



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52218

Entry Year 2026

Acreage: 2,370

County Mackinac

Management Area: Bois Blanc Island

Stand Examiner: Tricia St. Pierre

Legal Description:

T39-40N R1-2W, Gov't Lots 9, 10, 11, and 12 EXCEPT private parcels

Identified Planning Goals:

There are no specific planning goals within the Great Lakes Islands, except to manage according to resource readiness, availability, and access. This compartment, as with many on Bois Blanc, has many Natural Features that define what forest practices can occur in certain areas.

Soil and topography:

This compartment has one land type association, Mackinac breccia, a non-indurated breccia (as compared to the highly erosion-resistant indurated breccia), which permitted glacial movement and lakes to flatten out the island, through erosion, to form what is now a much flatter and lower elevation. The limestone bedrock has supported the predominance of lowland cedar associations throughout the landscape in the lower elevations. As such, the topography is generally flat with evidence of higher shorelines from when glacial lakes receded.

Habitat types are quite variable between the lowlands and uplands of the compartment, dominated by AFOAs (supporting much of the hardwood in the compartment) and unclassified lowland types (heavily populated by black spruce and cedar). PARVAa and AFPo/AFOAs are secondary, supporting lesser quality red maple, mixed aspen, and mixed conifer (particularly black spruce and balsam fir). ATFD (sugar maple, hemlock, beech supportive) and PARV (low nutrient; white pine and red maple supportive) play smaller roles in this compartment.

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

This compartment consists of four blocks of (mostly) solid state-ownership separated by lengthy private parcels. The far west block has more variable edges, confronting a larger number of private owners than the other blocks. The north edge of these blocks is defined by the shoreline of the island; the eastern-most block is met by Stateland to the east, and there are other blocks of Stateland joining some of the south edges of these blocks.

Unique Natural Features:

High quality wooded dune and swale complex in the northwestern portion of compartment and rich conifer swamp in southeastern portion of compartment. Coastal fen in northwestern portion of compartment along shoreline. Compartment occurs within Bois Blanc Island PLU.

There are numerous accounts of rare plants documented on the island and the potential exists for these species to persist. Special attention should be taken in surveying for the following: dwarf lake iris, butterwort, limestone oak fern, calypso orchid, climbing fumitory, beauty sedge, prairie indian plantain, ram's head orchid, and douglass hawthorn. Known occurrences and potential for the following rare animals exist within this compartment also: massasauga, hines emerald dragonfly, bald eagle, red-shouldered hawk, and osprey.

Archeological, Historical, and Cultural Features:

There are known and suspected Archeological, Historical, and Cultural Features within this compartment and throughout the Island as a whole.

Special Management Designations or Considerations:

Beech scale, and the inexorable snap, is of major concern throughout the island's hardwood forests. Stands dominated by beech and beech brush will be an interesting study for the future of these forest types. Deer seem to have negatively affected the regeneration of certain species, particularly cedar and sugar maple, and pose threats to successful (desired) regeneration in both managed and non-managed stands.

Access and T&E/Rare species are the major limiting factors for management activities. Careful assessment should be made in proposed treatments and access routes to ensure that no damage comes to these unique communities of plants and animals. Furthermore, portage from the island to the mainland poses its own problems with weather and seasonally limited transportation.

The majority of this compartment has recently been inducted into a statewide Eastern Massasauga Management Area, intent on maintaining critical Eastern Massasauga Rattlesnake (EMR) habitat.

Watershed and Fisheries Considerations:

NLHMU.

Fisheries Concerns: None.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

French Claims 9-12, Bois Blanc Island, Mackinac County

Two known, active sand & gravel pits exist on Bois Blanc Island; both are State-owned. There is a premium on sand & gravel on the island, and there is limited potential for additional development. Furthermore, bedrock is near the surface across much of the island. No known past exploration and testing for hydrocarbons has occurred on the island and no production. There has been no recent well permit activity or leasing activity involving State-owned mineral rights (other than for sand & gravel). There is no known potential for economic production of metallic minerals on the island.

Vehicle Access:

Vehicular access is poor to the interior of this compartment, with very few trails (two- and single-tracks) therein. The western-most edge of the compartment and the north shore are accessible by most two-wheel drive vehicles and are maintained by the island's community. Roads coming from the east are seasonally impassable, one of the roads was completely washed out and not yet repaired.

Survey Needs:

The need to establish survey corners is dependent on management activity and land transactions. As the State is actively trying to consolidate and homogenize ownership blocks, surveys will only be necessary on the parcels where land swaps/disposal/acquisitions are not imminent or foreseeable, and in the instance that commercial harvests become feasible on the island.

Recreational Facilities and Opportunities:

There exists a rudimentary campground in the northwest corner of this compartment that continues along the shoreline to the west, with few undeveloped sites. There is a parking area for recreational use at the end of Bible Road. Bob Lo Drive, along the north shore, is used mostly by seasonal 4-wheeler traffic, though there are residents (permanent and seasonal) that utilize the road for access by POVs.

The rocky shoreline is abused by 4-wheeler traffic despite postings to keep off.

Fire Protection:

There is a Volunteer Fire Department on the Island. Additional resources will need to come from the ferry in Cheboygan, making for a large lag in response time. Vehicular access to internal stands within this compartment is quite limited. There are old ice roads in the south that could be of potential use, but in general, roads are sparse and two-tracks are overgrown. The threat of phragmites on the shorelines and internal swamps might pose fire threats in the future; rapid response to developing colonies of phragmites will be essential for control of the invasive. Dead down ash and beech and dense balsam fir saplings, live and dead, increase the threat of wildfire. Climatological changes like warming and drying patterns may also increase the potential for increased fire activity within the uplands and lowlands alike.

On the bright side, water access and abundance are pretty good on the island.

Additional Compartment Information:

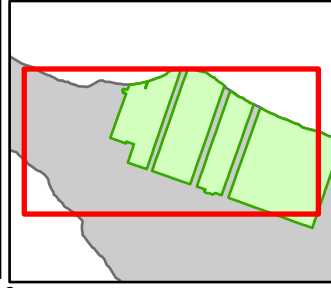
The following reports from the Inventory are attached:

- 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

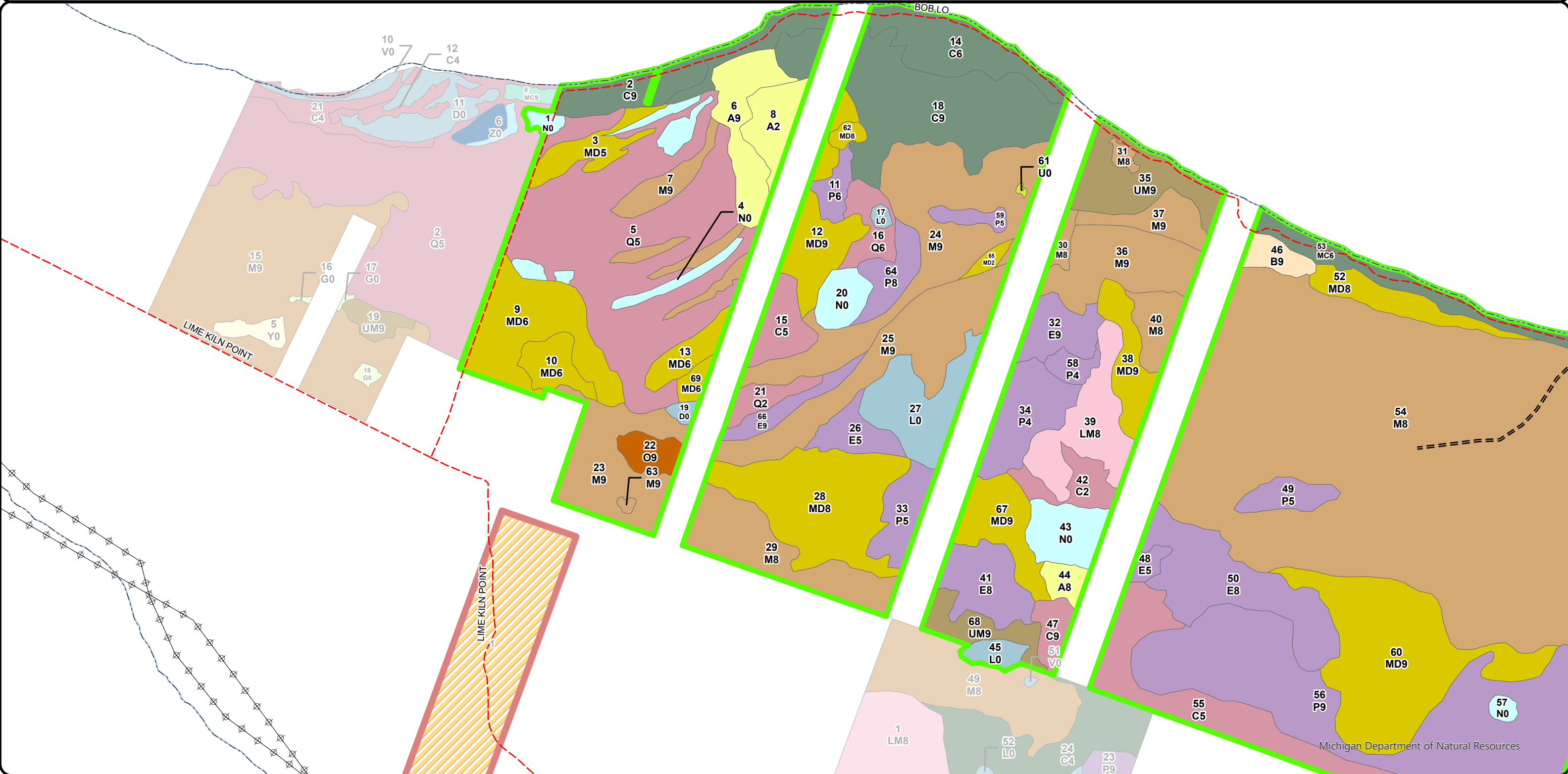


Compartment: 52218
 T39-40N R1-2W, Gov't Lots 9, 10, 11, and 12 EXCEPT private parcels
 County: Mackinac
 Unit: Gaylord
 Mgmt Area: Bois Blanc Island
 YOE: 2026
 Acres: 2370.1 GIS Calculated
 Examiner: Tricia St. Pierre
 Map Revised: 05/13/2024
 Map Phase: Web - Post 1

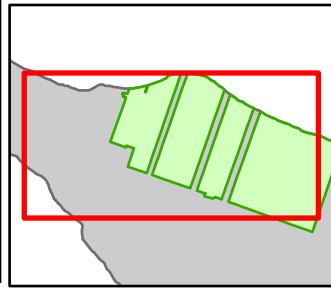
- === DNR - Forest Access Route
- - - County - Dirt Road (Seasonal)
- Lake/Pond
- Shoreline
- Lakes and Rivers
- ⊕ ⊕ Powerline

- ▭ Compartment Boundary
- ▭ Counties
- ▭ 411 - Northern Hardwood
- ▭ 412 - Oak Types
- ▭ 413 - Aspen Types
- ▭ 414 - Other Upland Deciduous

- ▭ 419 - Mixed Upland Deciduous
- ▭ 423 - Other Upland Conifers
- ▭ 430 - Upland Mixed Forest
- ▭ 611 - Lowland Deciduous Forest
- ▭ 612 - Lowland Coniferous Forest
- ▭ 613 - Lowland Mixed Forest
- ▭ 330 - Low Density Trees
- ▭ 622 - Lowland Shrub
- ▭ 623 - Emergent Wetland



Stand Boundary Map



0.5

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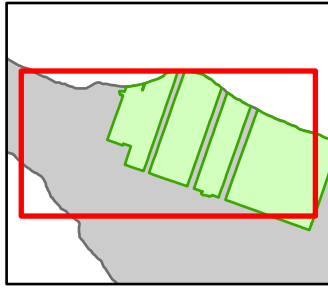
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- State Forests



**Special Conservation Areas
& Site Conditions Map**

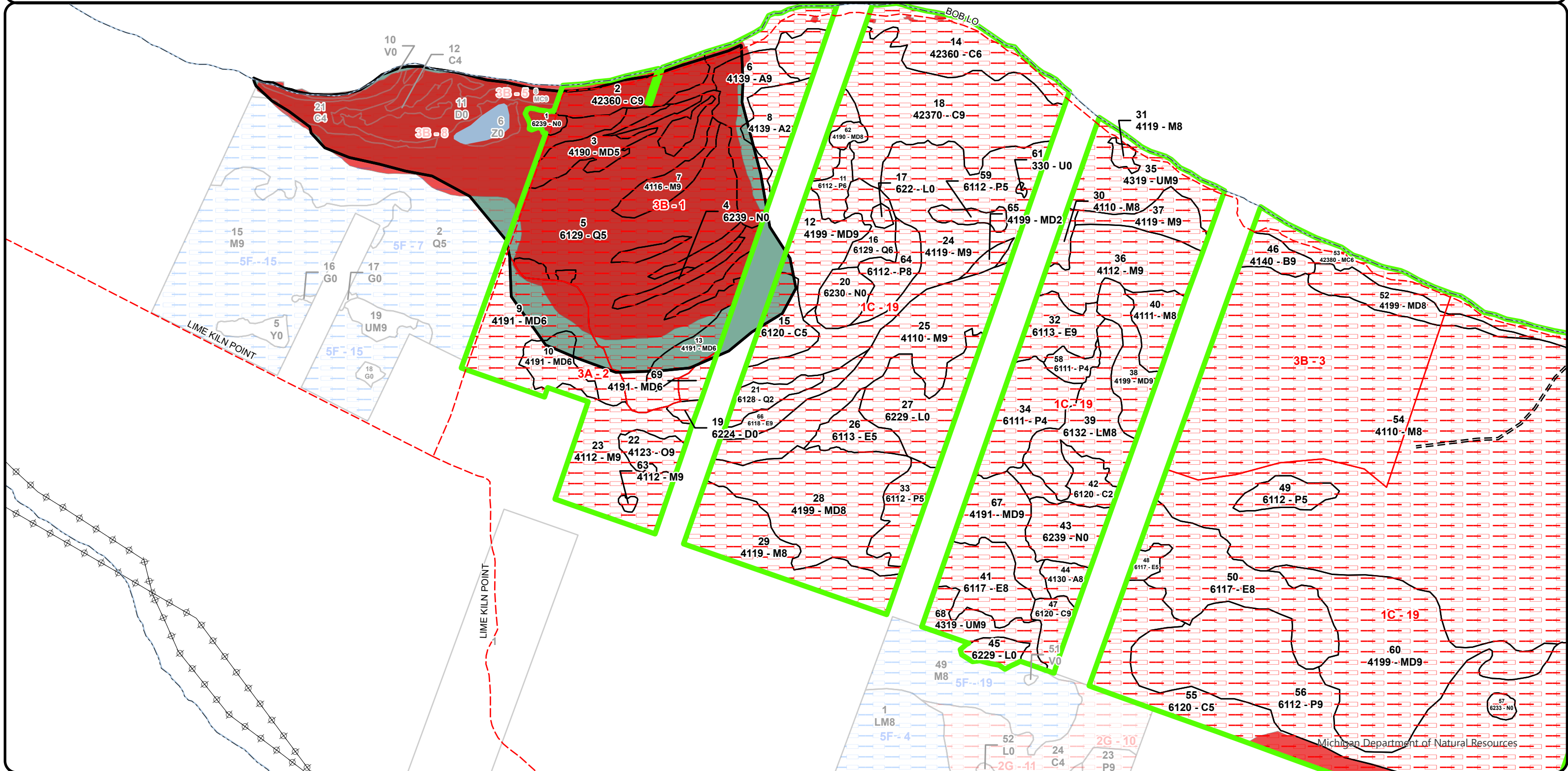
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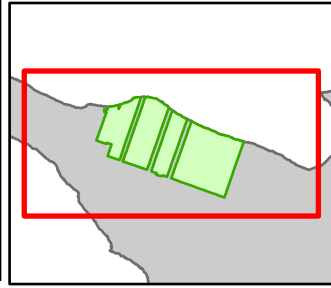
0 0.5 Miles

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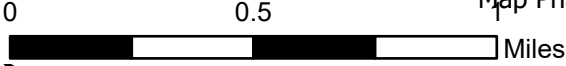
- ▭ SCA
- ▭ Unavailable
- 1C: Other dept or div proc/practices
- 3A: Conservation Values incompatible with harvest at this time
- ▭ Stand Boundaries
- ▭ Ecological Reference Areas
- ▭ Vernal Pool



Cover Type & Treatments Map



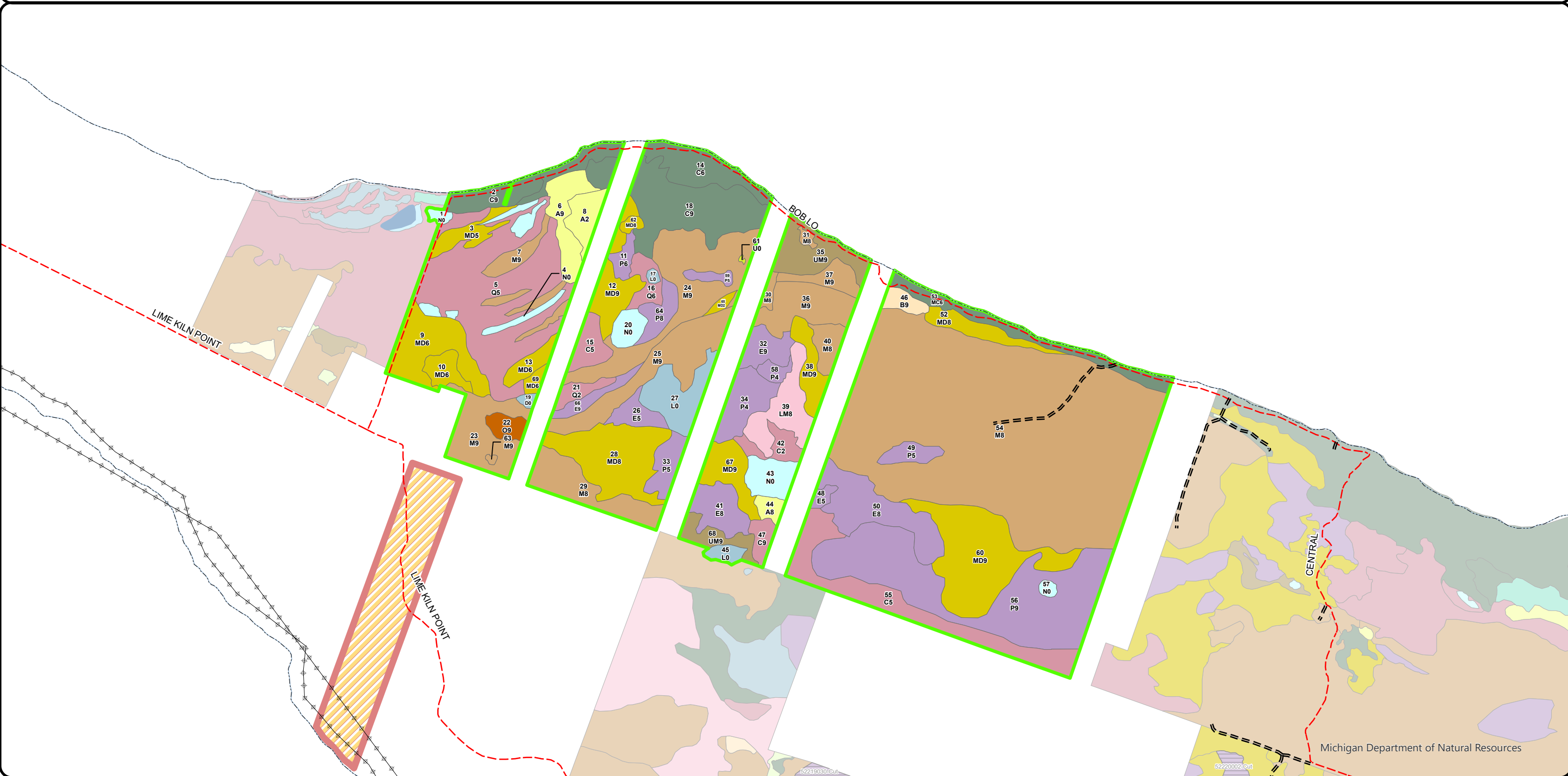
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Age Class

	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	17	0	0	0	0	0	0	28	0	7	0	0	0	0	0	52
Cedar	0	0	0	14	0	0	0	0	0	0	72	0	111	0	0	0	0	74	271
Low-Density Trees	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lowland Aspen/Balsam Poplar	0	0	0	28	0	0	6	5	167	22	28	0	0	0	0	0	0	0	256
Lowland Conifers	0	0	0	0	9	12	0	0	0	0	0	0	0	0	0	0	0	156	177
Lowland Deciduous	0	0	0	0	0	0	0	0	0	124	0	0	0	0	0	0	0	0	124
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	35
Lowland Shrub	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Marsh	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Mixed Upland Deciduous	0	0	3	0	0	0	0	0	0	102	16	200	32	0	0	0	0	0	352
Northern Hardwood	0	0	0	0	0	0	0	0	0	111	104	668	15	0	0	0	4	1	903
Oak	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9
Paper Birch	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	9
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	36
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	16	33	0	0	0	0	0	0	0	49
Total	98	0	3	59	9	12	6	5	176	375	317	912	165	0	0	0	4	231	2371



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 218

Total Compartment Acres: 2,370

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



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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

Tricia St. Pierre : Examiner

Compartment: 218

Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	3A	3B
		With Condition	Not Available			
52	0	0	52	Aspen		45
271	0	0	271	Cedar		45
0	0	0	0	Low-Density Trees		
256	0	0	256	Lowland Aspen/Balsam Poplar		
177	0	0	177	Lowland Conifers		156
124	0	0	124	Lowland Deciduous		
35	0	0	35	Lowland Mixed Forest		
42	0	0	42	Lowland Shrub		
54	0	0	54	Marsh		20
353	0	0	353	Mixed Upland Deciduous	66	43
902	0	0	902	Northern Hardwood	46	199
9	0	0	9	Oak	9	
9	0	0	9	Paper Birch		9
2	0	0	2	Treed Bog	2	
36	0	0	36	Upland Conifers		17
49	0	0	49	Upland Mixed Forest		
2,370			2,370	Total Forested Acres	123	534
	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	3B: Threatened, endangered, and special concern species	318	1C: Other dept or div proc/practices	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
Comments:							
This area contains a Wooded Dune and Swale Complex natural community. Potential for other T&E species as well. Historical and Archaeological concerns.							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 218
Year of Entry: 2026

2	Unavailable	3A: Conservation Values incompatible with harvest at this time	124	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
Comments: T&E and HAL potential.							
3	Unavailable	3B: Threatened, endangered, and special concern species	217	3K: Rare or unique landforms	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
Comments: T&E, Historical and Archaeological concerns.							
19	Unavailable	1C: Other dept or div proc/practices	1,712	3B: Threatened, endangered, and special concern species	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
Comments: The vast majority of the identified area is within the EMR Management Area. Additionally, there's the Central Cedar Swamp SCA and T&E concerns.							

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	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.
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	6239 - Mixed Emergent Wetland	Nonstocked	3.3		Unspecified	No	Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.
2	42360 - Upland Cedar	Sawtimber Well	21.5	94	111-140	N/A	Stand contains campsites. Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.
3	4190 - Mixed Upland Deciduous with Cedar	Poletimber Medium	15.9	94	81-110	N/A	Dune and swale complex. Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.
4	6239 - Mixed Emergent Wetland	Nonstocked	17.1		Unspecified	No	Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.
5	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	155.8	94	Unspecified	N/A	Old shoreline; swale complex with very little variation in topography the upland and lowland. Dune and swale complex. Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.
6	4139 - Aspen, Mixed Deciduous	Sawtimber Well	28.1	90	Unspecified	N/A	Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.
7	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	24.3	84	81-110	N/A	Appears to be a mix of hardwood raised above the swale complex. Dune and swale complex. Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.
8	4139 - Aspen, Mixed Deciduous	Sapling Medium	16.8	25	1-50	N/A	Clearcut; heavy browsing. Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.
9	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	49.3	85	81-110	N/A	Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.
10	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.5	85	51-80	N/A	Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.
11	6112 - Lowland Aspen	Poletimber Well	7.7	85	81-110	N/A	A lot of coarse woody debris. One red berried elder growing on top of a root ball, about 5 feet up. Western edge is a little more uplandy with larger diameters.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	80	Pole/Log/XLog	8	85
Red Maple	1	Log/Pole	10	
Balsam Poplar	2	Pole/Log	8	
Northern White Cedar	5	Log/Pole	12	
Yellow Birch	10	Pole/Log/Sap	8	
Paper Birch	2	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Trace	Variable	Sapling
Northern White Cedar	Medium	Variable	Sapling
Balsam Poplar	Trace	< 5 feet	Sapling
Balsam Fir	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12	4199 - Other Mixed Upland Deciduous	Sawtimber Well	28.5	111	81-110	N/A	<p>Trace white spruce, white pine in canopy. Rare hemlock in the subcanopy. Decent advanced sugar maple subcanopy - nice development, good form.</p> <p>Northern leg is sugar maple dominated with dead white ash and quaking aspen; trace beech and red oak. Beech subcanopy present here but lacking in the oak dominated main body.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Basswood		1	Log/XLog	14		Striped Maple		Trace	Variable	Sapling	
Northern White Cedar		2	Log/Pole	12		Balsam Fir		Trace	Variable	Sapling	
Quaking Aspen		1	Log/XLog	16		Sugar Maple		Low	>20 feet	Sapling	
Bigtooth Aspen		5	XLog/Log	18		Beech		Trace	Variable	Sapling	
Paper Birch		5	Log/Pole	12		White Spruce		Trace	Variable	Sapling	
Red Maple		1	Log/Pole	12							
Red Oak		55	Log/XLog	16	111						
Sugar Maple		30	Log/Pole	12							

13	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	11.3	85	81-110	N/A	Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.
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14	42360 - Upland Cedar	Poletimber Well	50.9	94	81-110	N/A	<p>Old shoreline complex with swales, some of which are very wet. Swales are occupied by larch, Labrador tea, cedar, spruce, balsam fir. Occasional sweet gale.</p> <p>Upland portions are pretty spongy.</p> <p>Slight increase in white pine and larch in the western portion of the stand.</p> <p>Trace red pine in the canopy; rare juniper (along shoreline) in the subcanopy.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		3	Log/XLog/Pole	14		Black Spruce		Trace	< 5 feet	Sapling	
Quaking Aspen		5	Log/XLog/Pole	14		White Spruce		Trace	Variable	Sapling	
Northern White Cedar		75	Pole/Log/XLog	8	94	Sweet Gale		Trace	< 5 feet	Tall Shrub	
White Spruce		3	Log/Pole/XLog	10		Balsam Fir		High	Variable	Sapling	
Balsam Fir		7	Pole/Sapling	7		Labrador Tea		Trace	< 5 feet	Tall Shrub	
Paper Birch		3	Pole/Log/Sap	8		Tamarack		Trace	Variable	Sapling	
Tamarack		2	Log/Pole	12		Small Cranberry		Trace	< 5 feet	Tall Shrub	
Black Spruce		2	Pole	8							

15	6120 - Lowland Cedar	Poletimber Medium	15.8	114	141-170	N/A	<p>Dead black ash. Wet pocket in center of stand dominated by sapling white spruce, balsam fir, cedar, larch, BAM with scattered log QA/BAM.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		60	Pole/Log	8	114	Balsam Fir		Low	Variable	Sapling	
Paper Birch		3	Log/Pole	10		Striped Maple		Trace	Variable	Sapling	
Red Maple		2	Log/Pole	10		White Spruce		Low	Variable	Sapling	
Quaking Aspen		25	Log/XLog	16		Tamarack		Trace	10 - 20 feet	Sapling	
White Spruce		10	Log/Pole	10		Balsam Poplar		Trace	Variable	Sapling	
						Tag Alder		Trace	5 - 10 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
16	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	12.0	41	Unspecified	N/A	<p>Sapling stand, despite MiFI insistence that it's Pole. Stand data is based on observations from the north half. South half appears to be more cedar dominated, less canopy closure. Gentle upland slope on east edge between stand 17 and 24. Trace red maple, white pine in canopy. Rare cattails in subcanopy. North half at least is the result of a recovering beaver flooding - old beaver damage. Some small channels through north. Scattered residual log spruce and cedar.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		35	Sapling/Pole/Log	4	41	Balsam Poplar		Low	Variable	Sapling	
Balsam Fir		33	Sapling/Pole	4	41	Balsam Fir		Trace	Variable	Sapling	
White Spruce		15	Pole/Sapling	5		White Spruce		Trace	Variable	Sapling	
Paper Birch		10	Pole/Sapling	6		Northern White Cedar		Medium	Variable	Sapling	
Balsam Poplar		1	Pole/Sapling	6		Willow spp.		Trace	>20 feet	Sapling	
Yellow Birch		1	Pole/Sapling	6							
Quaking Aspen		5	Pole/Sapling	6							
17	622 - Lowland Shrub	Nonstocked	1.7		Unspecified	No		<p>Swamp milkweed, bulrush present. More trees present in south third of stand; north is grass and shrub dominated.</p>			
Sub-Canopy Species		Density	Avg. Height	Size							
Willow spp.		Low	< 5 feet	Tall Shrub							
Tag Alder		Medium	5 - 10 feet	Tall Shrub							
Northern White Cedar		Low	5 - 10 feet	Sapling							
White Spruce		Low	Variable	Sapling							
Cattail spp.		Low	Unspecified	Non-Wood							
18	42370 - Upland Cedar, Aspen	Sawtimber Well	86.3	114	141-170	N/A	<p>Highly variable basal areas. Cedar and quaking aspen are consistently present. Birch, white pine, balsam fir are somewhat clumpy in nature. Rare white pine, white spruce, hemlock in subcanopy. Trace hemlock, balsam poplar, and bigtooth aspen in canopy. Dog lichen(?) present. Remarkable upland cedar with pockets of coarse woody debris - mostly balsam fir, some white ash, spruce, and aspen tops CWD. Declining QA, PB. Regen is almost exclusively BF. Some pockets of overmature, declining aspen. Gorgeous hemlock and white pine along south edge. Fantastic cedar complex in southwest.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		2	Log/Pole/XLog	12		Balsam Fir		High	Variable	Sapling	
Balsam Fir		2	Pole/Log/Sap	7		Striped Maple		Trace	Variable	Sapling	
Sugar Maple		1	Pole/Log	8							
Quaking Aspen		28	Log/XLog/Pole	14							
Paper Birch		2	Log/Pole	12							
White Spruce		1	Log	14							
Northern White Cedar		64	Log/Pole/XLog	12	114						
19	6224 - Treed Bog	Nonstocked	2.3		Unspecified	No		<p>Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.</p>			
20	6230 - Cattail	Nonstocked	11.5		Unspecified	No	<p>Channels throughout stand; old beaver dam in the north.</p>				
Sub-Canopy Species		Density	Avg. Height	Size							
Tamarack		Low	Variable	Sapling							
Balsam Fir		Low	Variable	Sapling							
Cattail spp.		High	Unspecified	Non-Wood							
Northern White Cedar		Low	Variable	Sapling							
White Spruce		Low	Variable	Sapling							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21 6128 - Lowland Coniferous, Mixed Deciduous Sapling Medium 8.7 31 Immature N/A

Edge call from various points along the south edge. Appears to be a well-regenerating stand with scattered residual poles, occasional log. Species composition will likely be adjusted if observed from within the stand. Some very impressive white pine regeneration on south edge as well.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Sapling	2		Willow spp.	Low	5 - 10 feet	Tall Shrub
Balsam Fir	25	Sapling	2	31	Tag Alder	Medium	10 - 20 feet	Tall Shrub
Northern White Cedar	25	Sapling	2	31				
Balsam Poplar	10	Sapling	2					
Tamarack	15	Sapling	2					
Paper Birch	10	Sapling	2					

22 4123 - Red Oak Sawtimber Well 9.1 100 141-170 N/A

Visited 11/20/13 by JS. Comments: Some XL red oak and beech. Beech scale heavy; snap occurring. Nice quality oak. Some ironwood. Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log	11		Beech	Full	5 - 10 feet	Sapling
Basswood	2	Log	12					
Sugar Maple	5	Log/Pole	10					
Red Oak	73	Log	12	100				
Beech	15	Log	14					

23 4112 - Maple, Beech, Cherry Association Sawtimber Well 44.7 90 51-80 N/A

2014 comments: Heavy beech scale with snap occurring. Very heavy beech understory. Some XL sugar maple and beech. Tall sugar maple. Some good quality trees but also some poor quality. Northern part of stand drops down into low ground. Birch falling out. Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	30	Log	14		Beech	Full	5 - 10 feet	Sapling
Red Oak	10	Log	16					
White Ash	2	Log	16					
Paper Birch	2	Log/Pole	10					
Sugar Maple	50	Log	16	100				
Bigtooth Aspen	2	Log	14					
Basswood	4	Log	12					

24 4119 - Mixed Northern Hardwoods Sawtimber Well 86.4 84 81-110 N/A

Dead white ash. Rare hemlock seedling <1'. Trace red oak in the northwest. Nice hemlock in the northwest, too. Trace white pine along the northeast edge. Portion near stand 65 is aspen/red maple dominated, 25-50% forested with thick balsam fir saplings. Just to the south, before the stand narrows, it becomes paper birch/red maple dominated with trace hemlock. Some wet swales within stand. Trail along the southern half of the stand, then veers northwest. Observed one small yew!

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	1	XLog/Log	18		White Spruce	Trace	Variable	Sapling
Ironwood	1	Pole	6		Striped Maple	Medium	Variable	Sapling
Quaking Aspen	3	Log/XLog	16		Beech	Trace	Variable	Sapling
Northern White Cedar	1	Log/Pole	10		Ironwood	Trace	Variable	Sapling
Beech	2	Log/Pole	12		White Pine	Trace	< 5 feet	Sapling
Sugar Maple	60	Log/Pole/XLog	10	84	Balsam Fir	Low	Variable	Sapling
Paper Birch	30	Log/Pole	12					
Red Maple	2	Log/Pole	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
25	4110 - Sugar Maple Association	Sawtimber Well	59.1	91	111-140	N/A	<p>Trace ironwood, hemlock, quaking aspen in canopy. Rare balsam fir, white pine, and hemlock in subcanopy. Stand follows a ridge; northeast slopes into adjacent lowland.</p> <p>Trace yellow birch along south edge of stand 65. Dead white ash; significant beech snap. Sparse subcanopy stocking where not dominated by beech. One red berried elder on root ball. Trace white pine saps, hemlock in middle of stand, sort of near stand 26. Increase of basswood, inclusion of red maple, hemlock, yellow birch in south (absent in the north).</p> <p>East edge gets wet as it transitions into the adjacent lowland (stand 27) with silver maple.</p> <p>South quarter of the stand transitions to sugar maple with beech, birch, basswood, red maple bigtooth, and hemlock (scattered but consistent). FULL beech subcanopy.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	5	Log	12		Beech	High		Variable	Sapling
Beech	2	Log/Pole	12		Ironwood	Trace		< 5 feet	Sapling
Red Maple	2	Log/Pole/XLog	14		Striped Maple	Trace		Variable	Sapling
Bigtooth Aspen	1	XLog/Log	20		White Spruce	Trace		Variable	Sapling
Sugar Maple	87	Log/Pole/XLog	10	91	Sugar Maple	Low		>20 feet	Sapling
Basswood	2	XLog/Log	18						
Red Oak	1	Log/XLog	14						
26	6113 - Lowland Maple	Poletimber Medium	12.9	85	81-110	N/A		<p>Hardwood swamp, scattered dead black ash. Trace quaking aspen, BAM in south half of stand.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Silver Maple	100	Pole/Log/XLog	8	85	Cattail spp.	Medium	Unspecified		Non-Wood
					Tag Alder	Low	5 - 10 feet		Tall Shrub
					Silver Maple	Low	>20 feet		Sapling
					Michigan Holly	Trace	5 - 10 feet		Tall Shrub
					Willow spp.	Trace	5 - 10 feet		Sapling
					Leatherleaf	Medium	< 5 feet	Tall Shrub	
27	6229 - Mixed lowland shrub	Nonstocked	33.6		Unspecified	No	<p>More cedar in the south than elsewhere. Small channels through stand.</p>		
Sub-Canopy Species	Density	Avg. Height	Size						
Tag Alder	Trace	5 - 10 feet	Tall Shrub						
Northern White Cedar	Low	Variable	Sapling						
Leatherleaf	Low	< 5 feet	Tall Shrub						
Silver Maple	Trace	>20 feet	Log						
Phragmites (native)	Low	Unspecified	Non-Wood						
Bulrush	Trace	Unspecified	Non-Wood						
Willow spp.	Medium	5 - 10 feet	Tall Shrub						
Cattail spp.	Low	Unspecified	Non-Wood						
28	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	67.0	101	51-80	N/A		<p>Trace sugar maple, beech, BAM, red oak, basswood in canopy. Rare hemlock, cedar, black spruce, holly in the subcanopy. Dead ash. Pole red maple/quaking aspen dominated with pockets dominated by log. Better soil development on south end and into stand 29.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Northern White Cedar	5	Pole/Log	8		Tag Alder	Trace	10 - 20 feet		Tall Shrub
White Spruce	2	Log/Pole	10		White Spruce	Low	Variable		Sapling
Hemlock	3	Log/XLog/Pole	14		Beech	Trace	Variable		Sapling
Red Maple	40	Pole/Log	8	101	Striped Maple	Low	Variable		Sapling
Paper Birch	2	Pole/Log	8		Japanese Barberry	Trace	< 5 feet		Tall Shrub
Balsam Fir	5	Pole	6		Sugar Maple	Trace	>20 feet		Sapling
Yellow Birch	5	Pole/Log	8		Balsam Fir	High	Variable		Sapling
Quaking Aspen	38	Pole/Log	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
29	4119 - Mixed Northern Hardwoods	Sawtimber Medium	41.9	106	51-80	N/A	Baseline road along south edge of stand (meanders). Really horrific beech brush, resulting from BBD and the aftermath (with 90% mortality in beech). Observed two basswood poles. More red maple in east than west. Trace yellow birch on north edge; more oak along north edge, too. Rare hemlock in the subcanopy. Trace quaking aspen.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	59	Log/Pole/XLog	14	106	Balsam Fir	Trace	>20 feet	Sapling
	Beech	5	Log/Pole	14		Striped Maple	Trace	Variable	Sapling
	Bigtooth Aspen	5	XLog/Log	18		Beech	Full	Variable	Sapling
	Red Maple	15	Log/Pole/XLog	14		Ironwood	Trace	Variable	Sapling
	Red Oak	2	Log/XLog	16					
	Hemlock	1	Log/XLog	14					
	Basswood	3	Log/XLog	16					
	Paper Birch	10	Log	12					
30	4110 - Sugar Maple Association	Sawtimber Medium	3.9	151	51-80	N/A	Average diameter is 26-28. Trace bigtooth aspen. Potential OG; paper birch decline.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	80	XLog/Log	22	151	Beech	Full	Variable	Sapling
	Paper Birch	10	Log/XLog	16					
	Beech	10	Pole/Log	8					
31	4119 - Mixed Northern Hardwoods	Sawtimber Medium	2.6	100	81-110	N/A	POG. Rare striped maple in subcanopy.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Yellow Birch	2	Log	10		Balsam Fir	Medium	Variable	Sapling
	Sugar Maple	64	Log/Pole/XLog	16	100	Sugar Maple	Trace	>20 feet	Sapling
	Quaking Aspen	13	Log/XLog	16		White Spruce	Trace	Variable	Sapling
	Northern White Cedar	20	Log/Pole/XLog	14					
	Paper Birch	1	Log	14					
32	6113 - Lowland Maple	Sawtimber Well	17.5	84	141-170	N/A	Rare elm, balsam fir, black ash, white cedar in subcanopy. Pretty awesome floodplain forest. Long dead black ash except a couple with live epicormic shoots.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Silver Maple	100	Log/Pole/XLog	12	84	Silver Maple	Trace	>20 feet	Sapling
						White Spruce	Trace	Variable	Sapling
						Leatherleaf	Trace	< 5 feet	Tall Shrub
33	6112 - Lowland Aspen	Poletimber Medium	16.6	91	51-80	N/A	Trace hemlock in canopy. Active beaver. Dead black ash saplings. Regenerating quaking aspen, balsam fir, white spruce with occasional cedar, birch, red maple. Occasional but rare surviving black ash sapling. Larger diameters as you progress south, becoming more log-sized.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Quaking Aspen	80	Pole/Sap/Log	7	91	Balsam Fir	High	Variable	Sapling
	Northern White Cedar	5	Log/Pole	12	91	White Spruce	Trace	Variable	Sapling
	Paper Birch	5	Log/Pole	10		Tag Alder	Low	5 - 10 feet	Tall Shrub
	Red Maple	5	Pole/Log/Sap	6		Northern White Cedar	Trace	10 - 20 feet	Sapling
	Balsam Poplar	2	Pole/Log	8					
	Balsam Fir	3	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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34	6111 - Lowland Balsam Poplar	Poletimber Poor	28.0	26	1-50	N/A	Lots of dead cedar, black spruce, black ash. Squishy and hummocky stand. Rare equisetum and cattails in the subcanopy.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Silver Maple	2	Pole/Log	8		Northern White Cedar	Trace	< 5 feet	Seeding
Northern White Cedar	10	Pole/Sapling	6		Tag Alder	Low	Variable	Tall Shrub
Balsam Poplar	73	Sapling/Pole/Log	3	26	Bog Rosemary	Trace	< 5 feet	Tall Shrub
Tamarack	15	Pole/Sap/Log	6		Tamarack	Low	Variable	Sapling
					Willow spp.	Low	10 - 20 feet	Tall Shrub
					Labrador Tea	Low	< 5 feet	Tall Shrub
					Leatherleaf	Low	< 5 feet	Tall Shrub
					Swamp Dewberry	Trace	< 5 feet	Tall Shrub
					Black Spruce	Trace	< 5 feet	Seeding

35	4319 - Mixed Upland Forest	Sawtimber Well	33.1	95	111-140	N/A	Upland cedar, mixed deciduous. Pockets of dense balsam fir regeneration, 2", 20'. Some pockets of fir mortality - possibly spruce budworm. Variable pockets of quaking aspen. Very cool stand; old growth present. White ash went from 2% in 2013 to absent in 2023. Rare ash in the subcanopy (just saw one).
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	2	Log/XLog	14		Striped Maple	Low	Variable	Sapling
Quaking Aspen	8	XLog/Log	18		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	40	Log/Pole/XLog	16	95	White Spruce	Trace	Variable	Sapling
Balsam Fir	2	Pole/Log/Sap	7					
Hemlock	1	XLog	30					
Paper Birch	25	Log/XLog	16					
White Pine	1	XLog	28					
Sugar Maple	20	Log/Pole/XLog	16					
Yellow Birch	1	Pole/Log	8					

36	4112 - Maple, Beech, Cherry Association	Sawtimber Well	38.9	103	51-80	N/A	Rare living log beech. Areas without full beech subcanopy see an increase in stiff clubmoss and advanced sugar maple saplings, >20', but still have a low stocking of subcanopy beech. ORV trail through north end of stand (generally E-W). Trace red maple, ironwood, basswood, quaking aspen in canopy. Rare white spruce in subcanopy.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	77	Log/Pole/XLog	12	103	Striped Maple	Trace	5 - 10 feet	Sapling
Paper Birch	15	Log/XLog	12		Ironwood	Trace	Variable	Sapling
Beech	5	Pole/Log	8		Sugar Maple	Low	>20 feet	Sapling
Yellow Birch	2	Log/XLog	16		Beech	High	Variable	Sapling
Bigtooth Aspen	1	XLog/Log	20					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
37	4119 - Mixed Northern Hardwoods	Sawtimber Well	14.9	112	51-80	N/A	Hemlock, cedar along north edge. Dead yellow and paper birch scattered. Few dead white ash and beech in canopy yet. West leg has a much higher stocking of subcanopy balsam fir and an increase in balsam fir poles and trace white spruce poles.																																																																						
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38	4199 - Other Mixed Upland Deciduous	Sawtimber Well	19.2	103	51-80	N/A	Trace hemlock, ironwood, basswood, balsam fir in canopy. Rare ironwood in subcanopy. Quickly declining beech. South half is more sugar maple dominated, north half is bigtooth with red maple and sugar maple.																																																																						
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Striped Maple	Medium	10 - 20 feet	Sapling																																																																										
Sugar Maple	Trace	>20 feet	Sapling																																																																										
39	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	35.4	101	111-140	N/A	Significant blowdown made it difficult to walk through this stand to better estimate composition. Inventory is largely influenced by field observation in the southwest. Stumps and burn scars in southwest. Pockets of significant, thick blow down; cedar, fir, alder, larch, black ash, spruce, BAM filling in.																																																																						
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40	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	13.3	103	51-80	N/A	Contains potential old growth sugar maple and basswood.																																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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41 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Medium 25.0 84 51-80 N/A Edge call from southwest. Stand would benefit from a more thorough field inventory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	2	Log/Pole	10		Balsam Poplar	Trace	Variable	Sapling
Northern White Cedar	18	Log/Pole	12		Balsam Fir	High	Variable	Sapling
Red Maple	27	Log/Pole/XLog	14		White Spruce	Low	Variable	Sapling
White Spruce	5	Log/Pole	14		Striped Maple	Low	Variable	Sapling
Quaking Aspen	28	Log/Pole/XLog	16	84	Red Maple	Trace	>20 feet	Sapling
Paper Birch	20	Log/Pole	12					

42 6120 - Lowland Cedar Sapling Medium 13.6 26 Immature N/A Old beaver flooding, filling in with nice diversity in trees. Scattered remnant larch, aspen, willow. Non-forested pockets are dominated by willow and grasses, but filling in with seedlings/saplings. One nightshade. Cedar present in sap/pole/log, but MiFI wouldn't allow me to call it that without calling the stand a pole stand. Canopy/subcanopy is kind of jumbled up at this stage. Heavier stocking of poles/logs in western portion of stand by appearance (imagery - did not observe in the field).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Sapling	2		Northern White Cedar	Medium	Variable	Sapling
Tamarack	15	Sapling/Pole/Log	3		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	50	Sapling	2	26	White Spruce	Low	Variable	Sapling
Quaking Aspen	2	Log/Pole	12		Swamp Black Currant	Trace	< 5 feet	Tall Shrub
White Spruce	5	Sapling/Pole	2		Tamarack	Medium	Variable	Sapling
Balsam Poplar	3	Sapling	1		Willow spp.	Medium	10 - 20 feet	Tall Shrub
Balsam Fir	15	Sapling/Pole	4		Balsam Poplar	Trace	Variable	Sapling
					Tag Alder	Low	5 - 10 feet	Tall Shrub
					Phragmites (native)	Trace	Unspecified	Non-Wood
					Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub

43 6239 - Mixed Emergent Wetland Nonstocked 19.3 Unspecified No Old beaver dam in north, appears to have flooded the stand resulting in mortality. Observed from the south. Nice sapling regeneration along south edge. Becomes increasingly sparse and wetter as you progress north. Dead standing cedar. West edge and especially northwest appear to have slightly higher stocking of deciduous species, likely aspen, red/silver maple, and/or birch. Saplings are likely to continue encroaching northward.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	Low	Variable	Sapling
White Spruce	Trace	Variable	Sapling
Willow spp.	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	Low	Variable	Sapling
Cattail spp.	Medium	Unspecified	Non-Wood
Bulrush	Low	Unspecified	Non-Wood

44 4130 - Aspen Sawtimber Medium 6.7 110 51-80 N/A South third of stand becomes fully stocked with balsam fir in the subcanopy. North half is dominated by striped maple, saplings and poles. Potential for seasonal flooding.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	13	Log/Pole	10		Balsam Fir	Low	>20 feet	Pole
Sugar Maple	2	Pole	7		Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen	1	Log/XLog	16		White Spruce	Trace	Variable	Sapling
Paper Birch	8	Log/Pole	12		Striped Maple	High	Variable	Sapling
Quaking Aspen	75	Log/XLog	15	110	Striped Maple	Low	>20 feet	Pole
White Spruce	1	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
45	6229 - Mixed lowland shrub	Nonstocked	6.4		Unspecified	No	Observed from north edge. Nice white pine on northeast perimeter. Appears to have a higher prevalence of deciduous trees along the south edge.	
		Sub-Canopy Species		Density	Avg. Height	Size		
		Northern White Cedar		Low	Variable	Sapling		
		White Pine		Low	Variable	Sapling		
		Tag Alder		Low	5 - 10 feet	Tall Shrub		
		Red Maple		Trace	>20 feet	Pole		
		Bulrush		Medium	Unspecified	Non-Wood		
46	4140 - Other Upland Deciduous	Sawtimber Well	8.7	75	111-140	N/A	11/20/13 comments: Beech scale. Few Ironwood, 5", BW 14", in the eastern portion fading into adjacent stand. White spruce on north edge. Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Beech		2	Log	12		
		Quaking Aspen		2	Log	16		
		White Spruce		2	Pole	8		
		Balsam Fir		2	Pole	6		
		Yellow Birch		2	Log	12		
		Paper Birch		80	Log/Pole	10		75
		Sugar Maple		10	Log/Pole/XLog	16		95
		Sub-Canopy Species		Density	Avg. Height	Size		
		Beech		Low	Variable	Pole		
		Beech		Low	Variable	Sapling		
		Balsam Fir		Low	< 5 feet	Sapling		
		Sugar Maple		Medium	Variable	Sapling		
47	6120 - Lowland Cedar	Sawtimber Well	9.1	114	141-170	N/A	Wet, very mossy and hummocky. White spruce is sort of in a super canopy position. Some live black ash saplings. Trace larch, white pine in canopy. Rare holly, cedar, black spruce in subcanopy.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Red Maple		1	Log/Pole	12		
		Northern White Cedar		93	Log/Pole	10		114
		Yellow Birch		1	Pole/Log	8		
		White Spruce		2	Log	12		
		Black Spruce		2	Log/Pole	10		
		Balsam Fir		1	Pole/Sapling	6		
		Sub-Canopy Species		Density	Avg. Height	Size		
		Tag Alder		Trace	5 - 10 feet	Tall Shrub		
		Black Ash		Low	10 - 20 feet	Sapling		
		Balsam Fir		Medium	Variable	Sapling		
48	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	4.1	85	51-80	N/A	Remote call based on aerial imagery. Stand was not visited during 2023/2024 inventory season.	
49	6112 - Lowland Aspen	Poletimber Medium	10.9	95	51-80	N/A	Treed bog in the middle, surrounded by spruce, aspen. Wet. Stump field - a couple enormous stumps. Unique species composition in the subcanopy; some rare occurrences for the island: rare occurrences of grape, hazelnut, and red osier dogwood. Also rare occurrences of sugar maple, hemlock, and yellow birch. Dead black ash. Pretty much all paper birch originates from nurse stumps.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Paper Birch		5	Pole/Sapling	6		
		White Spruce		24	Pole/Log/Sap	8		110
		Red Maple		5	Pole/Log	8		
		Basswood		1	Log/XLog	14		
		Balsam Poplar		25	Pole/Sapling	6		
		Balsam Fir		15	Pole/Sap/Log	8		
		Quaking Aspen		25	Log/Pole/XLog	14		95
		Sub-Canopy Species		Density	Avg. Height	Size		
		Balsam Poplar		Medium	Variable	Sapling		
		Balsam Fir		Low	Variable	Sapling		
		Alder Leaved Buckthorn		Low	< 5 feet	Tall Shrub		
		Willow spp.		Trace	10 - 20 feet	Tall Shrub		
		White Spruce		Medium	Variable	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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50 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Medium 54.3 80 81-110 N/A

Trace amounts of white cedar to the south and west edge. Heavy browsing. Pockets of blow down with pretty dense spruce/fir saplings coming up. Wetter to west. Charred stumps. Rare beech, suar maple, black spruce, alder in subcanopy. Balsam fir subcanopy increased from medium (2014) to high (2023).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	12	Pole	8		Balsam Poplar	Trace	< 5 feet	Sapling
White Spruce	26	Log/Pole/XLog	14	110	White Spruce	Low	Variable	Sapling
Red Maple	20	Log/Pole	10		Striped Maple	Trace	5 - 10 feet	Sapling
Paper Birch	2	Pole/Log	9		Balsam Fir	High	Variable	Sapling
Quaking Aspen	38	Log/Pole	14	80				

52 4199 - Other Mixed Upland Deciduous Sawtimber Medium 18.8 104 81-110 N/A

2014 comments: Heavier to sugar maple in the south (especially in the shadow of the hill), paper birch in the north; few white cedar along north edge, quaking aspen too. 100% cover of paper birch in the middle (gentle transition into and out of birch pocket), then back to 50%. Occasional yellow birch on edge. Few hemlock and white cedar to east; larger diameter timber in east also - very high water table. MNFI concern. Stand holds a 2% slope towards water. Beech scale. Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	2	Pole	8		Striped Maple	Low	Variable	Sapling
Quaking Aspen	2	Log	16		Sugar Maple	Low	Variable	Pole
Paper Birch	50	Log/Pole	12	104	Ironwood	Low	Variable	Sapling
Sugar Maple	42	Log	14		Beech	Low	Variable	Sapling
Basswood	2	Log	14		White Spruce	Medium	Variable	Sapling
Ironwood	2	Pole/Log	8		Sugar Maple	Medium	Variable	Sapling
					Balsam Fir	High	Variable	Sapling

53 42380 - Non Pine Upland Conifer, Mixed Deciduous Poletimber Well 35.8 95 81-110 N/A

11/20/13 comments: Heavier to white cedar along coast. Pockets of log-sized trees. Quaking aspen falling out. Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole	6		Balsam Fir	High	Variable	Sapling
White Spruce	25	Pole/Log/Sap	8		Striped Maple	Low	Variable	Sapling
Quaking Aspen	15	Log/Pole	10		Northern White Cedar	Low	Variable	Sapling
Northern White Cedar	40	Pole/Log/Sap	8	95				

54 4110 - Sugar Maple Association Sawtimber Medium 571.2 102 81-110 N/A

Beech has been reduced from 27% (2014) to 5% (2023); hit hard by BBD, and whatever beech are lingering are mostly affected by scale, declining from the top down. The only thing growing amongst the dense beech brush is advanced sugar maple saplings and poles >20', and the occasional striped maple and ironwood. PB has mostly died out. Trace ironwood, bigtooth, basswood, and hemlock in the canopy. Rare white spruce, apple, and yellow birch in the subcanopy. Split out stand 60 from parent stand. Increased paper birch, aspen, and red maple in that region.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	3	Log/XLog	16		Sugar Maple	Trace	< 5 feet	Seeding
Paper Birch	3	Log/XLog	14		Sugar Maple	Trace	>20 feet	Sapling
Yellow Birch	1	Log/Pole	12		Striped Maple	Trace	>20 feet	Pole
Beech	5	Log/Pole/XLog	12		Balsam Fir	Trace	Variable	Sapling
Red Maple	3	Log/XLog/Pole	14		Striped Maple	Low	Variable	Sapling
Sugar Maple	85	Log/XLog/Pole	14	102	Beech	Full	Variable	Sapling
					Ironwood	Trace	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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55	6120 - Lowland Cedar	Poletimber Medium	74.0	114	51-80	N/A	This is an edge call. Stand was not adequately inventoried during 2024 inventory cycle. Significant blow down on some edges. Some cedar mortality. Variable densities; species diversity increases as does size classes as you progress west.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		7	Log/Pole/XLog	12		Balsam Fir		Low	Variable	Sapling	
Northern White Cedar		70	Pole/Sap/Log	6	114	Michigan Holly		Trace	5 - 10 feet	Tall Shrub	
Balsam Fir		10	Sapling/Pole	4		Willow spp.		Trace	5 - 10 feet	Tall Shrub	
Red Maple		6	Pole/Sap/Log	7	65	Tag Alder		Low	5 - 10 feet	Tall Shrub	
Yellow Birch		1	Pole/Sap/Log	6							
Black Spruce		3	Pole/Sapling	6							
Tamarack		2	Pole/Log/Sap	6							
Hemlock		1	Pole/Log	8							

56	6112 - Lowland Aspen	Sawtimber Well	166.9	73	51-80	N/A	Highly variable stand and could easily be broken into three separate stands. Eastern 40 acres are much more upland: bigtooth, red maple, and paper birch dominated. Beaver activity and vernal pools around stand 57. Old charred stumps in east. Rest of the stand is swampy-ish, fairly moist hardwood/aspens/fir. Some areas are pole dominated. Scattered upland pockets of some fairly decent hardwood and aspen. A couple sapling mountain ash in the western half of the stand (heavily browsed). Significant amount of dead ash in lowland areas with a lot of sapling aspen responding to ash mortality and cedar windthrow. White pine on southeast transitional edge with X/L/P white cedar and hemlock. Trace basswood, hemlock, yellow birch, white pine in canopy. Rare hemlock, willow, mountain ash, michigan holly, white pine, black cherry, white ash, tag alder in subcanopy.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		5	Log/XLog	14	73	Quaking Aspen		Trace	Variable	Sapling	
Balsam Fir		5	Pole/Log	8		Striped Maple		Low	Variable	Sapling	
Sugar Maple		2	Pole/Log/Sap	7		Beech		Trace	Variable	Sapling	
Northern White Cedar		1	Log/Pole/XLog	11		Balsam Fir		High	Variable	Sapling	
Red Maple		30	Log/Pole/XLog	10		White Spruce		Trace	Variable	Sapling	
Paper Birch		10	Log/Pole	10	93	Balsam Poplar		Trace	Variable	Sapling	
White Spruce		5	Log/Pole	12							
Quaking Aspen		42	Log/Pole	14	73						

57	6233 - Wet Meadow	Nonstocked	2.7		Unspecified	No	Low stocking of iris across stand. Dead black ash. Seasonally wet stand, but currently a mostly dry, grassy field with scattered dead ash. Encroaching aspen, occasional shrub. Couple scattered white spruce saplings.	
Sub-Canopy Species		Density	Avg. Height	Size				
Grape Vine		Trace	Unspecified	Vine				
White Spruce		Trace	5 - 10 feet	Sapling				
Tag Alder		Trace	5 - 10 feet	Tall Shrub				
Silver Maple		Trace	>20 feet	Log				
Balsam Poplar		Trace	>20 feet	Sapling				
Willow spp.		Trace	10 - 20 feet	Tall Shrub				

58	6111 - Lowland Balsam Poplar	Poletimber Poor	5.8	51	1-50	N/A	Rare elm in subcanopy. Dead black ash; few log-sized willow. Increase in willow and dead cedar in south; trace cedar seedlings here.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Silver Maple		15	Pole/Log	8		Willow spp.		Low	10 - 20 feet	Sapling	
Quaking Aspen		5	Log/Pole	10		White Spruce		Trace	Variable	Sapling	
Balsam Poplar		80	Pole/Sapling	6	51	Tag Alder		High	Variable	Tall Shrub	
						Tamarack		Trace	Variable	Sapling	
						Balsam Poplar		Medium	Variable	Sapling	
						Leatherleaf		Trace	< 5 feet	Tall Shrub	
						Red Osier Dogwood		Trace	< 5 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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59	6112 - Lowland Aspen	Poletimber Medium	5.2	60	51-80	N/A	Trace white cedar in canopy. Rare elm and willow in subcanopy. Dead ash and elm scattered in the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Log/Pole	10	
Balsam Poplar	5	Sapling/Pole	4	
Balsam Fir	5	Pole/Sapling	6	
White Spruce	30	Log/Pole	12	
Quaking Aspen	50	Pole/Log/Sap	7	60
Yellow Birch	2	Log/Pole	12	
Silver Maple	2	Pole/Log	8	
Red Maple	1	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	Low	10 - 20 feet	Sapling
White Spruce	Low	Variable	Sapling
Balsam Fir	High	Variable	Sapling

60	4199 - Other Mixed Upland Deciduous	Sawtimber Well	94.8	102	81-110	N/A	Stand still needs full inventory. Split from parent stand 54 and adapted based on cursory field observations.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	25	Log/Pole	14	102
Red Maple	15	Log/Pole	10	
Beech	5	Log/Pole/XLog	14	
Bigtooth Aspen	5	Log	16	
Paper Birch	35	Log/Pole	14	102
Quaking Aspen	15	XLog/Log	18	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Ironwood	Low	Variable	Sapling
Striped Maple	Low	Variable	Sapling
White Spruce	Low	Variable	Sapling
Beech	Medium	Variable	Sapling

61	330 - Low-Density Trees	Nonstocked	0.4	0	Unspecified	No	Fir and spruce present in Pole/Log/Sap size classes.
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Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	>20 feet	Pole
Apple (spp.)	Trace	>20 feet	Pole
Balsam Fir	Medium	>20 feet	Pole

62	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Medium	3.2	114	81-110	N/A	Lack of elm seedlings/saplings. 4 to 5-foot water marks on silver maple. Three distinct areas to stand: Sapling balsam poplar (in Southwest), X/L white cedar (south-central), and log silver maple (north/east half). One 28.9" elm in west.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	35	Sapling/Pole/Log	4	
Balsam Fir	4	Pole	6	
Quaking Aspen	6	Log/Pole	12	
Northern White Cedar	20	XLog/Log	18	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Trace	Variable	Sapling
Quaking Aspen	Trace	Variable	Sapling
Balsam Poplar	Trace	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
63	4112 - Maple, Beech, Cherry Association	Sawtimber Well	1.0	90	81-110	N/A	Visited by JS 4/14/14. Comments: Heavy beech scale with snap occurring. Very heavy beech understory. Some XL sugar maple and beech. Tall sugar maple. Some good quality trees but also some poor quality. Northern part of stand drops down into low ground. Birch falling out. Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.																																																				
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64	6112 - Lowland Aspen	Sawtimber Medium	14.4	84	51-80	N/A	LOT of coarse woody debris. High striped maple stocking in north, full balsam fir in west and southwest. Dead ash. Did not see south third of stand.																																																				
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65	4199 - Other Mixed Upland Deciduous	Sapling Medium	2.9	15	Immature	N/A	BAM/QA sort of took off after ash died. Trace paper birch and silver maple in canopy. Dead ash - formerly approximately 25% of the stand. Trace willow are kind of mixing with sapling canopy still.																																																				
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66	6118 - Lowland Deciduous with Cedar	Sawtimber Well	10.2	84	111-140	N/A	Trace balsam poplar in canopy. Stand is reasonably dry but contains a drainage in the north end, and the south half is likely seasonally flooded. North edge of stand, especially north center, has significant blowdown. White pine seeding in on north edge amongst dense balsam fir saplings with scattered white spruce saplings.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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67	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	24.8	84	111-140	N/A	
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Fairly remarkable canopy composition in the south half of the stand. Subcanopy is dominated by balsam fir and striped maple, but there's some impressive hemlock and white cedar regeneration in a portion of the south half - stand gets damper with a more open canopy and really decent cedar and hemlock regen, increase in canopy hemlock as well. North half is consistently quaking aspen and red maple canopy, except northeast has some blow down and opens up, becoming pole/sap dominated (trace silver maple here). Undefined transitional/variable boundaries along the north and east edges of this stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	10	Log/XLog	14		Paper Birch	Trace	>20 feet	Sapling
Red Maple	35	Log/Pole/XLog	12	84	Yellow Birch	Trace	>20 feet	Sapling
Northern White Cedar	10	Log/Pole	12		Balsam Fir	High	Variable	Sapling
Paper Birch	10	Log	12		White Spruce	Trace	Variable	Sapling
White Spruce	2	Log/Pole	12		Beech	Trace	5 - 10 feet	Sapling
Balsam Fir	1	Pole	7		Striped Maple	Medium	Variable	Sapling
Quaking Aspen	22	Log/XLog	14		Hemlock	Trace	< 5 feet	Seeding

68	4319 - Mixed Upland Forest	Sawtimber Well	15.5	84	111-140	N/A	
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Significant stand with high volume of hemlock. Trace quaking aspen in canopy. Unique prominence of hemlock and cedar in the canopy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Log/Pole/XLog	12		Hemlock	Low	>20 feet	Pole
Balsam Fir	4	Pole	6		White Pine	Trace	< 5 feet	Sapling
Yellow Birch	5	Log/Pole	14		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	17	Log/Pole	12		Beech	Trace	5 - 10 feet	Sapling
Hemlock	21	Log/Pole/XLog	14		Striped Maple	Low	Variable	Sapling
White Pine	1	XLog/Log	20					
Red Maple	37	Log/Pole/XLog	14	84				

69	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.4	85	81-110	N/A	
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Remote call maintaining 2014 inventory. Stand was not visited during 2023/2024 inventory season.