



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 218

Entry Year 2016

Acreage: 2,284

County Mackinac

Management Area: Great Lakes Islands - NLP

Revision Date: 04/16/2014

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 before management activities: 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:

No Archeological, Historical, or Cultural Features known.

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.

Watershed and Fisheries Considerations:

NLHMU.

Fisheries Concerns: None.

Wildlife Habitat Considerations:

Treatments in this compartment will promote early successional habitat benefiting deer, grouse, and woodcock. Hardwood treatments will provide within stand structural diversity.

Mineral Resource and Development Concerns and/or Restrictions

Lots 9 - 12, T39N-R1 & 2W, Mackinac County

Surface sediments consist of lacustrine sand and gravel, sometimes thin to discontinuous. The glacial drift thickness is thin to discontinuous. The Devonian Bois Blanc Formation and Silurian Salina Group subcrop below the glacial drift. The Bois Blanc Formation and Salina Group could be/are quarried for stone. A gravel pit is located to the west and potential is possible in some areas. The nearest oil and gas production, the Niagaran Reef Trend, is located many miles to the south. There is no known oil and gas potential in the area.

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:

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.

On the bright side, water access and abundance is 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**

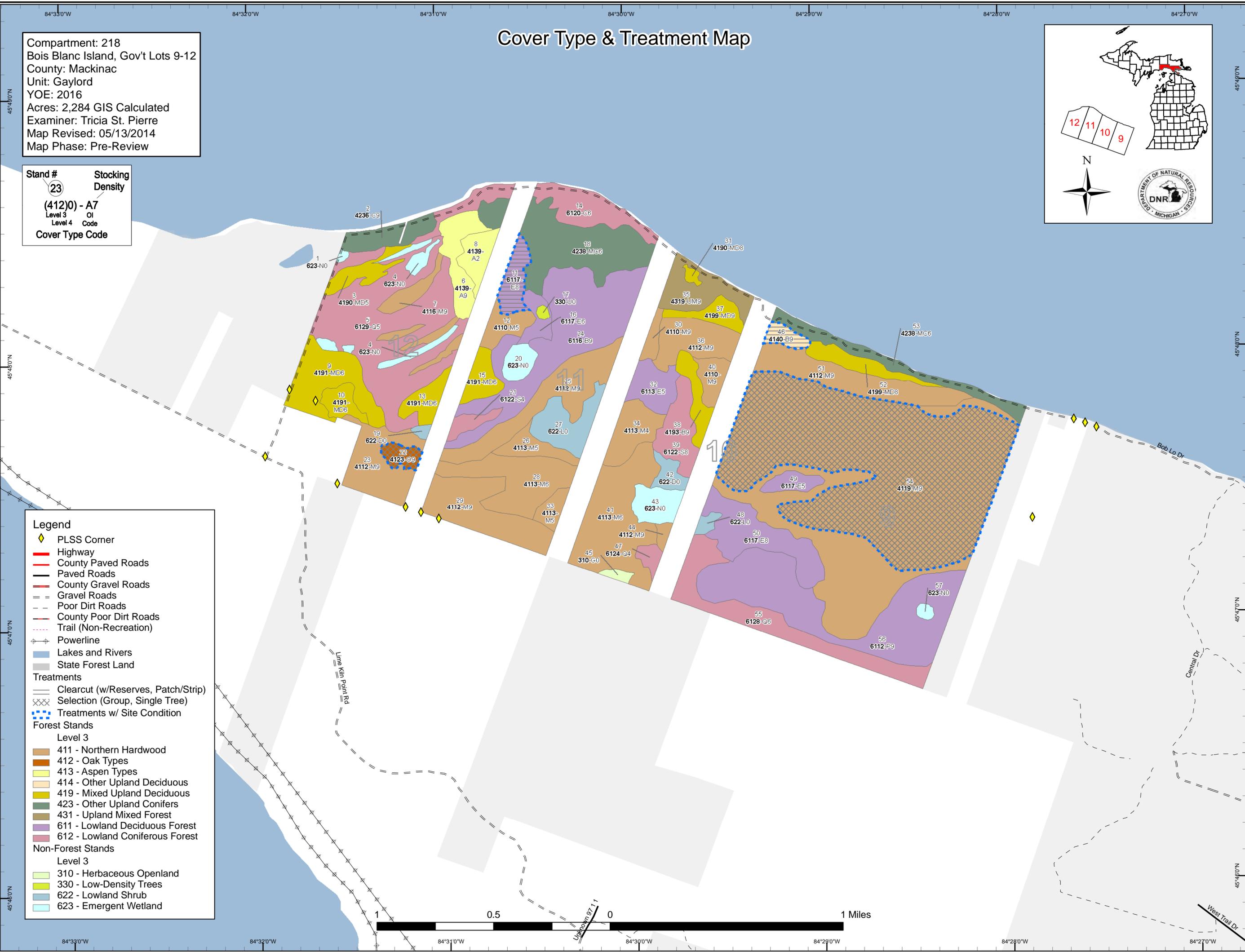
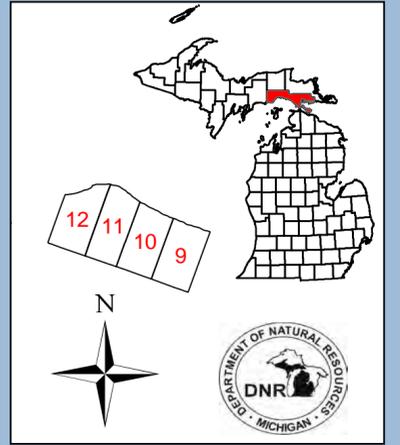
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatment Map

Compartment: 218
 Bois Blanc Island, Gov't Lots 9-12
 County: Mackinac
 Unit: Gaylord
 YOE: 2016
 Acres: 2,284 GIS Calculated
 Examiner: Tricia St. Pierre
 Map Revised: 05/13/2014
 Map Phase: Pre-Review

Stand #
 (23)
 Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- ◆ PLSS Corner
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Powerline
- Lakes and Rivers
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- XXXX Selection (Group, Single Tree)
- Treatments w/ Site Condition

Forest Stands

Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

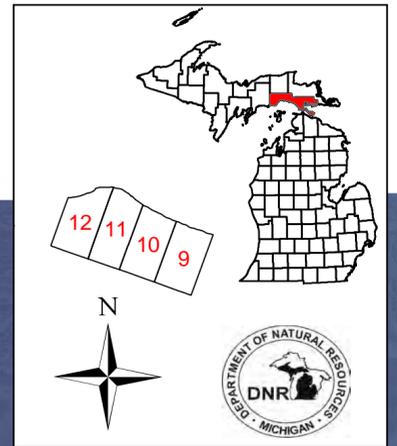
Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

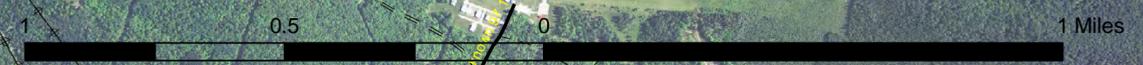
Stand Boundary Map

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Stand # **23** Stocking Density
(4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



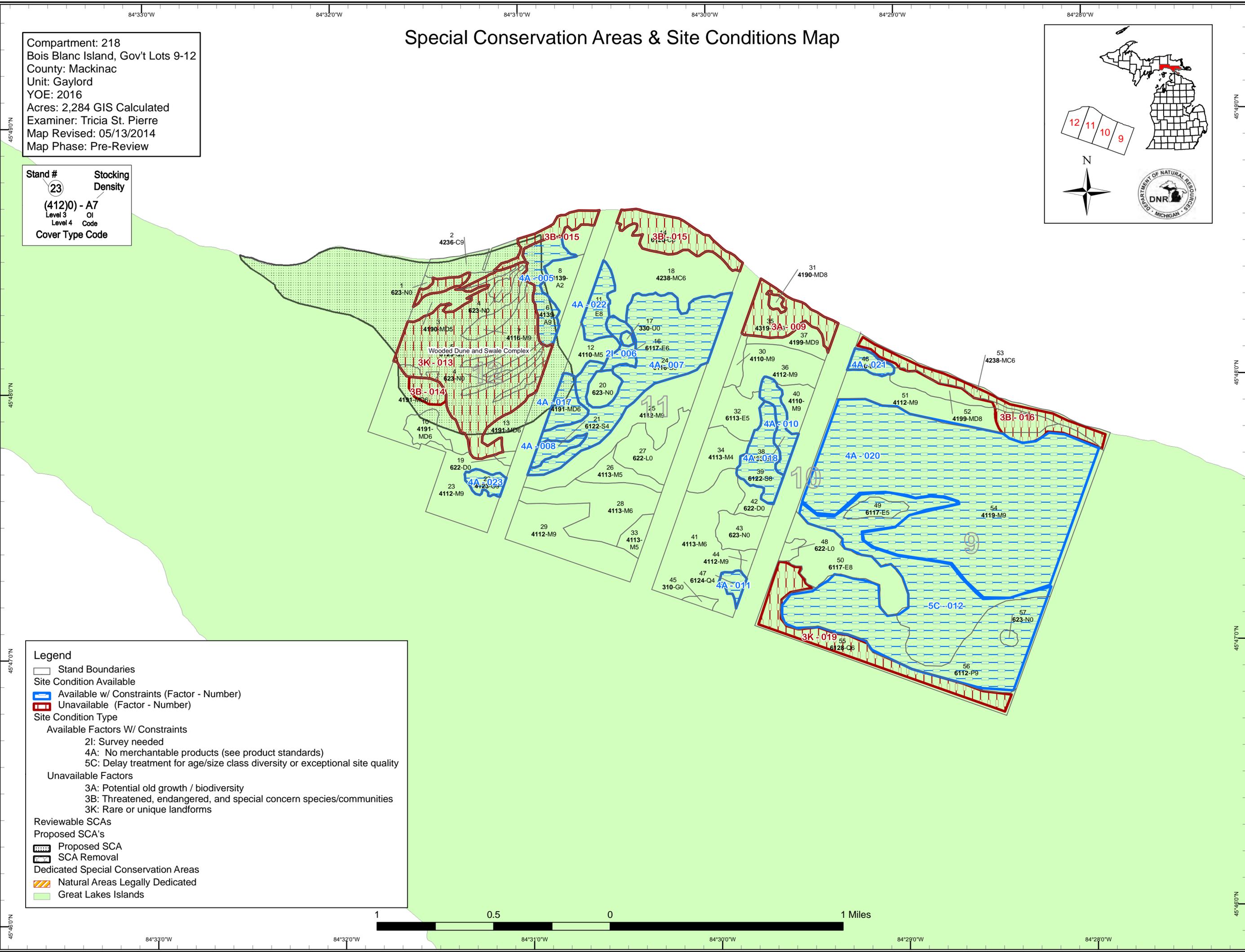
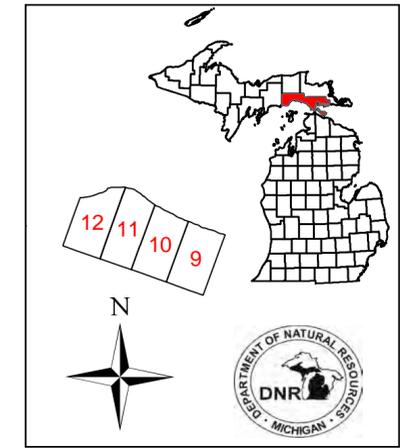
- Legend**
- ◆ PLSS Corner
 - Highway
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Trail (Non-Recreation)
 - Powerline
 - Stand Boundaries
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
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 - 423 - Other Upland Conifers
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- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
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Special Conservation Areas & Site Conditions Map

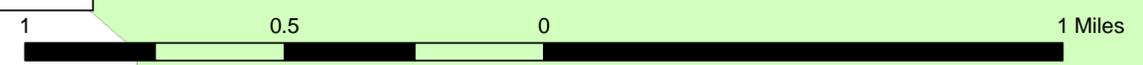
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Stand # **23** Stocking Density
(4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- Stand Boundaries
- Site Condition Available
- ▭ Available w/ Constraints (Factor - Number)
- ▭ Unavailable (Factor - Number)
- Site Condition Type
- Available Factors W/ Constraints
 - 2I: Survey needed
 - 4A: No merchantable products (see product standards)
 - 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
 - 3A: Potential old growth / biodiversity
 - 3B: Threatened, endangered, and special concern species/communities
 - 3K: Rare or unique landforms
- Reviewable SCAs
- Proposed SCA's
 - ▭ Proposed SCA
 - ▭ SCA Removal
- Dedicated Special Conservation Areas
 - ▭ Natural Areas Legally Dedicated
 - ▭ Great Lakes Islands





	Age Class													Total	
	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 +		Uneven Age
Aspen	0	17	0	0	0	0	0	0	28	0	0	0	0	0	45
Cedar	0	0	0	0	0	0	0	0	72	0	0	0	0	0	72
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	146	0	0	0	0	0	146
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	6	0	0	224	230
Lowland Deciduous	0	0	0	0	0	0	0	95	22	0	0	0	0	0	117
Lowland Shrub	35	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	8	0	0	30	38
Marsh	52	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Mixed Upland Deciduous	0	0	0	0	0	0	0	92	0	21	16	0	0	16	146
Northern Hardwood	0	0	0	0	26	0	0	182	58	613	13	0	0	180	1073
Oak	0	0	0	0	0	0	0	0	0	9	0	0	0	0	9
Paper Birch	0	0	0	0	0	0	9	126	0	16	0	0	0	0	151
Treed Bog	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Upland Conifers	0	0	0	0	0	0	0	0	33	0	87	0	0	0	120
Upland Mixed Forest	0	0	0	0	0	0	0	0	33	0	0	0	0	0	33
Total	104	17	0	0	26	0	9	496	393	659	130	0	0	450	2284



Report 2 – Proposed Treatment Summaries

Gaylord Mgt. Unit
Year of Entry 2016

Compartment 218
Total Compartment Acres: 2,284

Acres by Treatment Type

Commercial Harvest - 457 Tree Planting - 0 Other - 0
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

		<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Lowland Deciduous Forest	18	0	0	0	0	0	0	18
Northern Hardwood	0	421	0	0	0	0	0	421
Oak Types	0	9	0	0	0	0	0	9
Other Upland Deciduous	9	0	0	0	0	0	0	9
Total	27	430	0	0	0	0	0	457



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type! #Type!

Prescription
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: #Type!

**Total Treatment
Acreage Proposed: 0.0**



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
11	52218011-Cut	17.9	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	75		Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Clearcut to 2", retaining under-represented species (especially hemlock if present), using leave-tree marking if necessary to protect and/or buffer										
<u>Specs:</u> trees. Need permission from Bud Club (adjacent property) for cutting/hauling access. The Bud Club was not in agreement to use of their road without special cutting specs (low/no slash, low stumps, etc.) in 2013.										
<u>Other</u>										
<u>Comment:</u>										
<u>Next</u> Evaluate in 3-5 years following harvest for browsing damage and acceptable regeneration. Acceptable regen includes a mix of aspen, maple, and										
<u>Steps:</u> other mixed deciduous species.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 4A: No merchantable products (see product standards)										
22	52218022-Cut	9.1	4123 - Red Oak	High Density Log	90	141- 170	Harvest	Single Tree Selection	412 - Oak	Cmpt. Review Proposal
<u>Prescription</u> Thin stand to 50-80 BA, variable, with 1/4-1/2 acre canopy gaps at one gap per two or three acres. to promote oak regeneration. Focus gaps in										
<u>Specs:</u> areas with less beech densities (under- and over-story).										
<u>Other</u>										
<u>Comment:</u>										
<u>Next</u> Regeneration survey to monitor for acceptable regeneration, including a mix of oak and mixed northern hardwood.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 4A: No merchantable products (see product standards)										
46	52218046-Cut	8.7	4140 - Other Upland Deciduous	High Density Log	65	111- 140	Harvest	Clearcut	4140 - Paper Birch	Cmpt. Review Proposal
<u>Prescription</u> Clearcut to 2". No retention due to objective and small stand size.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Next</u> Regen survey in 3-5 years following harvest to determine adequate stocking levels of desired species. Acceptable regen includes a mix of paper										
<u>Steps:</u> birch, aspen, and mixed hardwood.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 4A: No merchantable products (see product standards)										
54	52218054-Cut	421.2	4119 - Mixed Northern Hardwoods	High Density Log	92	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Cut all beech, thin remaining stand to 80 BA where higher BA persists. DO NOT CUT ANY BEECH SHOWING RESISTANCE TO BEECH										
<u>Specs:</u> SCALE. Do not cut under-represented species, especially hemlock and white pine. Designate 1-3 trees per acre as snags unless those trees are already evident (i.e. beech snap, rotten, dead).										
<u>Other</u> Keep sale boundary out of wet areas (especially in the south), and be mindful of MNFI feature to the north. MNFI feature needs a 660' buffer										
<u>Comment:</u> (Federal guidelines), and State guidelines mandate operations outside of January 10 to June 1.										
<u>Next</u> Regen survey and monitor for acceptable regeneration of mixed northern hardwood species.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 4A: No merchantable products (see product standards)										

**Total Treatment
Acreage Proposed: 456.9**

Report 5 – Site Conditions

Gaylord Mgt. Unit

Compartment 218

Tricia St. Pierre : Examiner

Year of Entry 2016

Availability for Management

Total Acres	Acres		Dominant Site Conditions	Dominant Site Conditions							
	Available	Not Available		No	5C	4A	3K	3B	3A	2I	
45	45		Aspen	17		28					
72	22	51	Cedar	22				51			
146	146	0	Lowland Aspen/Balsam Poplar	7	138		0				
230	19	211	Lowland Conifers	13	0	6	211				
117	117		Lowland Deciduous	77	11	18					11
38	38		Lowland Spruce/Fir			38					
146	134	12	Mixed Upland Deciduous	118		16		12			
1072	1028	44	Northern Hardwood	499	121	408	24	19			
9	9		Oak			9					
151	151		Paper Birch			151					
119	96	23	Upland Conifers	96				23			
33		33	Upland Mixed Forest						33		
2,178	1,805	373	Total Forested Acres	849	271	674	235	105	33	11	
	83%	17%	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
005	Available	4A: No merchantable products (see product standards)	28				
Comments:							
Access and feasibility of marketing is questionable since this compartment is on Boblo Island. Needs further examination. Stage 1 data is a remote call and needs to be verified/updated when conditions allow.							
006	Available	2I: Survey needed	11				
Comments:							
Needs further examination. Stage 1 data is a remote call and needs to be verified/updated when conditions allow.							

Report 5 – Site Conditions

Gaylord Mgt. Unit

Tricia St. Pierre : Examiner

Compartment 218

Year of Entry 2016

007	Available	4A: No merchantable products (see product standards)	126	
Comments: Access and feasibility of marketing is questionable since this compartment is on Boblo Island. Needs further examination. Stage 1 data is a remote call and needs to be verified/updated when conditions allow.				
008	Available	4A: No merchantable products (see product standards)	8	
Comments: Access and feasibility of marketing is questionable since this compartment is on Boblo Island. Needs further examination. Stage 1 data is a remote call and needs to be verified/updated when conditions allow.				
009	Not Available	3A: Potential old growth / biodiversity	33	
Comments:				
010	Available	4A: No merchantable products (see product standards)	16	
Comments: Access and feasibility of marketing is questionable since this compartment is on Boblo Island. Needs further examination. Stage 1 data is a remote call and needs to be verified/updated when conditions allow.				
011	Available	4A: No merchantable products (see product standards)	6	
Comments: Access and feasibility of marketing is questionable since this compartment is on Boblo Island. Needs further examination. Stage 1 data is a remote call and needs to be verified/updated when conditions allow.				

Report 5 – Site Conditions

Gaylord Mgt. Unit

Tricia St. Pierre : Examiner

Compartment 218

Year of Entry 2016

012	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	274	2G: Too wet (sensitive soils, does not include access issues)	[REDACTED]
Comments:					
013	Not Available	3K: Rare or unique landforms	197	3B: Threatened, endangered, and special concern species/communities	[REDACTED]
Comments:					
014	Not Available	3B: Threatened, endangered, and special concern species/communities	9		[REDACTED]
Comments:					
015	Not Available	3B: Threatened, endangered, and special concern species/communities	51	3K: Rare or unique landforms	[REDACTED]
Comments:					
016	Not Available	3B: Threatened, endangered, and special concern species/communities	45	3K: Rare or unique landforms	[REDACTED]
Comments:					
MNFI hit. 660' buffer in the east.					

Report 5 – Site Conditions

Gaylord Mgt. Unit

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017	Available	4A: No merchantable products (see product standards)	16		
Comments: Access and feasibility of marketing is questionable since this compartment is on Boblo Island. Needs further examination. Stage 1 data is a remote call and needs to be verified/updated when conditions allow.					
018	Available	4A: No merchantable products (see product standards)	30		
Comments: Access and feasibility of marketing is questionable since this compartment is on Boblo Island. Needs further examination. Stage 1 data is a remote call and needs to be verified/updated when conditions allow.					
019	Not Available	3K: Rare or unique landforms	55	3A: Potential old growth / biodiversity	
Comments: The eastern half of this stand is included in the Central					
020	Available	4A: No merchantable products (see product standards)	409		
Comments: Access and feasibility of marketing this sale is questionable since the compartment is on Boblo Island.					
021	Available	4A: No merchantable products (see product standards)	9		
Comments: Access and feasibility of marketing this sale is questionable since the compartment is on Boblo Island.					

Report 5 – Site Conditions

Gaylord Mgt. Unit
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022	Available	4A: No merchantable products (see product standards)	18
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Comments:

Access and feasibility of marketing this sale is questionable since the compartment is on Boblo Island.

023	Available	4A: No merchantable products (see product standards)	9
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Comments:

Access and feasibility of marketing this sale is questionable since the compartment is on Boblo Island.



Report 6 – 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
Wooded Dune and Swale Complex	Spring-Seeps, Riparian Areas	Riparian Area	SCA	411.6
Comments				



Report 7 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	42360 - Upland Cedar	High Density Log	21.5	84		
3	4190 - Mixed Upland Deciduous with Cedar	Medium Density Pole	15.9	Uneven Age		Rises in the old shoreline, swale complex.
5	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	155.9	Uneven Age		Old shoreline; swale complex with very little variation in topography the upland and lowland.
6	4139 - Aspen, Mixed Deciduous	High Density Log	28.1	80		Appears to be dominated by aspen in the north, maybe hardwood or birch in the south. Evaluate in the field when possible.
7	4116 - Mixed N. Hardwood - Aspen	High Density Log	24.3	74		Appears to be a mix of hardwood raised above the swale complex.
8	4139 - Aspen, Mixed Deciduous	Medium Density	16.8	15		Clearcut; heavy browsing. Check densities when able to get to the island.
9	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	49.3	75		
10	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	12.5	75		
11	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	17.9	75		Stand appears to be a mix of lowland deciduous (red maple, aspen, perhaps some birch) and mixed coniferous, likely black spruce and balsam fir, maybe some white pine. Evaluate when ferry runs in the spring.
12	4110 - Sugar Maple Association	Medium Density Pole	15.8	Uneven Age		
13	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	15.7	75		
14	6120 - Lowland Cedar	High Density Pole	50.9	84		Stand appears to have pockets of exposed limestone, unvegetated (based on imagery); high water table.
15	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	15.8	104		Appears to be a mix of deciduous species (aspen, birch, maple (red and sugar)) with conifer, probably a mix of balsam fir and black spruce. Age is a black spruce.
16	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	11.2	85		Stand appears to be a mix of lowland deciduous (red maple, aspen, perhaps some birch) and mixed coniferous, likely black spruce and balsam fir, maybe some white pine. Evaluate when ferry runs in the spring.
18	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	86.8	104		Old, slow growing black spruce (based on old inventory).



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	6122 - Black Spruce	Low Density Pole	8.3	104		
22	4123 - Red Oak	High Density Log	9.1	90	141-170	Some XL red oak and beech. Beech scale heavy; snap occurring. Nice quality oak. Some ironwood.
23	4112 - Maple, Beech, Cherry Association	High Density Log	45.8	Uneven Age		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.
24	6116 - Lowland Birch	High Density Log	125.9	74		Mix of upland and lowland birch, red maple, conifer mix.
25	4112 - Maple, Beech, Cherry Association	High Density Log	59.9	Uneven Age		
26	4113 - R.Maple, Conifer	Medium Density Pole	15.9	75		Appears to be a transition zone between up and lowland. Red maple, spruce, fir, possibly aspen.
28	4113 - R.Maple, Conifer	High Density Pole	56.4	75		
29	4112 - Maple, Beech, Cherry Association	High Density Log	59.0	Uneven Age		
30	4110 - Sugar Maple Association	High Density Log	7.0	93		
31	4190 - Mixed Upland Deciduous with Cedar	Medium Density Log	2.6	90	51-80	140 BA in area of pole paper birch sprouts, unrepresentative of the whole. Pocket of QA on the northwest edge (south side of stand), just outside of stand.
32	6113 - Lowland Maple	Medium Density Pole	22.9	74		
33	4113 - R.Maple, Conifer	Medium Density Pole	9.6	104		
34	4113 - R.Maple, Conifer	Low Density Pole	26.4	47		
35	4319 - Mixed Upland Forest	High Density Log	33.2	85	171-200	Upland cedar, mixed deciduous. Pockets of dense balsam fir regeneration, 2", 20'. Variable pockets of quaking aspen.
36	4112 - Maple, Beech, Cherry Association	High Density Log	35.9	93		
37	4199 - Other Mixed Upland Deciduous	High Density Log	14.9	70	111-140	Paper birch falling out. Few 18" sugar maple and paper birch. Heavier sugar maple in the north. Thick balsam fir in the east.
38	4193 - Birch, Aspen	High Density Log	16.1	93		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	6122 - Black Spruce	Medium Density Log	29.9	Uneven Age		
40	4110 - Sugar Maple Association	High Density Log	13.4	93		
41	4113 - R.Maple, Conifer	High Density Pole	85.8	74		Stand appears to be variable in densities, species cover, and topography (upland and lowland) within stand boundaries. Visit in the spring would greatly help to better qualify (and quantify) the properties of this stand.
44	4112 - Maple, Beech, Cherry Association	High Density Log	3.6	100		Verify the west boundary of this stand in the field. It appears that the covertime might extend further into the adjacent (parent?) stand.
46	4140 - Other Upland Deciduous	High Density Log	8.7	65	111-140	Beech scale. Few Ironwood, 5", BW 14", in the eastern portion fading into adjacent stand. White spruce on north edge.
47	6124 - Lowland Spruce-Fir	Low Density Pole	6.3	104		
49	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	10.9	85	81-110	Treed bog in the middle, surrounded by black spruce, aspen, mixed deciduous/coniferous trees. Wet.
50	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	54.4	70	81-110	Trace amounts of white cedar to the south and west edge. Heavy browsing. Pockets of blow down. Wetter to west. Old black spruce, slow to grow.
51	4112 - Maple, Beech, Cherry Association	High Density Log	58.0	85		Might have a heavier mix of maple than stand to the south, based on aerial imagery.
52	4199 - Other Mixed Upland Deciduous	Medium Density Log	18.8	94	81-110	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.
53	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	32.8	85		Heavier to white cedar along coast. Pockets of log-sized trees. Quaking aspen falling out.
54	4119 - Mixed Northern Hardwoods	High Density Log	556.4	92	111-140	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. Very mixed densities throughout. Band of balsam fir (sap/pole), quaking aspen (log), and paper birch (pole) running between two lowlands in the south. Increase of red maple and bigtooth aspen (balsam fir in the understory) to the southwest. Loss of sugar maple and beech, inclusion of paper birch and white ash also in the southwest.

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Gaylord Mgt. Unit

Report 8 – Forested Stands

Compartment: 218

Year of Entry: 2016



S t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	68.2	Uneven Age		
56	6112 - Lowland Aspen	High Density Log	146.1	83	81-110	Very, very wet along road and in parts of stand. BAM on edge of swamp. Wetter to the west. Canopy closure is on the low end of 75%. Smaller diameter to the west. Clumps of aspen clones amongst pockets of mixed deciduous and spruce/fir.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	6239 - Mixed Emergent Wetland	1.4	No	Unspecified	
4	6239 - Mixed Emergent Wetland	17.1	No	Unspecified	
17	3302 - Low Density Conifer Trees	1.7	No	Unspecified	
19	6224 - Treed Bog	2.4	No	Unspecified	
20	6233 - Wet Meadow	11.5	No	Unspecified	
27	6229 - Mixed lowland shrub	30.8	No	Unspecified	
42	6224 - Treed Bog	9.9	No	Unspecified	
43	6239 - Mixed Emergent Wetland	19.0	No	Unspecified	
45	3105 - Mixed Upland Herbaceous	3.3	No	Unspecified	
48	6229 - Mixed lowland shrub	4.1	No	Unspecified	
57	6239 - Mixed Emergent Wetland	2.7	No	Unspecified	black spruce, balsam fir seed/sap sporadic throughout stand; edge BAM and quaking aspen.