



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 65

Entry Year 2016

Acreage: 1,069

County Charlevoix

Management Area: Great Lakes Islands - NLP

Revision Date: 04/03/2014

Stand Examiner: Kim Lentz

Legal Description:

T38N, R10W, Sec. 25,26, & 35

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

Soil and topography:

Topography is level to rolling with upland ridges adjacent to bottomland. In section 26, soils along the east boundary are Dune-Park Deer Land Association. Throughout the compartment, upland soils are Roscommon Sand. Transitional stands with lowland aspen and swamp conifer are Belding-Breckenridge Sandy Loams and Angelica-Ensley Loams. Lowland sites contain a Tawas-Carbondale Muck Association soil type.

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

State land ownership is solid except for most of the northern tier in section 26 and the S1/2NW and SWNE of section 35. The state only owns a small NW corner in section 25. Most of the land use in and around the compartment is hunting and recreation.

Unique Natural Features:

Dry Northern Mesic Forest, Remnant Dunes, and two plant species.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

Great Lakes Islands

Watershed and Fisheries Considerations:

An unnamed stream flows through stand 26. A 100 foot vegetative buffer should be maintained along the stream's riparian zone.

Wildlife Habitat Considerations:

Habitat cuts will be performed to regenerate early successional habitat for white-tailed deer, snowshoe hare, grouse, and woodcock.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and dune sand along the coast. The glacial drift thickness is approximately 300 feet based on a well drilled in Section 27. Beneath the glacial drift is the Devonian Detroit River Group. The Detroit River is mined for salt in other areas of the state. A gravel pit is located in Section 35 and gravel potential appears to be good. Oil and gas potential appears to be limited. The well in Section 27 was drilled in 1961 as a dry hole down to the Precambrian. None of the State land is currently leased except for the sand & gravel pit.

Vehicle Access:

The only driveable access road into Section 35 is the Johnny Martin Road into the gravel pit. East Side Drive and Hannigan Road are county gravel roads on the northeast boundaries of the compartment.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

Peaine Township leases and maintains the Bill Wagner Memorial Campground along the shoreline in the northeast corner

of the compartment along East Shore Drive. The Beaver Island Nature Trail is also maintained by Peaine Township and runs through the north half of Section 26.

Fire Protection:

Peaine Township Firehall with a fleet of fire response vehicles is located in the northeast corner of Section 26 on the west side of East Side Road.

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**

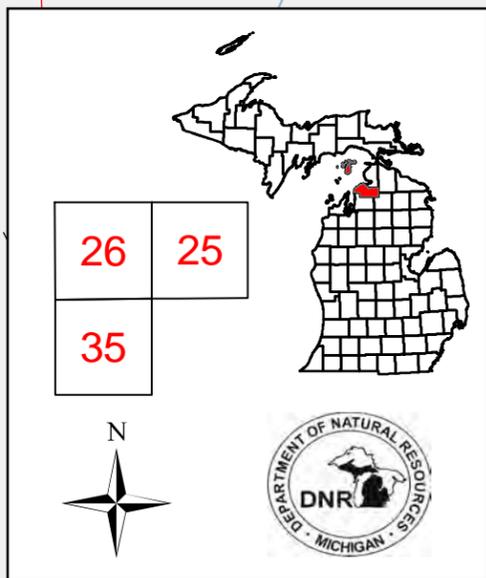
The following information is displayed, where pertinent, on the attached compartment maps:

- 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: 065
 T38N R10W Sections 25, 26, 35
 County: Charlevoix
 Unit: Gaylord
 YOE: 2016
 Acres: 1,069 GIS Calculated
 Examiner: Kim Lentz
 Map Revised: 05/12/2014
 Map Phase: Pre-Review

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- Miris Corners
- PLSS Corner
- Mining
- Recreation
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Treatments w/ Site Condition

Forest Stands

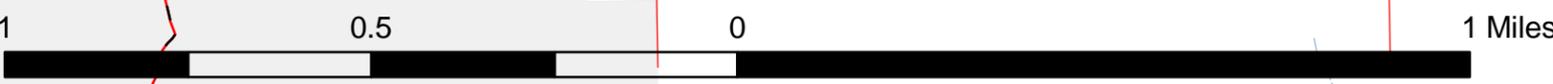
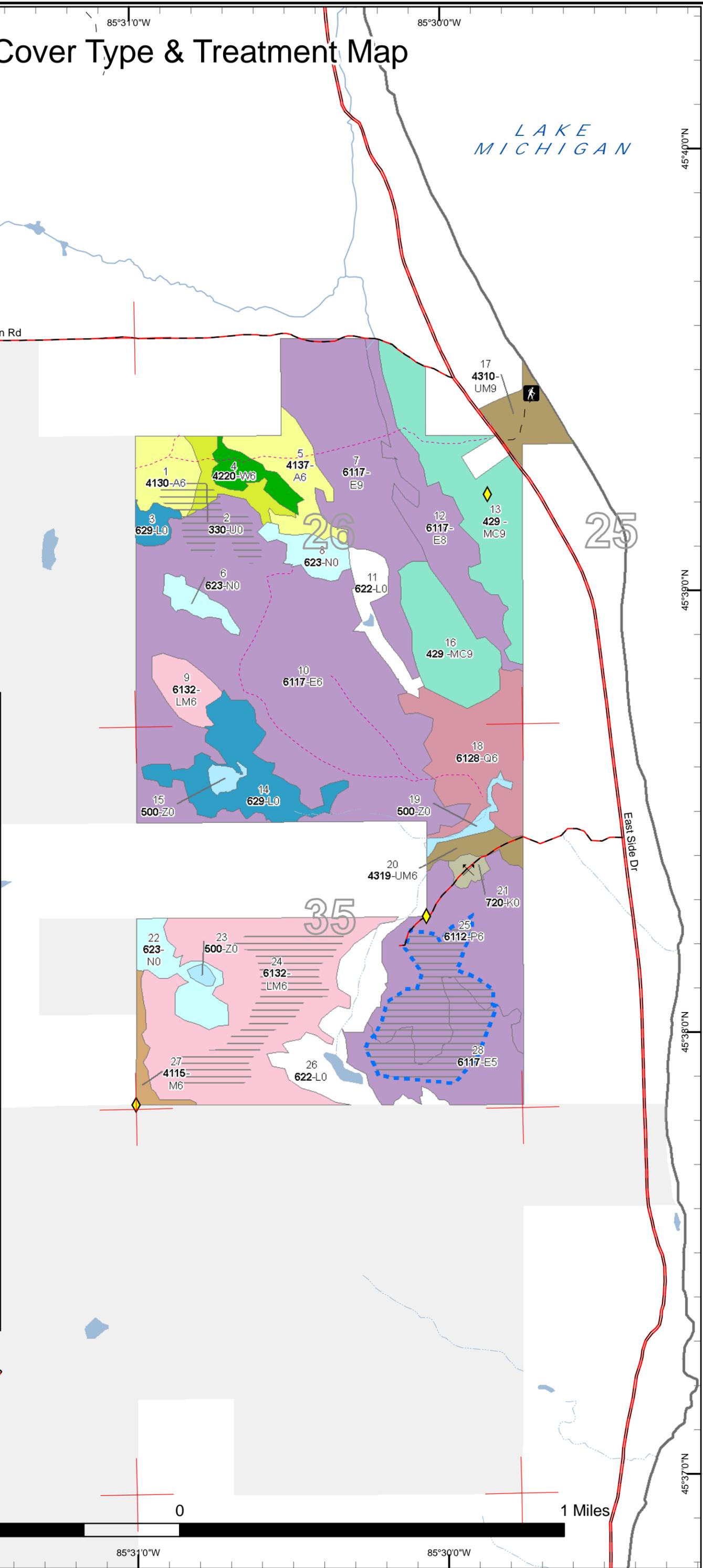
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

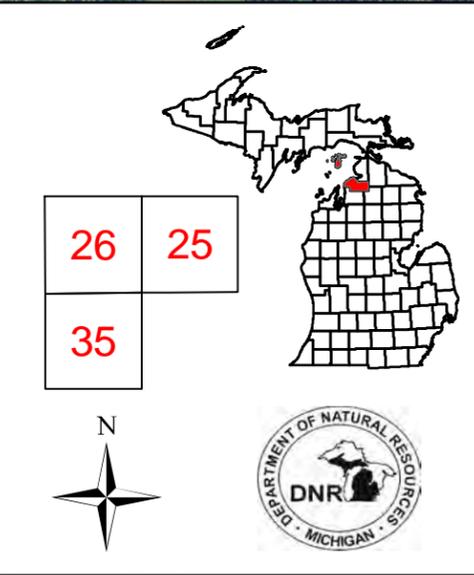
- 330 - Low-Density Trees
- 500 - Water
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- 720 - Exposed Rock



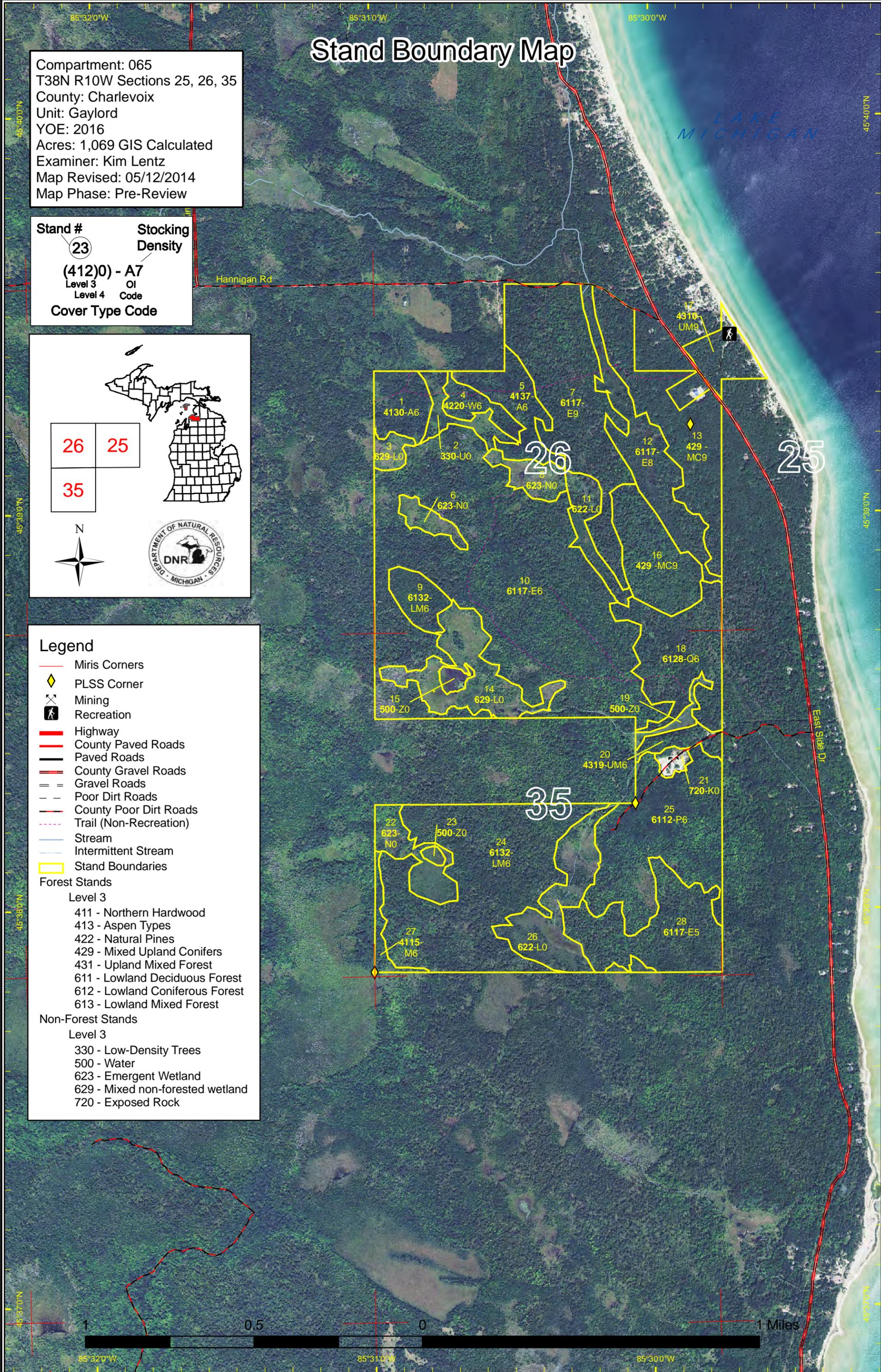
Stand Boundary Map

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 T38N R10W Sections 25, 26, 35
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 YOE: 2016
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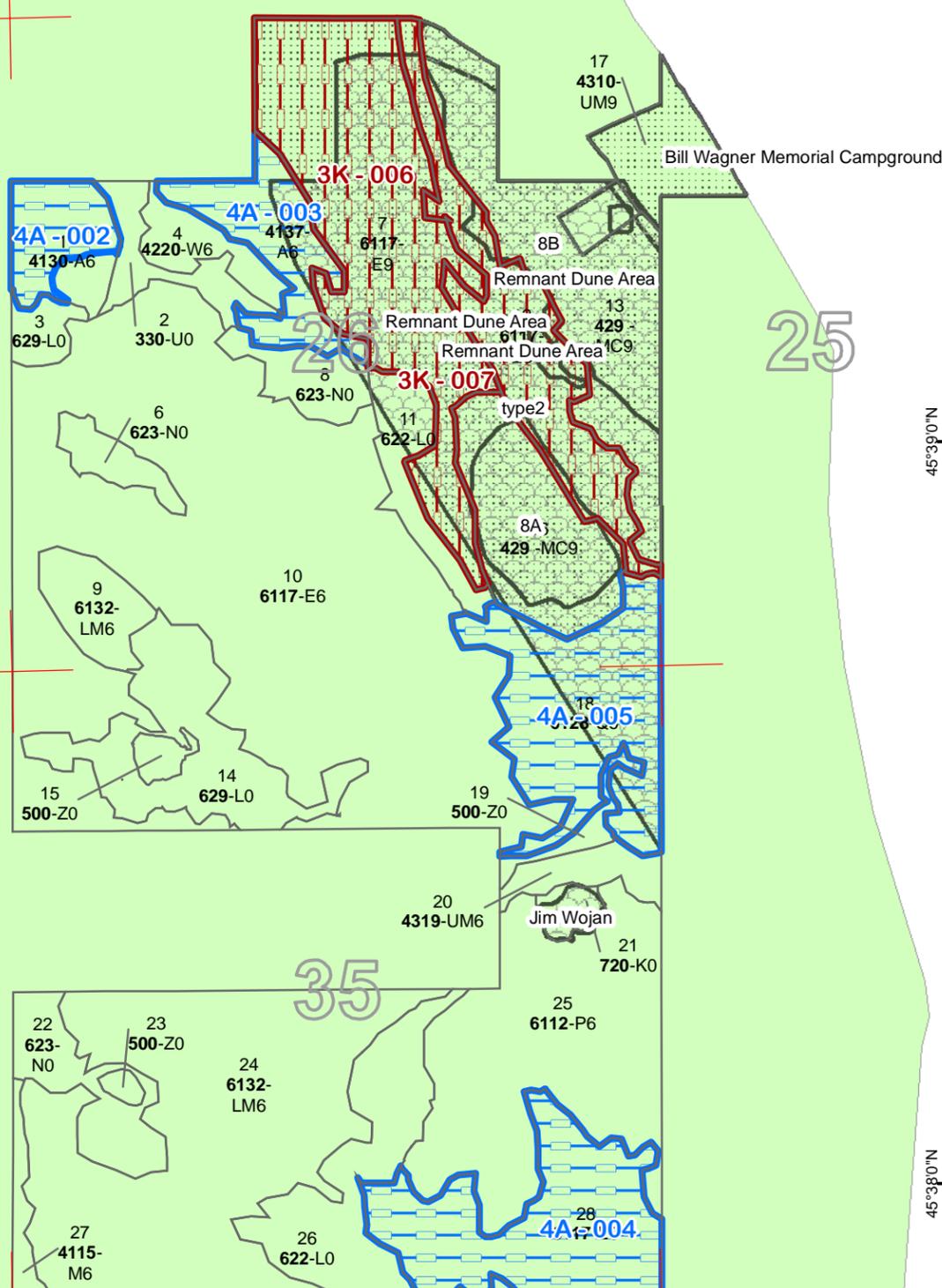
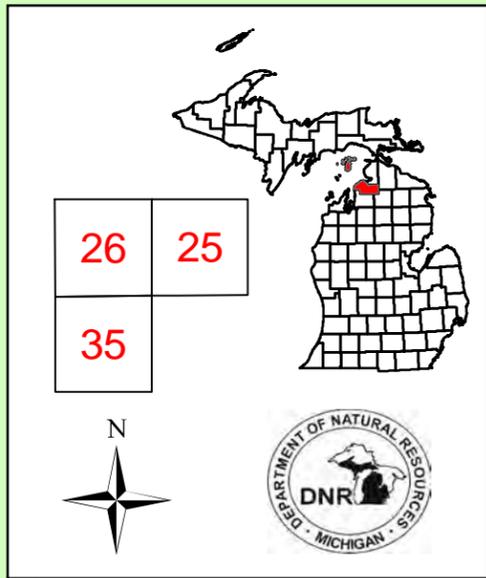
- Legend**
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Special Conservation Areas & Site Conditions Map

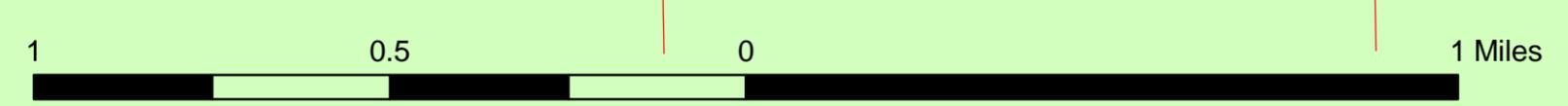
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Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- Miris Corners
- Stand Boundaries
- Site Condition Available
 - Available w/ Constraints (Factor - Number)
 - Unavailable (Factor - Number)
- Site Condition Type
 - Available Factors W/ Constraints
 - 4A: No merchantable products (see product standards)
 - Unavailable Factors
 - 3K: Rare or unique landforms
- Reviewable SCAs
- Proposed SCA's
 - Proposed SCA
 - SCA Removal
- Dedicated Special Conservation Areas
- 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	0	0	0	0	0	44	0	0	0	0	0	0	0	44
Exposed Rock	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Low-Density Trees	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Aspen/Balsam Poplar	0	0	85	0	0	0	0	0	0	0	0	0	0	0	85
Lowland Conifers	0	0	0	0	0	0	0	0	0	52	0	0	0	0	52
Lowland Deciduous	0	0	258	0	0	0	0	0	142	43	0	0	0	0	443
Lowland Mixed Forest	0	0	0	13	0	0	0	0	0	127	0	0	0	0	141
Lowland Shrub	100	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Marsh	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Northern Hardwood	0	0	0	0	0	0	0	0	7	0	0	0	0	0	7
Upland Conifers	0	0	0	0	0	0	0	0	0	98	0	0	0	0	98
Upland Mixed Forest	0	0	0	0	0	9	0	0	0	17	0	0	0	0	26
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
White Pine	0	0	0	0	11	0	0	0	0	0	0	0	0	0	11
Total	163	0	343	13	11	9	44	0	149	285	52	0	0	0	1069



Report 2 – Proposed Treatment Summaries

Gaylord Mgt. Unit
Year of Entry 2016

Compartment 065
Total Compartment Acres: 1,069

Acres by Treatment Type

Commercial Harvest - 0 Tree Planting - 0 Other - 0
Habitat Cut - 115 Opening Maintenance - 0

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
(Habitat Cut)Aspen Types	4	0	0	0	0	0	4
(Habitat Cut)Lowland Deciduous Forest	70	0	0	0	0	0	70
(Habitat Cut)Lowland Mixed Forest	41	0	0	0	0	0	41
Total	115	0	0	0	0	0	115

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	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
24	35337_island	41.1	6132 - Mixed Lowland Forest with Cedar	High Density Pole	94	81-110	Harvest	Clearcut	613 - Lowland Mixed Forest	Cmpt. Review Proposal

Prescription Treat for wildlife habitat project as per wildlife Biologist specifications & volunteer agreement.

Specs:

Other Comments: Treatment polygon represents 32% of total stand acreage. Currently 7.1 acres has red paint line delineated within the treatment area. Acres accomplished may be significantly less than what is prescribed. Volunteers from beaver island club plan to drop trees during winter months to create habitat & expand aspen where not commercially viable. Harvest efforts to be managed by Wildlife Division.

Next Steps: Monitor success of regeneration. Mixed lowland forest species with an aspen component is acceptable. If regen fails notify Wildlife Division.

Proposed

Start Date: 10/01/2015

1	52065001-Cut	4.4	4130 - Aspen	High Density Pole	65	81-110	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
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Prescription Hand cut with chainsaws for a wildlife habitat project as per Wildlife Biologist specifications & volunteer agreement.

Specs:

Other Comments: Volunteers from the Beaver Island Club plan to drop trees during winter months to create habitat and expand aspen, where not commercially viable. Harvest efforts to be managed by Wildlife Division.

Next Steps: Monitor success of regeneration. Aspen with other associated lowland species is acceptable. If regen fails notify Wildlife Division.

Proposed

Start Date: 10/01/2015

10	52065010-Cut_small	15.0	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	27	51-80	Harvest	Clearcut	613 - Lowland Mixed Forest	Cmpt. Review Proposal
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Prescription Treat for a wildlife habitat project as per Wildlife Biologist specifications and volunteer agreement.

Specs:

Other Comments: Volunteers from beaver island club plan to drop trees during winter months to create habitat & expand aspen where not commercially viable. Harvest efforts to be managed by Wildlife Division.

Next Steps: Monitor success of regeneration. Mixed lowland forest species with an aspen component is acceptable. If regen fails notify Wildlife Division.

Proposed

Start Date: 10/01/2015

**Total Treatment
Acreage Proposed: 60.4**

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28 52065028-Cut	54.9	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	84	51-80	Harvest	Clearcut	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal

Prescription Treat for a wildlife habitat project as per Wildlife Biologist specifications & volunteer project.

Specs:

Other Comment: Volunteers from the Beaver Island Club plan to drop trees during winter months to create habitat and expand aspen, where not commercially viable. Harvest efforts to be managed by Wildlife Division.

Next Steps: Monitor success of regeneration. Mixed lowland deciduous & mixed conifer species is acceptable. If regen fails, notify Wildlife Division.

Proposed Start Date: 10/01/2015

Limiting Factor 4A: No merchantable products (see product standards)

**Total Treatment
Acreage Proposed: 54.9**

Report 5 – Site Conditions

Gaylord Mgt. Unit
Kim Lentz : Examiner

Compartment 065
Year of Entry 2016

Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	4A	3K
	Available	Not Available				
43	43		Aspen	4	39	
85	85		Lowland Aspen/Balsam Poplar	85		
52	52		Lowland Conifers		52	
443	312	130	Lowland Deciduous	258	55	130
141	141		Lowland Mixed Forest	141		
7	7		Northern Hardwood	7		
98	98		Upland Conifers	98		
26	26		Upland Mixed Forest	26		
11	11		White Pine	11		
906	776	130	Total Forested Acres	630	146	130
	86%	14%	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
002	Available	4A: No merchantable products (see product standards)	15	No Limiting Factor			
Comments: Products would normally be merchantable, but due to the logistics of logging on an island, it is cost prohibitive to transport logging equipment, then harvest, barge, and transport pulpwood products off the island to the mainland.							
003	Available	4A: No merchantable products (see product standards)	25				
Comments: Products would normally be merchantable, but due to the logistics of logging on an island, it is cost prohibitive to transport logging equipment, then harvest, barge, and transport pulpwood products off the island to the mainland.							

Report 5 – Site Conditions

Gaylord Mgt. Unit
Kim Lentz : Examiner

Compartment 065
Year of Entry 2016

004	Available	4A: No merchantable products (see product standards)	55
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Comments:

Products would normally be merchantable, but due to the logistics of logging on an island, it is cost prohibitive to transport logging equipment, then harvest, barge, and transport pulpwood products off the island to the mainland.

005	Available	4A: No merchantable products (see product standards)	52
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Comments:

Products would normally be merchantable, but due to the logistics of logging on an island, it is cost prohibitive to transport logging equipment, then harvest, barge, and transport pulpwood products off the island to the mainland.

006	Not Available	3K: Rare or unique landforms	88
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Comments:

007	Not Available	3K: Rare or unique landforms	43
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Comments:



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
Bill Wagner Memorial Campground Comments	Concentrated Recreation Area	State Forest Campground	SCA	17.1
Remnant Dune Area Comments	Contiguous Resource Area		SCA	42.7
Lowland drainage with low depressions with standing water & low to moderately stocked lowland hardwood & cedar. Stand is variable with narrow parallelling ridges of higher ground with W7, C5, A7 some of which attain 30" dbh.				
Remnant Dune Area Comments	Contiguous Resource Area		SCA	185.7
Jim Wojan Comments	Mineral Resource Area	Sand or Gravel Pit	SCA Removal	3.6
Unused gravel pit				
8A Comments	Other SCA		SCA Removal	27.1
UNIQUE HEMLOCK STAND WITH WHITE PINE LOGS IN NORTH. 2004 - Unique H9 stand with intermixed red maple logs. White birch, balsam fir dying off.				
8B Comments	Other SCA		SCA Removal	56.8
Beaver Island Nature Trail starts in this stand along East Shore Drive. Variable stand.				
type2 Comments	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA Removal	241.8
Element Occurrence				



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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
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:
1	4130 - Aspen	High Density Pole	18.9	65	81-110	Quaking aspen with a some scattered red oak, ash, birch, & red maple. Wildlife shrubs on site include: service berry, hawthorne, & cherry, Noted there are wet pockets in stand primarily in the north & west.
4	42200 - Natural White Pine	High Density Pole	10.8	45	51-80	Natural white pine small polestand. Lots of W3 developing. Red pine is primarily in the southeast part of stand which appeared to be planted, but no records.
5	4137 - Aspen, Birch	High Density Pole	24.6	65	81-110	Aspen is primary species but there is minor component of red oak, sugar maple, tamarak, bam, ash, & all the swamp conifer species. This is similar to adjacent stand 11.
7	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	87.8	85	51-80	Stand has overmature, cull quaking aspen & balsam poplar in overstory that has mortality. The future stand will be primarily swamp conifer with balsam fir, cedar, white pine, & hemlock. Stand had a variety of 11 different species noted including good quality red oak & sawlog size cedar, white pine, & hemlock in the north forty. **Some of the white pine & oak measured up to 30"dbh.
9	6132 - Mixed Lowland Forest with Cedar	High Density Pole	13.5	30	51-80	Mix of black ash, red maple, tamarak, white cedar, & balsam poplar with occasional tag alder.
10	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	257.7	27	51-80	Stand was patch clearcut in 1987 by Bob Graves. Majority of stand has good advanced regeneration of aspen, sugar maple, red maple, birch and balsam fir, and some red oak saplings. Stand is variable with pockets of E3, and mixed swamp conifer some of which was not cut. The overtopping aspen, white birch, and bam is cull and dying out of stand. Some areas with blowdown and variable watertable with wet ground. The most upland site in stand is centrally located within the old established logging trail.
12	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	42.7	91	1-50	Lowland drainage with low depressions with standing water & low to moderately stocked lowland hardwood & cedar. Stand is variable with narrow parallelling ridges of higher ground with W7, C5, A7 some of which attain 30" dbh.
13	429 - Mixed Upland Conifers	High Density Log	60.5	92	111-140	Natural stand of sawlog size red pine with intermixed red oak & white pine on dunal ridges. The southern portion of stand has a higher % of Aspen/Oak. Unique stand which has a type 2 Old Growth designation (SCA) Noted white pine, balsam fir, and hemlock in understory.
16	429 - Mixed Upland Conifers	High Density Log	37.5	94	81-110	Dunal ridges of natural hemlock, white pine, red pine, mixed with maple, cedar, birch. Very unique stand which has been recommended as an SCA with a type 2 Old Growth Designation. (Northeast part of stand has more white cedar in the transition to the hemlock.)
17	4310 - Pine, Oak Mix	High Density Log	17.1	92	81-110	Township campground leased to Peaine Twp. by the state. (Bob Wagner Memorial Campground) Forested stand is a mixture of natural white pine, red pine, and red oak sawtimber. Some of the campground has dense white pine regeneration. Primitive camping provided with pit toilets and Lake Michigan access.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	52.4	100	111-140	Swamp conifer pole stand with overtopping aspen 20" dbh. Some more open areas with Q4, 07, M2. Pockets of dense balsam fir in understory. Very nice cedar poles/logs in some areas. Only access is hunter marked walk-in trails. Some lowland hardwoods along eastern boundary which is part of the wetland drainage.
20	4319 - Mixed Upland Forest	High Density Pole	9.1	55	51-80	Variable stand on upland ridge adjacent to water drainage to the north. Stand includes dense balsam fir in center with sugar maple (M6, W7) on the east edge, and (M3, White Birch 8 on the west edge). Note: The best access across the water (beaver flooding) in stand 19 is to go north across the eastern edge of this stand across a small clearing from Johnny Martin's Rd. White Birch has 50% mortality.
24	6132 - Mixed Lowland Forest with Cedar	High Density Pole	127.3	94	81-110	Swamp conifer stand with overtopping balm of gilead, birch, & aspen.
25	6112 - Lowland Aspen	High Density Pole	85.3	26	51-80	Very nice looking aspen with mixed hardwood and balsam fir. Some low, wet sites in this stand with lowland hardwood & pockets with lowland shrub. Noted heavy scale on beech. More of a hardwood component in the south, and a higher % of bam by beaver meadow.
27	4115 - Y.Birch, Hemlock NH	High Density Pole	6.7	89	81-110	Northern hardwood pole stand with some flooding at south edge. Noted some tip ups & mortality.
28	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	54.6	84	51-80	Overtopping quaking aspen & bam of non-commercial quality. Balsam fir is primarily in understory. White birch has died out of overstory. Variable pockets with water and swamp conifer species.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	3303 - Mixed Low Density Trees	11.5	No	Unspecified	Opening filling in with white birch & pine.
3	629 - Mixed non-forested wetland	6.0	No	Unspecified	Old beaver flooding which caused tree mortality. Some tree regeneration of lowland hardwood & swamp conifer species.
6	6239 - Mixed Emergent Wetland	7.6	No	Unspecified	Old flooded area with widely scattered black ash, fir, & willow.
8	6233 - Wet Meadow	11.5	No	Unspecified	Old beaver meadow.
11	6229 - Mixed lowland shrub	14.6	No	Low	
14	629 - Mixed non-forested wetland	39.3	No	Unspecified	
15	50 - Water	3.4	No	Unspecified	
19	50 - Water	4.7	No	Unspecified	
21	720 - Exposed Rock	4.1	No	Unspecified	Old gravel pit on state land that is leased. Currently not being utilized.
22	6239 - Mixed Emergent Wetland	18.6	No	Unspecified	Old beaver meadow. Mix of N & L patches. Widely scattered cedar, larch, and black ash saps with willow.
23	50 - Water	1.7	No	Unspecified	
26	6229 - Mixed lowland shrub	39.8	No	Low	Low density trees mixed with lowland shrub. Stream running through stand. Beaver flooding in past caused tree mortality. Noted: high bush cranberry & birch saps.