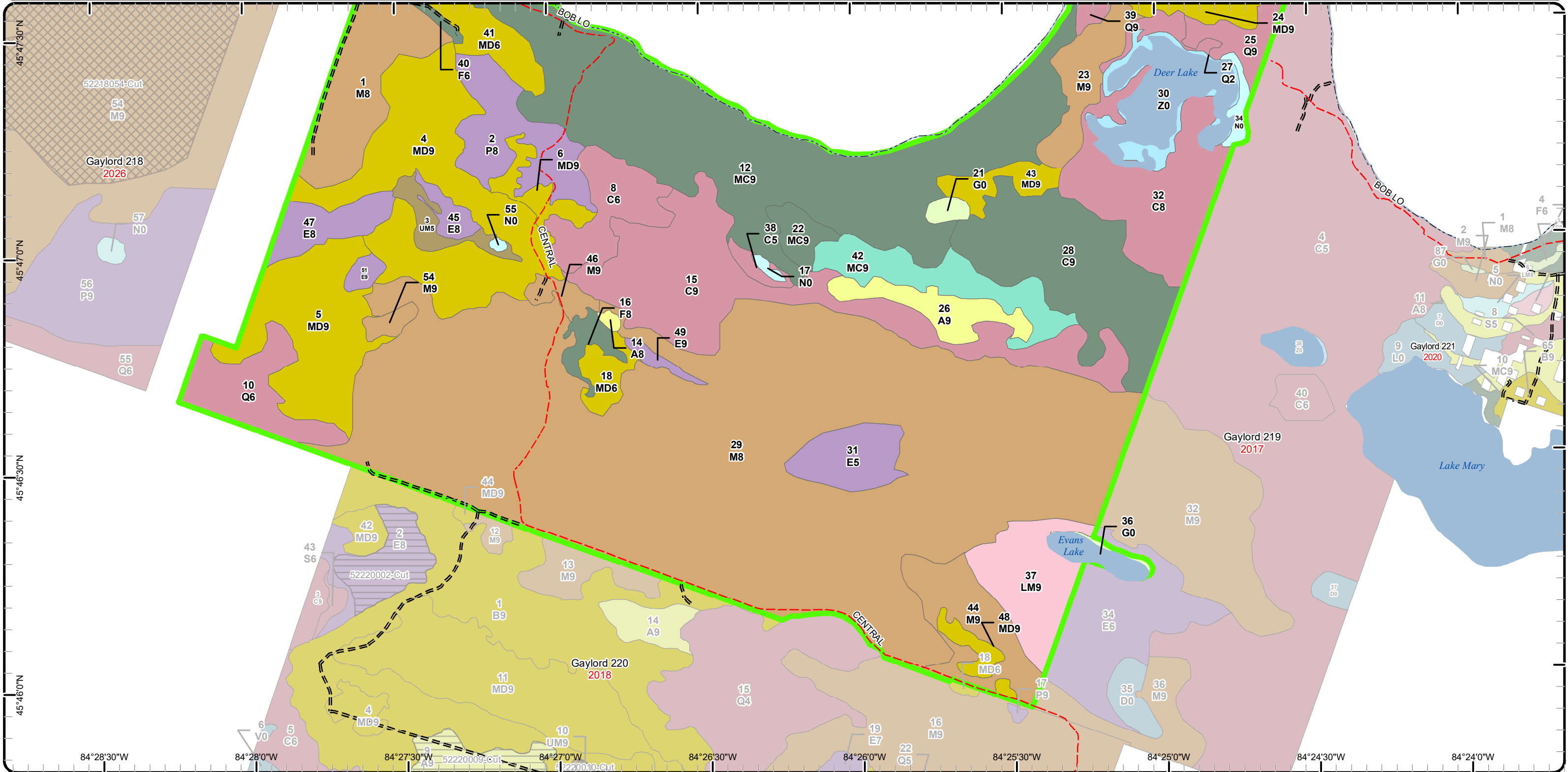


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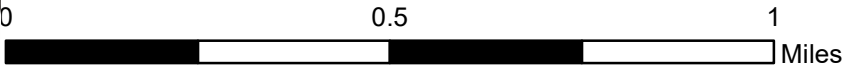


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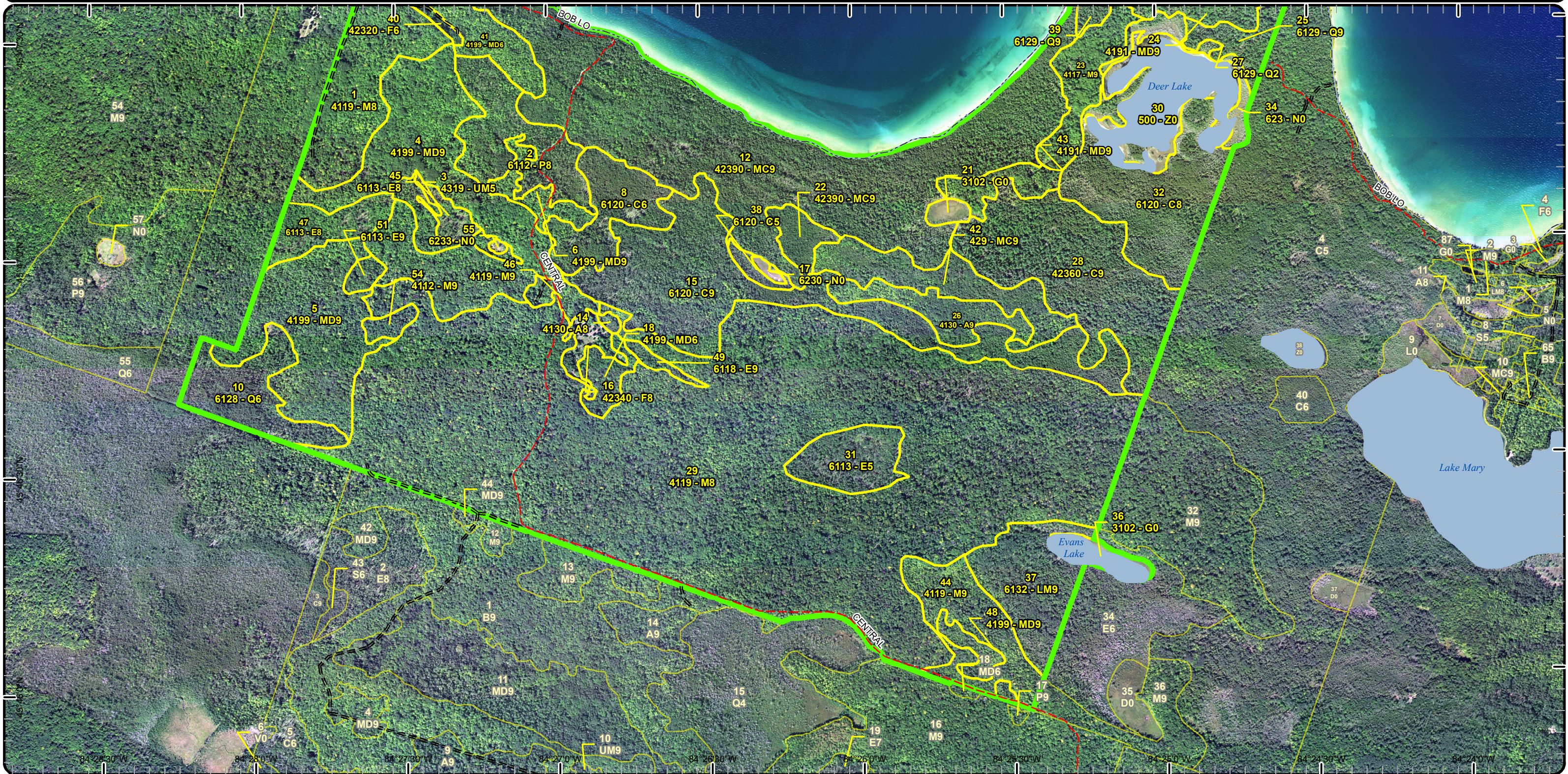
Stand Boundary Map

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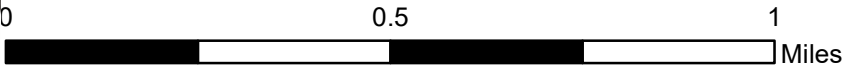
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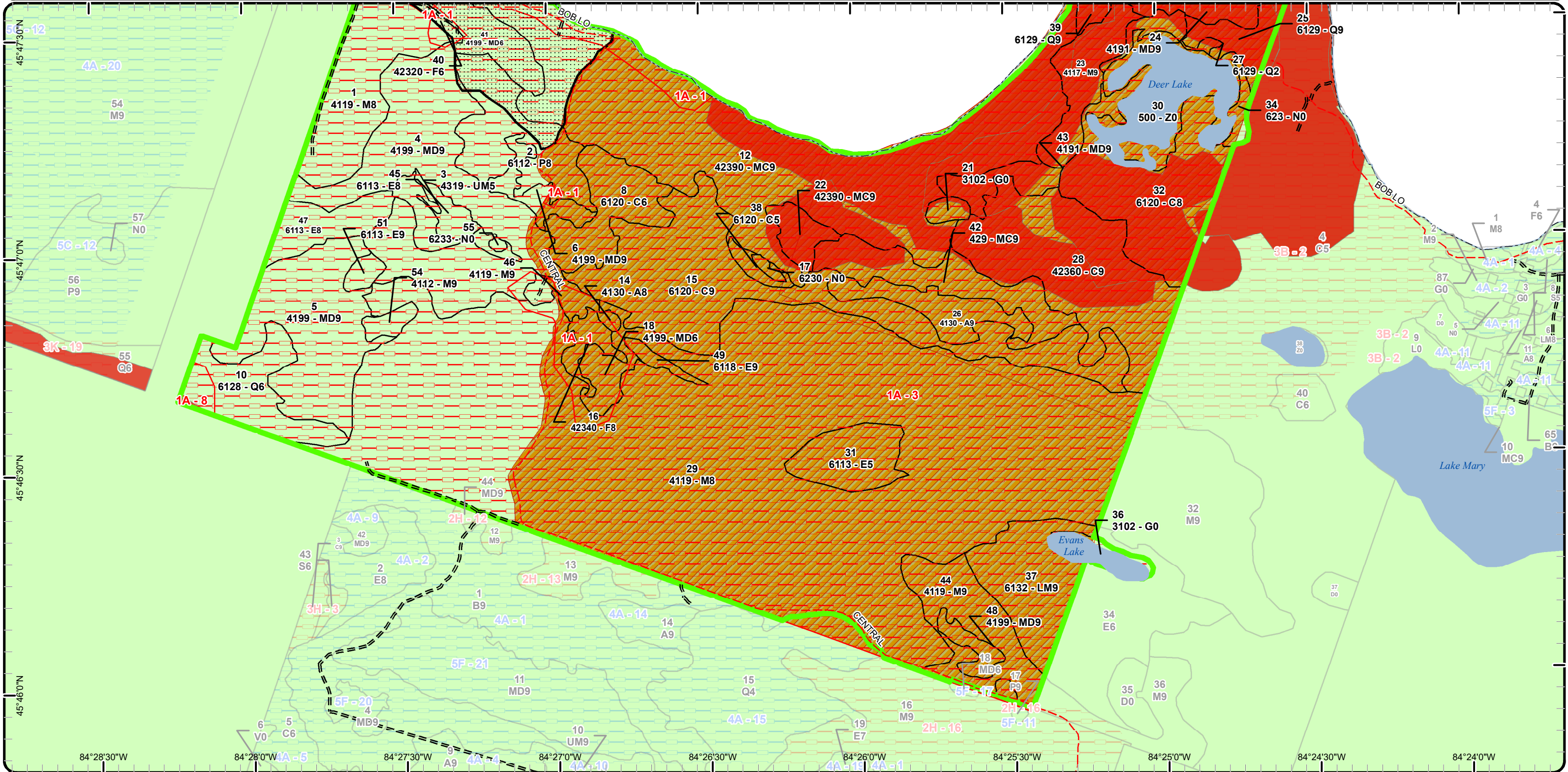


Special Conservation Areas

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 Bois Blanc Island, Government
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- Counties
- DNR - Forest Access Route
- County - Dirt Road (Seasonal)
- Lake/Pond
- Shoreline
- Lakes and Rivers
- Compartment Boundary
- Unavailable
- 1A: Federal/State/Local Law
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Forest Habitat Core Interior
- Natural Areas Legally Dedicated
- Great Lakes Islands





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	0	0	0	0	0	24	1	0	0	0	0	0	0	0	0	0	25
Cedar	0	0	0	0	0	0	0	35	121	122	4	0	98	0	13	0	28	0	420
Herbaceous Openland	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	46	0	0	0	0	0	0	0	0	0	0	46
Lowland Conifers	0	0	0	0	8	0	0	0	39	0	122	0	0	0	0	0	0	0	168
Lowland Deciduous	0	0	0	0	0	0	31	34	0	0	0	0	0	0	0	0	0	0	63
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	46	0	0	0	0	0	0	0	46
Marsh	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	0	0	0	0	0	0	114	13	119	86	0	0	0	0	0	0	0	0	332
Northern Hardwood	0	0	0	0	0	0	5	0	67	820	0	0	0	0	0	0	0	0	892
Upland Conifers	0	0	0	0	0	9	0	0	0	0	322	0	0	0	0	0	0	0	331
Upland Mixed Forest	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	12
Upland Spruce/Fir	0	0	0	0	2	0	9	4	0	0	0	0	0	0	0	0	0	0	15
Water	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Total	77	0	0	0	10	9	9	166	152	347	1028	494	0	98	0	13	0	28	2427



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 217

Total Compartment Acres: 2,426

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

Mgt. Unit

Report 3 -- Treatments

Compartment:

Year of Entry:



S
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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

Total Treatment
Acreage Proposed: 0

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 217

Tricia St. Pierre : Examiner

Year of Entry: 2025

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

1A

25	0	0	25	Aspen	25
421	2	0	419	Cedar	419
11	0	0	11	Herbaceous Openland	11
46	0	0	46	Lowland Aspen/Balsam Poplar	46
168	1	0	167	Lowland Conifers	167
64	0	0	64	Lowland Deciduous	64
45	0	0	45	Lowland Mixed Forest	45
10	0	0	10	Marsh	10
332	0	0	332	Mixed Upland Deciduous	332
892	0	0	892	Northern Hardwood	892
331	0	0	331	Upland Conifers	331
12	0	0	12	Upland Mixed Forest	12
15	0	0	15	Upland Spruce/Fir	15
52	0	0	52	Water	52
2,422	3		2,419	Total Forested Acres	2,419
	0%		100%	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	1A: Federal/State/Local Law	78	3B: Threatened, endangered, and special concern species	3A: Conservation Values incompatible with harvest at this time	1C: Other dept or div proc/practices	5A: Not able to obtain desirable regeneration
Comments: Legally Dedicated Natural Area. https://www.michigan.gov/dnr/places/natural-areas/bois-blanc-island Many sensitive features within this area.							
3	Unavailable	1A: Federal/State/Local Law	2,349	3B: Threatened, endangered, and special concern species	3A: Conservation Values incompatible with harvest at this time	5A: Not able to obtain desirable regeneration	Unspecified
Comments: Legally Dedicated Natural Area. https://www.michigan.gov/dnr/places/natural-areas/bois-blanc-island Many sensitive features within this area.							

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 217

Tricia St. Pierre : Examiner

Year of Entry: 2025

8	Unavailable	1A: Federal/State/Local Law	6	3B: Threatened, endangered, and special concern species	1C: Other dept or div proc/practices	3A: Conservation Values incompatible with harvest at this time	Unspecified
Comments: Central Cedar Swamp SCA. Legally dedicated Natural Area. EMR Conservation area. Potential for protected species.							

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				

**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	Great Lakes Islands	Great Lakes Islands provide significant habitat for numerous species, including many rare plants and animals, several of which are endemic or largely restricted to the Great Lakes region. Due to their isolation, islands provide good examples of many Great Lakes-associated natural communities and ecosystems, and thus have potential to provide insights for understanding the consequences of human disturbance on the increasingly fragmented ecosystems of the mainland.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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	4119 - Mixed Northern Hardwoods	Sawtimber Medium	58.6	80	51-80	N/A	<p>Canopy closure is hovering around 75% in the wake of BBD mortality. Trace quaking aspen, hemlock, white pine, yellow birch, ironwood, and white spruce in canopy. Rare white ash and white cedar in subcanopy. High quality red oak.</p> <p>Ridge along north edge of stand with an increase in basswood and hemlock along the slope. Few sugar maple saplings and poles released from BBD are doing well. Areas with densest beech brush have an increase in striped maple and white spruce saplings. Bigtooth is clonal where present. Trace dead white ash. More striped maple in south than in north. Trace balsam fir (pole) in canopy near Xlog white pine (in north-center).</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Basswood	1	Log/Pole	12		Beech	High		10 - 20 feet	Sapling
Sugar Maple	55	Log/Pole/XLog	14	80	Ironwood	Trace		>20 feet	Sapling
Red Oak	25	Log/XLog	16	80	White Pine	Trace		< 5 feet	Sapling
Paper Birch	5	Log	14		Balsam Fir	Trace		Variable	Sapling
Red Maple	2	Log/Pole/XLog	14		White Spruce	Trace		Variable	Sapling
Bigtooth Aspen	2	Log/XLog	16		Striped Maple	Low		Variable	Sapling
Beech	10	Log/Pole/XLog	14						
2	6112 - Lowland Aspen	Sawtimber Medium	45.7	79	51-80	N/A		<p>North, southwest, and southeast portions are all different. Southwest area is somewhat hummocky lowland pole dominated red maple/quaking aspen and balsam fir dominated with balsam poplar, yellow birch, paper birch, and white cedar. Subcanopy has areas of more advanced balsam fir (midcanopy, >20') on the drier sites, but balsam fir (sap, variable) is high throughout.</p> <p>East is QA dominated with fir and hardwood; larger diameters compared to swampy southwest. Didn't get good eyes on the northern portion, but imagery appears to have an increase in conifer with more hardwood on the edges.</p> <p>Rare multiflora rose (on road edge), tamarack sapling.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Maple	10	Log/Pole	10		Black Spruce	Low	Variable		Sapling
Sugar Maple	2	Pole	6		Striped Maple	Low	Variable		Sapling
White Spruce	1	Log	14		Black Ash	Low	5 - 10 feet		Sapling
Quaking Aspen	54	Log/Pole/XLog	12	79	Balsam Fir	High	Variable		Sapling
Black Spruce	3	Pole/Log	8		Red Maple	Trace	>20 feet		Sapling
Black Ash	2	Pole	6						
Paper Birch	5	Pole	6						
Northern White Cedar	13	Pole/Log	8						
Balsam Fir	10	Pole	6						
3	4319 - Mixed Upland Forest	Poletimber Medium	11.5	66	51-80	N/A	<p>Somewhat significant aspen and fir coarse woody debris, some dead ash standing and on the ground. Mixed canopy, simplified subcanopy; occasional advanced red maple sapling. South-central portion of stand has extremely dense white spruce and balsam fir saplings >15' with scattered log quaking aspen (10-30BA).</p> <p>Trace basswood (pole) and white pine (log) in canopy. Rare paper birch in subcanopy.</p> <p>Relatively dry right now but great potential to hold water.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	35	Pole/Log/Sap	8	66	Striped Maple	Trace		Variable	Sapling
Quaking Aspen	20	Log/Pole/XLog	12		White Pine	Trace		< 5 feet	Sapling
Balsam Fir	29	Pole/Sap/Log	7		White Ash	Trace		>20 feet	Sapling
White Spruce	15	Pole/Log/Sap	8		White Spruce	Medium		Variable	Sapling
Northern White Cedar	1	Log/Pole	10		Balsam Fir	High		Variable	Sapling
					Red Maple	Low		>20 feet	Sapling
					Beech	Trace		Variable	Sapling
4	4199 - Other Mixed Upland Deciduous	Sawtimber Well	118.8	88	81-110	N/A		<p>Stand boundaries were updated to capture higher densities of aspen vs hardwood. Covertypes conversion resulted from M9 to A9. Scattered very large oak. Dead white ash and no seedlings/saplings. Trace white pine in canopy with associated increase in white pine regeneration. Trace white cedar, white spruce, yellow birch, basswood, hemlock, quaking aspen. (Rare hazelnut.)</p> <p>BAs are higher in dense aspen clones.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Paper Birch	10	Log/Pole	12		Ironwood	Trace	>20 feet		Pole
Hemlock	1	XLog/Log	20		White Spruce	Trace	< 5 feet		Sapling
Red Oak	15	Log/XLog/Pole	14		Balsam Fir	Low	Variable		Sapling
Red Maple	20	Log/Pole/XLog	12		Striped Maple	Low	Variable		Sapling
Bigtooth Aspen	37	Log/XLog	16	88	Sugar Maple	Low	>20 feet		Sapling
Sugar Maple	15	Log/Pole	12	88	Beech	Medium	10 - 20 feet		Sapling
Beech	2	Log/XLog/Pole	16		White Pine	Trace	Variable		Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
5	4199 - Other Mixed Upland Deciduous	Sawtimber Well	75.1	68	81-110	N/A	Transitional edges adjacent to lowlands on the north and south perimeters with mixed species. Trace balsam fir, white spruce, hemlock in canopy. Rare yellow birch, hazelnut in subcanopy. Multi-stemmed paper birch and red maple are common in the south; senescence in aspen and birch throughout the stand. Beech brush is variable, medium to full.																																																													
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6	4199 - Other Mixed Upland Deciduous	Sawtimber Well	12.8	79	81-110	N/A	Slight slope to this stand. Observation is an edge call and should be fully inventoried during the next cycle. Increased presence of subcanopy fir as compared to adjacent MD9. Dampness to edges and pockets within stand. Good possibility for cedar to mix in with edges.																																																													
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7	6233 - Wet Meadow	Nonstocked	0.8			No	A few dead spruce saplings																																																													
8	6120 - Lowland Cedar	Poletimber Well	34.9	75	201+	N/A	Dense blowdown on edges and in pockets throughout the stand. East and southern edges are very difficult to enter. Northwest is the best entry point. Edge inventory confirming previous data. Good likelihood for cedar regeneration within pockets of blowdown.																																																													
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9	42330 - Upland Fir	Sapling Well	2.3	34	1-50	N/A	Dense balsam fir (sap) with aspen and cedar overstory (supercanopy?).																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 38.5 84 81-110 N/A

BAs and composition are extremely variable. East and north legs are dominated by varying densities of QA, BAM, WS, RM, and PB; more of a lowland mixed deciduous with conifer (with occasional upland). Trace yellow birch in canopy. Rare red maple, hazelnut, blueberry, yellow birch, cedar, larch, and gooseberry in subcanopy. Scattered dead ash. Sarsaparilla, swamp milkweed, thistle, sweet coltsfoot, equisetum, and dwarf raspberry present in some of the more diverse areas. Areas dominated by cedar contain creeping snowberry, starflower, golden thread, trailing arbutus, labrador tea, blueberry, equisetum, alder, bunchberry, and bladder sedge. Areas heaviest to alder and willow have scattered larch, quaking aspen, and cedar.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Log/Pole/XLog	14		White Spruce	Trace	Variable	Sapling
Tamarack	2	Log/Pole/Sap	13		Bulrush	Trace	Unspecified	Non-Wood
White Spruce	7	Log/Pole	12		Balsam Poplar	Low	Variable	Sapling
Paper Birch	3	Pole/Log/Sap	6		Black Spruce	Trace	Variable	Sapling
Black Spruce	18	Pole/Sap/Log	7		Tamarack	Trace	Variable	Sapling
Balsam Poplar	5	Pole/Log/Sap	8		Willow spp.	Trace	10 - 20 feet	Tall Shrub
Balsam Fir	15	Pole/Sapling	6		Sugar Maple	Trace	>20 feet	Sapling
Northern White Cedar	25	Pole/Sap/Log	9	84	Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	10	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
					Red Osier Dogwood	Trace	< 5 feet	Tall Shrub

11 6233 - Wet Meadow Nonstocked 1.0 Unspecified No

12 42390 - Mixed Non-Pine Upland Conifers Sawtimber Well 271.5 104 141-170 N/A

Every upland conifer species native to Northern Michigan just about.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Log	16		Balsam Fir	Medium	Variable	Sapling
Black Spruce	5	Log/Pole	12		Striped Maple	High	Variable	Tall Shrub
Paper Birch	5	Log	12					
Northern White Cedar	55	Log/XLog/Pole	14	104				
Hemlock	5	Log/Pole	10					
White Pine	15	XLog/Log	18					
Balsam Fir	5	Pole/Log	9					

13 42360 - Upland Cedar Sawtimber Well 44.7 85 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	3	Pole/Log	8		Striped Maple	Low	5 - 10 feet	Tall Shrub
Balsam Fir	2	Pole	7		Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Black Spruce	2	Log	12		Black Spruce	Low	Variable	Sapling
Northern White Cedar	80	Log/Pole	10	85	Balsam Fir	High	Variable	Sapling
White Pine	3	XLog/Log	18					
Hemlock	2	Log	14					
Quaking Aspen	8	Log	12					



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14	4130 - Aspen	Sawtimber Medium	1.4	80	51-80	N/A	50% blow down. Perimeter has dense beech and striped maple (saplings 10-20') regeneration except the southwest having medium balsam fir with striped maple, beech, and advanced sugar maple (>20'). Rare ironwood in subcanopy.																																																																																														
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15	6120 - Lowland Cedar	Sawtimber Well	122.1	92	111-140	N/A	Stand data reflects main west body of stand. Eastern leg was not observed during this inventory cycle. Likely to be hardwood mixed in to east leg. Trace black ash, yellow birch in observed canopy. Rare beech in subcanopy. Dense regenerating white spruce, larch, balsam fir, black spruce, and bam in areas. Few parallel ridges (minor elevation change) contain more red maple and quaking aspen; depressions in between are dominated by cedar with spruce and fir. Despite extremely dense regeneration in areas, there are other areas yet (generally under dense cedar canopy) with little to no regeneration. Wide range of basal area throughout the stand.																																																																																														
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16	42340 - Upland Spruce/Fir	Sawtimber Medium	8.9	50	1-50	N/A	Open and unique island, upland grasses. Larger white spruce and more densely stocked southwest portion of stand. Campsites on the southeast leg and in north tip. Far south leg gives way to more sap/pole sugar maple with an increase in beech saplings. Trace BAM, white pine, red maple, beech, ironwood, serviceberry in canopy. Rare striped maple, black cherry, multiflora rose, ironwood, white pine in subcanopy. Milkweed, field strawberry, raspberry, many grasses, and mullein present. Grouse present at time of inventory.																																																																																														
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17	6230 - Cattail	Nonstocked	1.6	0	Unspecified	No	Trace larch, balsam fir, white cedar, white pine encroaching on edges.																																																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
18	4199 - Other Mixed Upland Deciduous	Poletimber Well	11.8	60	81-110	N/A	Stand is two-aged with Xlog/log sugar maple, paper birch, and bigtooth (110 years old +/-) with 60 year old pole cohort of hardwood and aspen. One dead apple tree.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling	
White Spruce	1	Log/Pole	12		White Spruce	Trace	Variable	Sapling	
Bigtooth Aspen	10	Log/Pole/XLog	14		Serviceberry (Juneberry)	Trace	10 - 20 feet	Sapling	
Ironwood	1	Pole/Log	8		Striped Maple	Trace	Variable	Sapling	
Red Maple	18	Log/Pole	14		Beech	Trace	Variable	Sapling	
Sugar Maple	26	Pole/Log/Sap	7	60	Sugar Maple	Low	>20 feet	Sapling	
Paper Birch	15	Log/Pole/XLog	12		Red Maple	Trace	>20 feet	Sapling	
Quaking Aspen	19	Pole/Log	9	60	Ironwood	Low	Variable	Sapling	
19	42360 - Upland Cedar	Sawtimber Well	12.5	145	171-200	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling	
Balsam Fir	3	Sapling/Pole	4		Striped Maple	Low	Variable	Sapling	
White Pine	5	XLog	20						
Northern White Cedar	85	Log/Pole	12	145					
Quaking Aspen	2	Log	12						
20	42360 - Upland Cedar	Sawtimber Medium	28.3	120	51-80	N/A	Old cedar blow-down. Toadflax. Areas of blow down filling in with balsam fir and striped maple, occasional spruce and cedar.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	2	Log	12		White Pine	Low	Variable	Sapling	
Northern White Cedar	78	Log	14	120	Balsam Fir	Low	Variable	Sapling	
Paper Birch	4	Pole	6		Striped Maple	Low	Variable	Sapling	
Balsam Fir	2	Pole/Sapling	6		Northern White Cedar	Trace	Variable	Pole	
Black Spruce	10	Pole	8		Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub	
Quaking Aspen	2	Log	12						
Sugar Maple	2	Log	12						
21	3102 - Grass	Nonstocked	4.2		Unspecified	No	Very wet.		
22	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	11.3	104	141-170	N/A	Every upland conifer species native to Northern Michigan just about.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling	
Black Spruce	5	Log/Pole	12		Striped Maple	High	Variable	Tall Shrub	
Paper Birch	5	Log	12						
White Pine	15	XLog/Log	18						
Hemlock	5	Log/Pole	10						
Northern White Cedar	55	Log/XLog/Pole	14	104					
Red Pine	10	Log	16						



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23	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	27.8	92	81-110	N/A	White pine concentrated near lake shore and NE corner of stand.																																																																	
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24	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	63.4	90	81-110	N/A	Ferns and sphagnum in the understory; medium fern coverage. low sphagnum.																																																																	
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25	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	80.3	106	171-200	N/A	Lower area along the stand to the southwest; eastern edge slopes down onto the beach. Stand is densely stocked with lots of nice logs, especially cedar.																																																																	
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26	4130 - Aspen	Sawtimber Well	23.6	74	111-140	N/A	BA Swings: 90, 140, 150, 140 = 130 ave. Aspen quickly converting to Maple association. Occasional white ash on edges (Pole/Log/Sap); few Hemlock (Log). Heavier Paper Birch/Sugar Maple (White ash/hemlock, too) in west end.																																																																	
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27	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	7.5	30	Immature	N/A	Super Canopy of a few scattered white pine (XL), white cedar (L), black spruce (L). This stand is regenerating.																																																																																	
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28	42360 - Upland Cedar	Sawtimber Well	98.0	125	201+	N/A	Pockets of supercanopy white pine and hemlock.																																																																																	
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29	4119 - Mixed Northern Hardwoods	Sawtimber Medium	739.2	97	51-80	N/A	Dense beech brush. Beech Bark Disease is advanced. Much of the beech is dead, though there are still plenty alive and some appearing to be resistant. Areas with a lot of coarse woody debris from dead beech, occasional birch or maple. Trace white pine, hemlock. There are a few pockets with nice, fairly dense sugar maple saplings (>20') with minimal beech brush in the subcanopy.																																																																																	
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30	500 - Water	Nonstocked	51.9		Unspecified	No	Deer Lake																																																																																	
31	6113 - Lowland Maple	Poletimber Medium	26.5	65	51-80	N/A	A fine northern hardwood swamp dominated by silver maple with trace amounts of ash, fir, birch, and elm. Lots of coarse woody debris from senesced aspen and fir on the south edge of the stand under residual and localized aspen and fir. Coarse woody debris elsewhere is dominated by dead ash and a few silver maple. Full subcanopy of alder-leaved buckthorn (heavily browsed) under aspen and fir and into the maple swamp in the southern region. Many large, old stumps on the south and east perimeters as well. Three-foot waterline on interior trees. Dead ash is consistently scattered across the stand.																																																																																	
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32	6120 - Lowland Cedar	Sawtimber Medium	76.1	81	1-50	N/A	4-6" of organic matter on top of water; totally saturated stand. Paper birch on edges only.																																																																	
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34	623 - Emergent Wetland	Nonstocked	5.5		Unspecified	No																																																																		
36	3102 - Grass	Nonstocked	10.1		Unspecified	No	Identified as "Evan's Lake". Emergent wetlands with sedges, cattails, and grasses. Wet. Scattered dead black ash, trace red maple.																																																																	
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37	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	45.5	100	81-110	N/A	Areas of dense cedar, scattered dead black ash. Dense hemlock in the east with red maple. Trace sugar maple on edges, trace canopy larch interior, trace white spruce. Rare hemlock, cedar less than 1-foot saplings, often on nurse logs and within jackstrawed areas. Low end of 75 percent canopy closure: scattered open pockets; less dense/smaller diameters, more open in north around G0 and on edges. Areas of cedar/fir blow-down.																																																																	
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38	6120 - Lowland Cedar	Poletimber Medium	4.4	104	81-110	N/A	Very hummocky. Much more larch on east edge adjacent to stand 17, otherwise very much cedar dominated.																																																																	
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39	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	41.6	106	171-200	N/A	Lower area along the stand to the southwest (pre-inventory stand #12); western edge slopes down onto the beach. Stand is densely stocked with lots of nice logs, especially cedar. Lots of large coarse woody debris. Paper birch is starting to fall out.																																																																
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40	42320 - Upland Spruce	Poletimber Well	3.9	66	81-110	N/A	Trace cedar, basswood in the canopy. Rare ash, beech, white pine in the subcanopy. Stand is an overgrown apple orchard. ORV trail runs through/along middle of stand. Trace mullein in blow-down gaps; scattered dead ash. Sugar maple inclusion with ironwood in southeast; increase in white pine. Not much of a subcanopy; fir is midcanopy.																																																																
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41	4199 - Other Mixed Upland Deciduous	Poletimber Well	26.8	66	51-80	N/A	Trace ironwood, basswood, white pine, and hemlock in canopy. Rare bracken fern, stiff clubmoss, red maple, and striped maple in subcanopy. Trace dead white ash. Scattered paper birch, quaking aspen mortality. Trace sarsaparilly, false lily of the valley. Very busy golden crowned kinglets within this stand.																																																																
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42	429 - Mixed Upland Conifers	Sawtimber Well	39.1	104	111-140	N/A	Transitional mix of species.																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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43 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 13.8 99 111-140 N/A Maple dominated ridge, some conifer still mixed in

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	XLog/Log	18		Striped Maple	Low	Variable	Tall Shrub
Northern White Cedar	10	Log/Pole	12		Balsam Fir	Medium	Variable	Sapling
Red Pine	10	Log	16					
Sugar Maple	55	Log/Pole/XLog	14	99				
Hemlock	5	Log/Pole	10					
Paper Birch	5	Log	12					

44 4119 - Mixed Northern Hardwoods Sawtimber Well 40.0 97 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	2	XLog/Log/Pole	20		Striped Maple	Low	10 - 20 feet	Sapling
Bigtooth Aspen	10	Log/XLog	16		Beech	Full	10 - 20 feet	Sapling
Paper Birch	25	Log/Pole	12		Balsam Fir	Trace	Variable	Sapling
Ironwood	1	Pole	6		Sugar Maple	Medium	>20 feet	Sapling
Sugar Maple	41	Pole/Log/XLog	8	97				
Yellow Birch	3	Pole/Log	8					
Beech	15	Log/XLog	14					
Red Maple	3	Log	10					

Areas of very nice developing sugar maple poles, densest among log PB/BE/BTA. Scattered hemlock, yellow birch, red maple in areas. Trace basswood in northwest. Rare white spruce in subcanopy. Northern tip adjacent to stand 37 is a small damp draw with quaking aspen, cedar, white spruce, and sugar maple; increased basswood and striped maple presence; decrease in beech saplings. Dense beech brush; a lot of mortality in canopy beech (including snap), decreased from 30% beech in previous inventory to 15% current live occupation in canopy.

45 6113 - Lowland Maple Sawtimber Medium 7.4 74 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	2	Pole/Sapling	6		Tag Alder	Trace	5 - 10 feet	Tall Shrub
Balsam Fir	1	Pole/Sapling	7		White Spruce	Trace	< 5 feet	Sapling
Red Maple	10	Pole/Log/Sap	8		Willow spp.	Trace	10 - 20 feet	Sapling
Quaking Aspen	27	Log/XLog	16		Alder Leaved Buckthorn	Low	< 5 feet	Tall Shrub
Silver Maple	60	Log/Pole	10	74	Balsam Poplar	Low	Variable	Sapling
					Balsam Fir	Low	Variable	Sapling

Northern hardwood swamp, seasonally inundated. Trace white spruce in canopy. Rare white pine in subcanopy. Dead ash concentrated in the south with scattered BAM, ws, bf saplings.

46 4119 - Mixed Northern Hardwoods Sawtimber Well 7.9 88 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	30	Log/Pole/XLog	10	88	Beech	Low	Variable	Sapling
Paper Birch	15	Log/XLog/Pole	14		Sugar Maple	Medium	>20 feet	Sapling
Bigtooth Aspen	8	XLog/Log	18		Red Maple	Trace	>20 feet	Sapling
Red Maple	35	Log/Pole	12	88	Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	2	Log/Pole	12		Ironwood	Trace	5 - 10 feet	Sapling
Balsam Fir	10	Pole/Log	8					

Trace white spruce, beech, red oak, ironwood in canopy. Decent amount of nice quality sugar maple poles/saps (4-6") in pockets. Subcanopy sugar maple is >10'. Fairly simple subcanopy, lacking diversity. Scattered beech saplings in clumps within canopy gaps. Beech in canopy (trace) is west of the road. Golden crowned kinglets present.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
47	6113 - Lowland Maple	Sawtimber Medium	21.3	74	51-80	N/A	Trace sugar maple (on edge), yellow birch in canopy. Rare grape, willow, black spruce, bulrush in subcanopy. Dead ash, scattered. Bladder sedge present. Northern Hardwood Swamp. Most conifer has established on tip-up mounds above flooded floor. Good amount of coarse woody debris, primarily senesced aspen and dead ash, few elm.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Silver Maple		70	Log/Pole/XLog	10	74	Red Maple		
Red Maple		25	Log/Pole/Sap	10		American Elm		
Quaking Aspen		5	Log/XLog	16		White Spruce		
						Balsam Poplar		
						Silver Maple		
48	4199 - Other Mixed Upland Deciduous	Sawtimber Well	9.1	97	51-80	N/A	Dead black ash in northwest. Areas retain water seasonally. More balsam fir in canopy in southern island. Rare elm, hemlock, white ash, white cedar in canopy. Rare larch, red maple in subcanopy.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		35	Pole/Log	8		Sugar Maple		
Yellow Birch		5	Pole/Log	8		Balsam Fir		
Quaking Aspen		35	XLog/Log	18	97	Striped Maple		
Paper Birch		7	Log/Pole	12		Beech		
Balsam Fir		10	Pole/Log	8				
Sugar Maple		5	Pole/Sap/Log	8				
Basswood		3	Log	14				
49	6118 - Lowland Deciduous with Cedar	Sawtimber Well	3.9	69	51-80	N/A	Stand is a little swale with varying degrees of saturation (resulting in varying compositions). Trace hemlock, basswood, paper birch in canopy. Rare paper birch in subcanopy. From west to east, stand is dominated by fir and quaking aspen, then cedar, qa, bam, spruce, then more upland fir and aspen, next a sugar maple/balsam fir lightly more upland, then to damp qa with fir subcanopy, and finally a mix of somewhat upland cedar and oak with trace basswood, hemlock. West end is much more damp than east.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		25	Log/Pole/Sap	10		White Spruce		
Red Oak		2	XLog/Log	20		Sugar Maple		
Balsam Fir		1	Pole/Log/Sap	7		Balsam Fir		
Balsam Poplar		5	Pole/Log	8		Willow spp.		
White Spruce		2	Log/Pole	10		Striped Maple		
Sugar Maple		10	Log/Pole	12		Ironwood		
Quaking Aspen		55	Log/XLog/Pole	14	69	Beech		
						White Ash		
50	429 - Mixed Upland Conifers	Sawtimber Well	9.3	46	81-110	N/A	Ferns and sphagnum in the understory; medium fern coverage. low sphagnum. Dominated more by conifer species than hardwood.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		10	Log	12		Striped Maple		
Black Spruce		10	Log	14		Black Spruce		
Sugar Maple		15	Log/XLog	15	90	White Pine		
Red Maple		5	Log/XLog	14		Balsam Fir		
Paper Birch		10	Log	13				
Balsam Fir		35	Pole	6	46			
White Pine		15	XLog/Log	18				



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51	6113 - Lowland Maple	Sawtimber Well	4.5	74	51-80	N/A	Seasonally wet, currently damp. Midcanopy balsam fir with a few saplings <10'. Rare serviceberry in subcanopy.																																																							
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52	4119 - Mixed Northern Hardwoods	Sawtimber Poor	12.9	90	1-50	N/A	Very nice mix of white pine spruce and fir regen. Small pole sized striped maple in canopy. Lots of blow down.																																																							
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53	3102 - Grass	Nonstocked	0.7	0	Unspecified	No	ORV trail through stand. Mullein, milkweed present. Spruce and fir are encroaching; spotted knapweed and multiflora rose are just getting established.																																																							
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54	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.2	68	51-80	N/A	Aspen is falling out, resulting in a good amount of coarse woody debris. Ash and birch add to the woody debris, occasionally red maple, too. Trace sugar maple, hemlock, yellow birch, elm, and beech in canopy. Rare yellow birch in subcanopy. Soils are moist, but no standing water. Likely seasonally wet. Fairly distinct drainage in the east half. Good amount of pole red maple present, but beech dominates the sapling subcanopy, and thus the future of the stand.																																																							
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55	6233 - Wet Meadow	Nonstocked	0.8	0	Unspecified	No	Seasonally inundated. Ash, now dead, used to occupy much of the canopy. Scattered red/silver maple. Blue flag iris (medium density, multiple clumps) present.																																																							
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