



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 44

Entry Year 2015

Acreage: 4,438

County Charlevoix

Management Area: Jordan Valley

Revision Date: 02/20/2013

Stand Examiner: Zach Crew

Legal Description:

32N 05W Sections 1-3,5,6,11,15,16,19,24,25,27,29-36
32N 06W Section 25

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:

The soils in this compartment are typically either mucks from the Tawas – Carbondale or Lupton – Cathro associations or loamy sands from the Kalkaska – Leelanau or Emmet – Leelanau associations. The east and south areas of the compartment are hardwood ridges that vary in grade. The other sections of the compartment are mostly lowland swamp types that are relatively flat with a very high water table.

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

Ownership is fairly contiguous throughout the compartment except for a small inholding in the west side of the compartment. Boyne Mountain is just to the north of the compartment as well as the town of Boyne Falls. Most of the surrounding area is either wooded lowlands or there are a few areas that are currently in farm land.

Unique Natural Features:

The Kondrat swamp is a large complex in the Northwest of this compartment that provides substantial habitat to a variety of flora and fauna.

Archeological, Historical, and Cultural Features:

There were a few HAL hits in 32N 05W Sections 25, 36, but after contacting the appropriate staff it was determined that these areas aren't effected by any treatments.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment is in the Boyne and Jordan River watersheds. Many small streams such as Schoolhouse Creek, Moyer Creek, North Branch Boyne River, Warner, Eaton, Cramer, and Deer creek are found within the compartment. Though none of the treatments proposed appear as if they will impact these larger bodies of water, the small tributaries in the lowlands should be protected with the appropriate BMP's and any pertinent Natural River Buffers.

Wildlife Habitat Considerations:

This compartment consists of an upland area consisting of northern hardwoods and aspen and a large wetland complex that lies in the northwest corner of the compartment. A couple of treatments are prescribed in this complex to regenerate the cedar component of the area. This wetland complex is used by numerous furbearers, white-tailed deer, and a variety of amphibian and songbird species. There will be a few aspen treatments within this compartment to maintain age class diversity. This early successional habitat benefits white-tailed deer, wild turkey, ruffed grouse, woodcock, and various songbirds. A portion of the hardwoods will be treated to add structural diversity to the stands.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till and an end moraine of coarse-textured till (uplands) and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 600 feet. Beneath the glacial drift are the Antrim and Ellsworth Shales. The Antrim is quarried for cement products elsewhere in the State. Several gravel pits are located on the moraine deposits and the upland areas appear to have good potential. Oil and gas potential in the area is primarily for the Antrim Shale gas play. All parcels have been classified as nondevelopment – reason? Some of the State land is being drained of hydrocarbons.

Vehicle Access:

Access to this compartment is either off of Geim Road or Kuzmik Road in the east or Grygier Road in the West. Most of the access throughout the stand is severely worn forest roads some of which are impassable to vehicles and have been reported as RDRs. The south side of the compartment is also accessible via many small two tracks.

Survey Needs:

None

Recreational Facilities and Opportunities:

There are two boat launches in this compartment, one on Deer Lake and one at the Boyne Falls pond. There is also river access to the Boyne in the Northwest part of the compartment. The North Country path way travels through the east half of the compartment.

Fire Protection:

This area is covered by the Boyne Valley VFD as well as the Bellaire and Gaylord Field Offices. Large scale fire events are not likely to occur in this area due to the forest types found in this compartment.

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**

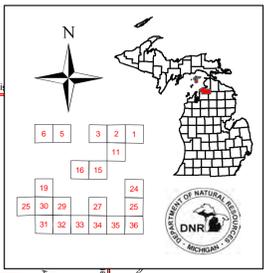
The following information is displayed, where pertinent, on the attached compartment maps:

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

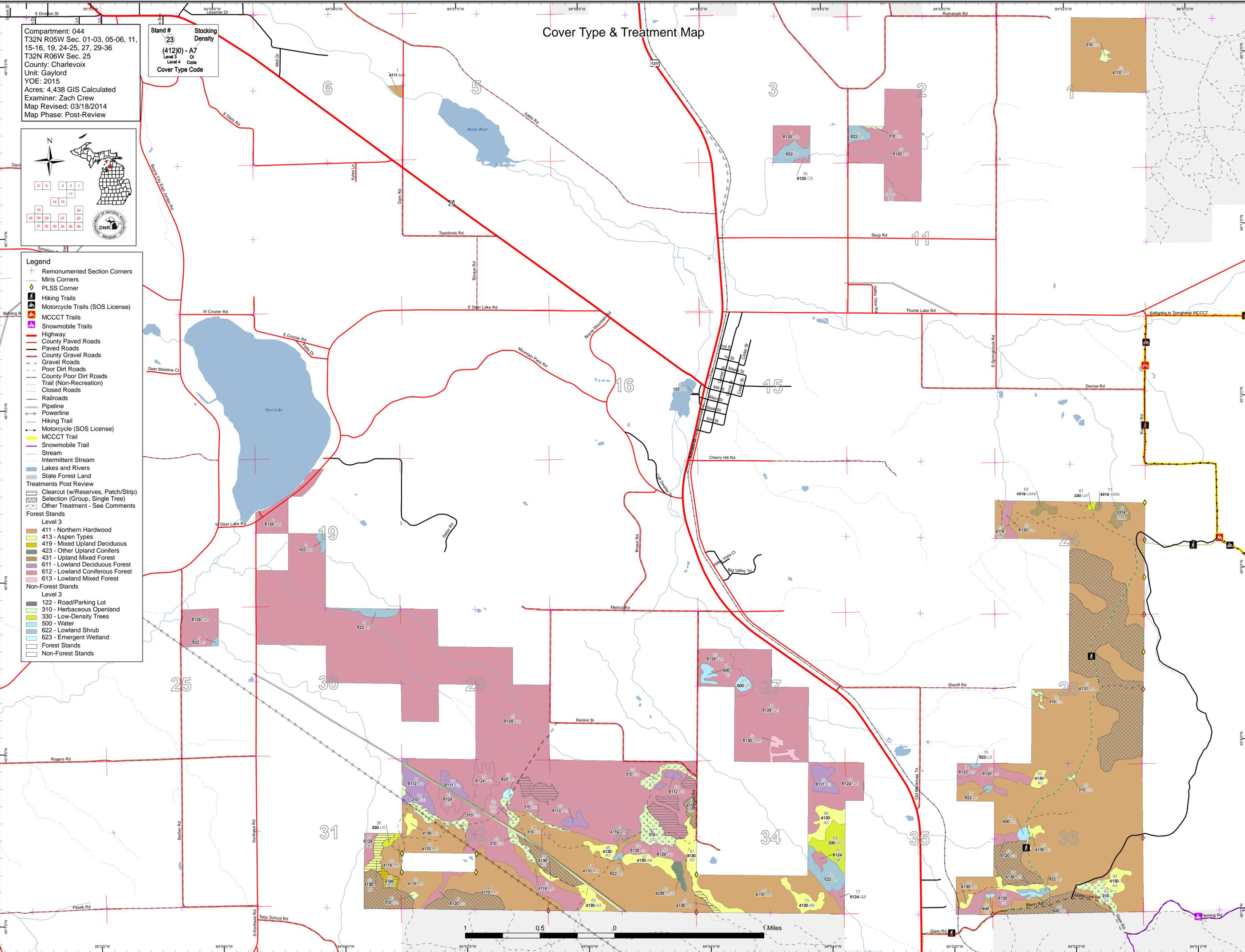
Cover Type & Treatment Map

Compartment: 044
 T32N R05W Sec. 01-03, 05-06, 11,
 15-16, 19, 24-25, 27, 29-36
 T32N R06W Sec. 25
 County: Charlevoix
 Unit: Gaylord
 YOY: 2015
 Acres: 4,438 GIS Calculated
 Examiner: Zach Crew
 Map Revised: 03/18/2014
 Map Phase: Post-Review

Stand #
 (412)0 - A7
 Level 3
 Level 4
 Code
 Cover Type Code



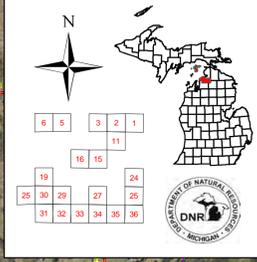
- Legend**
- Remonumented Section Corners
 - Miris Corners
 - PLSS Corner
 - Hiking Trails
 - Motorcycle Trails (SOS License)
 - MCCCT Trails
 - Snowmobile Trails
 - Highway
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Trail (Non-Recreation)
 - Closed Roads
 - Railroads
 - Pipeline
 - Powerline
 - Hiking Trail
 - Motorcycle (SOS License)
 - MCCCT Trail
 - Snowmobile Trail
 - Stream
 - Intermittent Stream
 - Lakes and Rivers
 - State Forest Land
- Treatments Post Review**
- Clearcut (w/Reserves, Patch/Strip)
 - Selection (Group, Single Tree)
 - Other Treatment - See Comments
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 423 - Other Upland Conifers
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 122 - Road/Parking Lot
 - 310 - Herbaceous Openland
 - 330 - Low-Density Trees
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland
 - Forest Stands
 - Non-Forest Stands



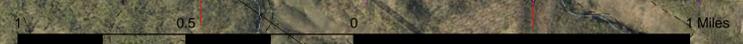
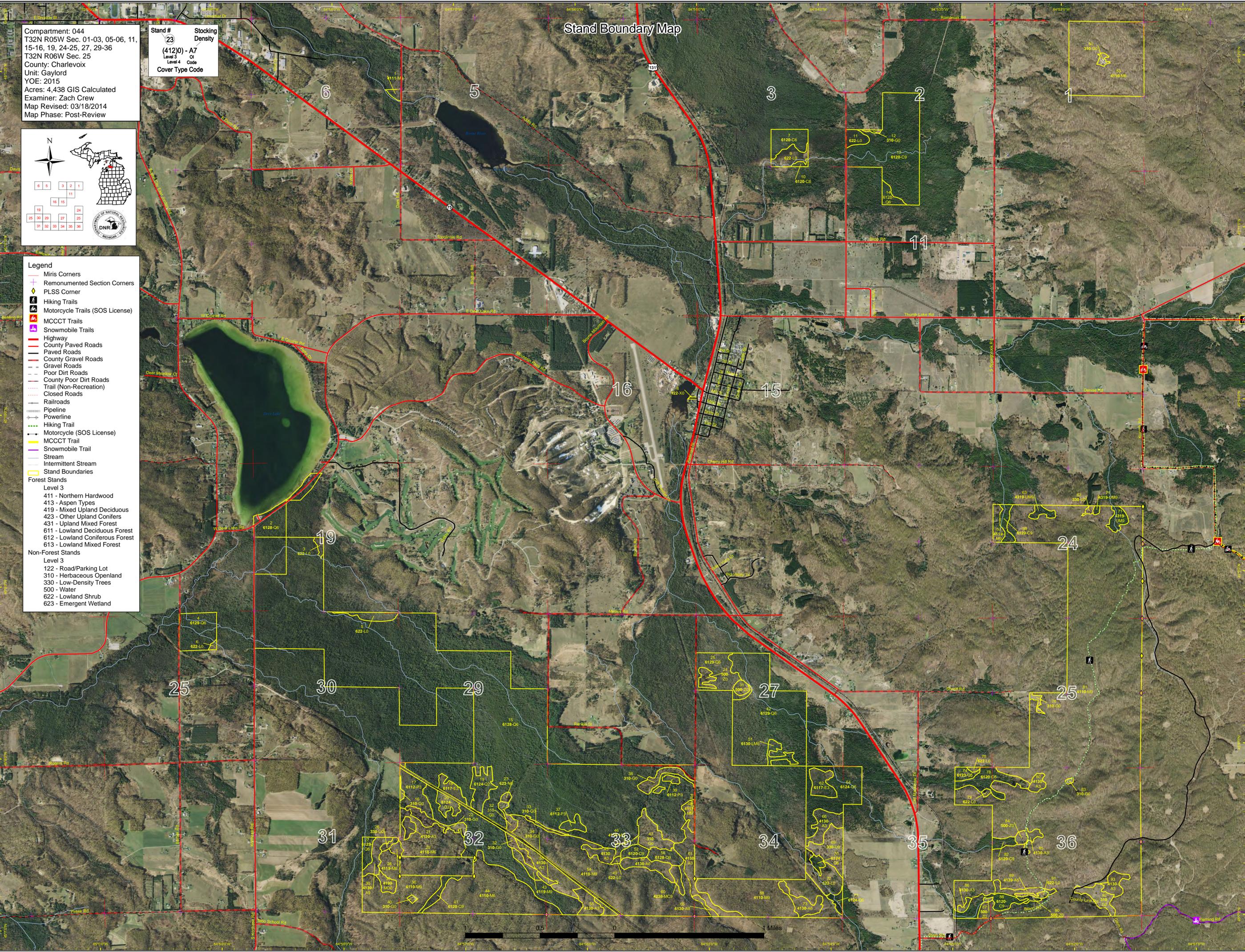
Stand Boundary Map

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15-16, 19, 24-25, 27, 29-36
T32N R06W Sec. 25
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Unit: Gaylord
YOE: 2015
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Map Revised: 03/18/2014
Map Phase: Post-Review

Stand #
(4120) - A7
Level 3
Level 4
Code
Cover Type Code



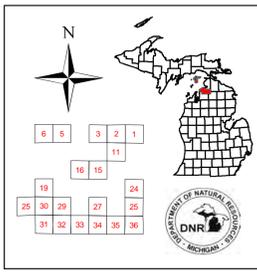
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Special Conservation Areas & Site Conditions Map

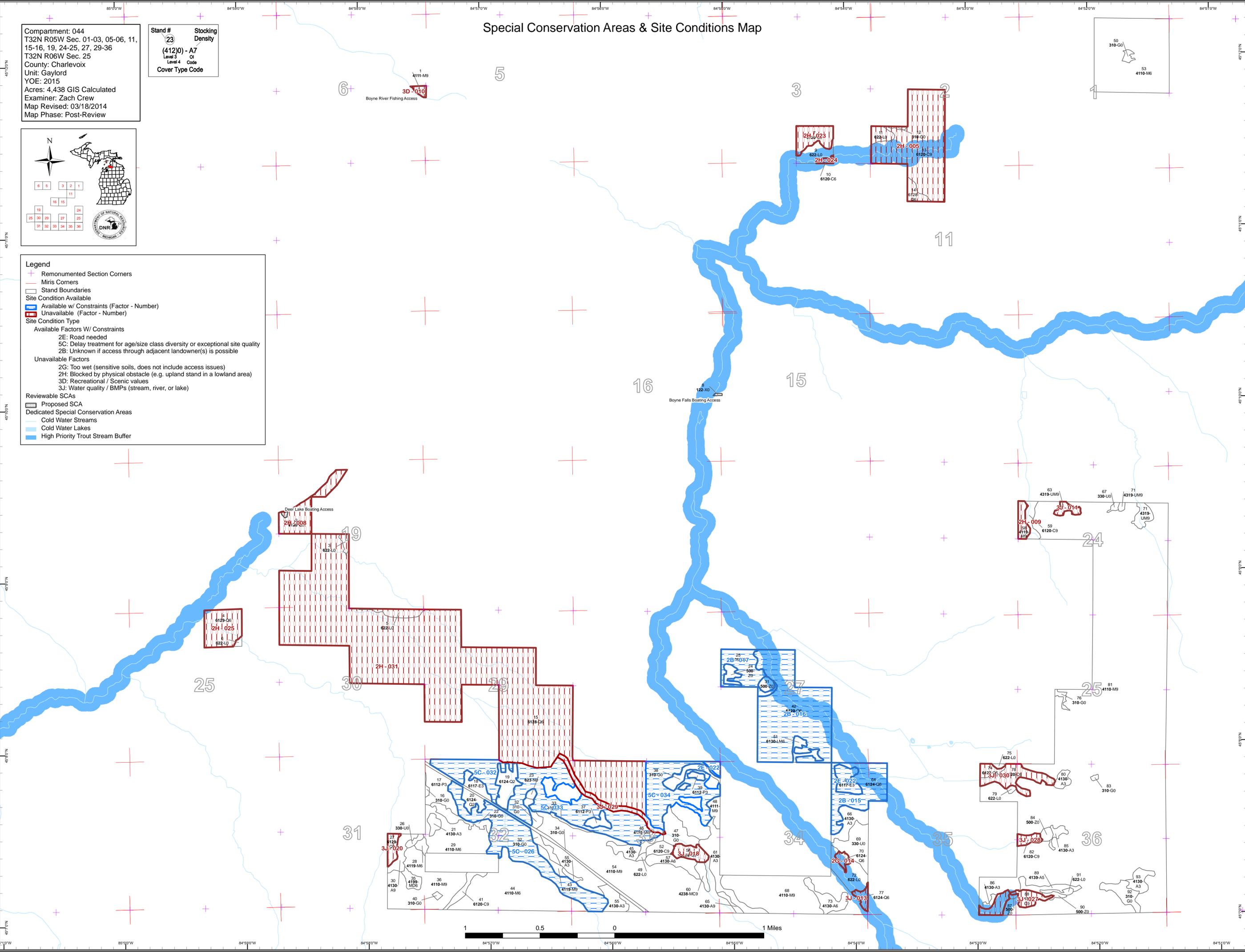
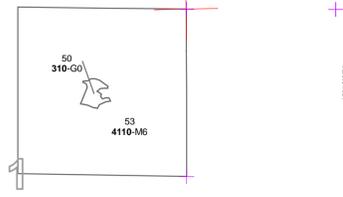
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Stand # Staking
 Density
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 Level 4 Code
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Legend

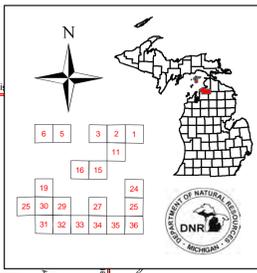
- Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Site Condition Type
- Available Factors W/ Constraints
 - 2E: Road needed
 - 5C: Delay treatment for age/size class diversity or exceptional site quality
 - 2B: Unknown if access through adjacent landowner(s) is possible
- Unavailable Factors
 - 2G: Too wet (sensitive soils, does not include access issues)
 - 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
 - 3D: Recreational / Scenic values
 - 3J: Water quality / BMPs (stream, river, or lake)
- Reviewable SCAs
- Proposed SCA
- Dedicated Special Conservation Areas
 - Cold Water Streams
 - Cold Water Lakes
 - High Priority Trout Stream Buffer



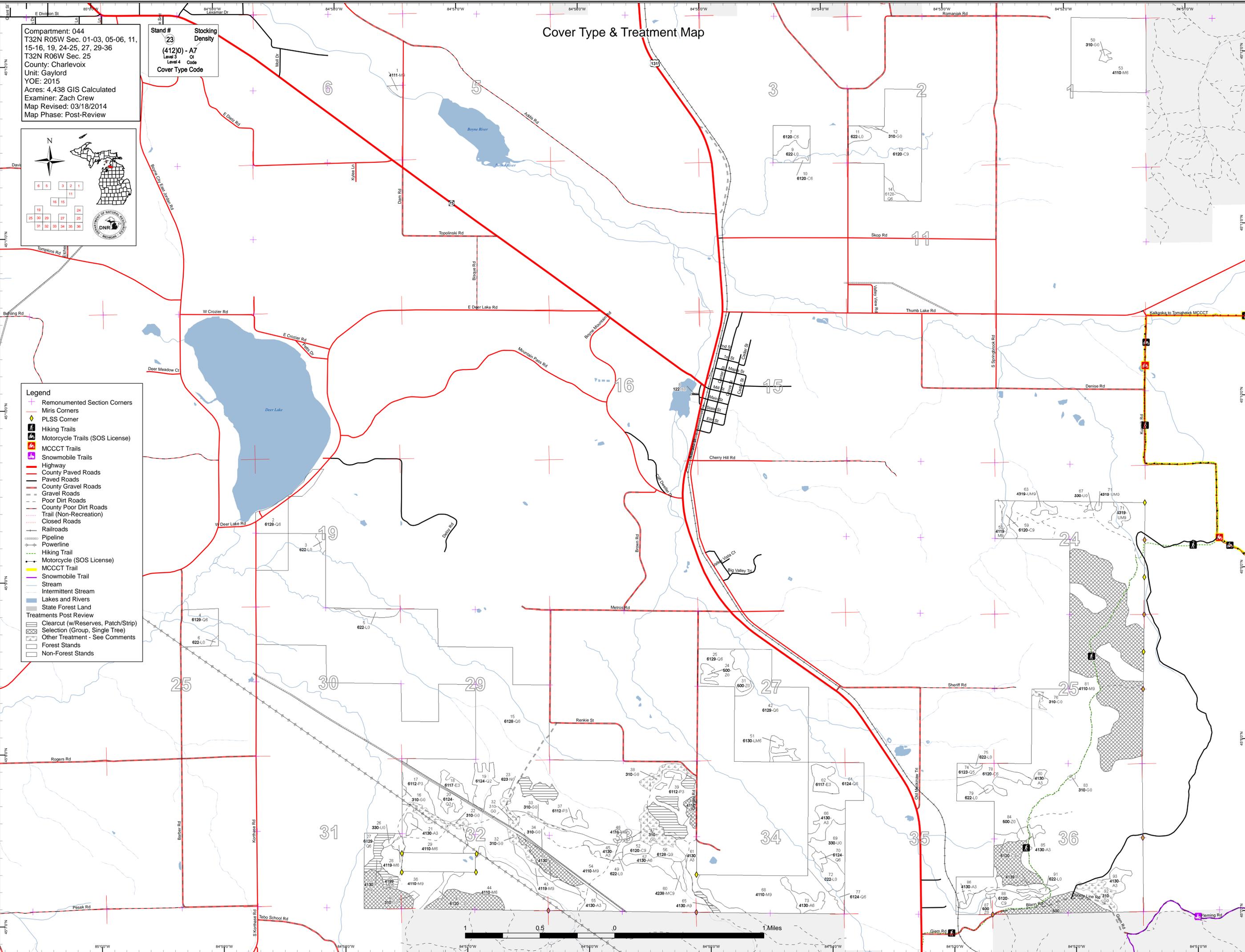
Cover Type & Treatment Map

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 23
 Stocking
 Density
 (4120) - A7
 Level 3
 or
 Level 4
 Code
 Cover Type
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Report 1 – Total Acres by Cover Type and Age Class



	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	64	54	19	10	13	4	0	0	0	0	0	0	0	163
Cedar	0	0	0	0	0	0	0	17	55	151	21	0	0	0	245
Herbaceous Openland	109	0	0	0	0	0	0	0	0	0	0	0	0	0	109
Low-Density Trees	32	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Aspen/Balsam Poplar	0	30	0	7	0	0	0	0	0	0	0	0	0	0	37
Lowland Conifers	0	30	0	0	0	15	0	51	1270	254	10	0	0	0	1630
Lowland Deciduous	0	10	16	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Mixed Forest	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8
Lowland Shrub	71	0	0	0	0	0	0	0	0	0	0	0	0	0	71
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Northern Hardwood	0	0	4	0	0	0	138	1605	317	0	0	0	0	0	2064
Upland Conifers	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Upland Mixed Forest	0	0	0	0	0	0	0	11	6	0	0	0	0	0	17
Urban	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Total	234	134	74	26	18	35	142	1691	1648	406	32	0	0	0	4438



Report 2 – Proposed Treatment Summaries

Gaylord Mgt. Unit
Year of Entry 2015

Compartment 044
Total Compartment Acres: 4,438

Acres by Treatment Type

Commercial Harvest - 507 Tree Planting - 0 Other - 0
 Habitat Cut - 0 Opening Maintenance - 84

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>
Aspen Types	16	0	0	0	0	0	16
Lowland Coniferous Forest	45	0	0	0	0	0	45
Mixed Upland Deciduous	7	0	0	0	0	0	7
Northern Hardwood	0	439	0	0	0	0	439
Total	68	439	0	0	0	0	507



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
15	52044015_CC	16.0	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	85	111-140	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Stand is to be clearcut in appropriate winter conditions only. Mark out 6 half acre patches within the sale area to leave for retention purposes.										
<u>Specs:</u> Tops should be lopped and scattered throughout the sale. Do not cut white pine or hemlock. The retention should be left in strips to facilitate a seed source.										
<u>Other</u> A mix of cedar, balsam fir, spruce, balsam poplar, and red maple is expected to regenerate in this stand										
<u>Comments:</u>										
<u>Next</u> Regen survey in 10 years										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
15	52044015_Eas t-Cut_small	25.1	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	85	111-140	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Stand should be clearcut, leaving 6 half acre or bigger patches as retention. Also this should be a winter cut only, no exceptions, and the tops										
<u>Specs:</u> should be lopped and scattered on site. do not cut white pine or hemlock. The retention should be left in strips oriented from SW to the NE. Crane mats or a bridge will be needed to cross a small creek.										
<u>Other</u> Regen should be a mix of cedar, spruce, balsam poplar, balsam fir, red maple, and birch. Due to winter cut woodland vole shouldn't be disturbed.										
<u>Comments:</u>										
<u>Next</u> Regen survey in 10 years										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
15	52044015_Nor theast-Cut	3.7	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	85	111-140	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Clear cut stand, leave all hemlock and white pine. Winter cut only. Lop and scatter tops on the site. Mark a few spruce or fir trees to cut and										
<u>Specs:</u> leave next to hemlock clumps to act as nurse logs.										
<u>Other</u> Regen should be a mix of cedar, balsam poplar, balsam fir, spruce, red maple, paper birch, and hopefully a few hemlock. Due to winter cut										
<u>Comments:</u> woodland vole should not be disturbed.										
<u>Next</u> regen survey in 10 years										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
30	52044030-Cut	12.6	4130 - Aspen	High Density Log	59	171-200	Harvest	Clearcut with Reserves	4130 - Aspen	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Clear cut stand, retention should be along the west boundary in areas where it is to steep to operate, do no cut any WHITE PINE. This should										
<u>Specs:</u> not hinder any aspen regen. Be aware that the powerline company should be contacted when crossing Kondrat Creek and the bridge may need to be improved.										
<u>Other</u> Aspen should be the predominant species that will regenerate										
<u>Comments:</u>										
<u>Next</u> Regen survey										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
35	52044035-Cut	7.2	4199 - Other Mixed Upland Deciduous	High Density Pole	58	1-50	Harvest	Clearcut	4130 - Aspen	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Clearcut stand to promote aspen regeneration, no retention due to small stand size, be sure to use the 2 inch spec clear the site as much as possible. Be aware that the powerline company should be contacted when crossing Kondrat Creek and the bridge may need to be improved.										
<u>Specs:</u>										
<u>Other</u> Aspen should be the predominant species to regenerate, but there will probably be a mix of other northern hardwood species as well										
<u>Comments:</u>										
<u>Next</u> regen survey										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
36	52044036-Cut	35.2	4110 - Sugar Maple Association	High Density Log	85	51-80	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Thin stand to roughly 80 BA, follow the marking guidelines. Make sure to establish 75 foot diameter regen gaps. Cut all ash and beech except those beech that exhibit resistance to BBD. Do not cut aspen. Leave 1 gap per 2 - 5 acres. Be aware that the powerline company should be contacted when crossing Kondrat Creek and the bridge may need to be improved. When setting up the sale try to obtain private access from the south.										
<u>Specs:</u>										
<u>Other</u> Expected regen should be a mix of beech, sugar maple, ironwood, and basswood. Red Shoulder Hawk last observed in area in 04/2000, in east corner of stand. No nest was observed during inventory										
<u>Comments:</u>										
<u>Next</u> regen survey										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
44	52044044-Cut	32.5	4110 - Sugar Maple Association	High Density Pole	69	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Thin stand to roughly 80 BA, follow marking guidelines. Be sure to establish 75 foot diameter regen holes. Cut all ash and beech except those beech that exhibit resistance to BBD. Do not cut aspen. Leave 1 gap per 2 - 5 acres. Be aware that the powerline company should be contacted when crossing Kondrat Creek and the bridge may need to be improved. When setting up the sale discuss access across private landowners from the south with the appropriate parties.										
<u>Specs:</u>										
<u>Other</u> Expected regen should be a mix of sugar maple, beech, basswood, and ironwood. Red Shoulder Hawk last observed in area in 04/2000										
<u>Comments:</u>										
<u>Next</u> regen survey										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
48	52044048-Cut	8.0	4111 - S.Maple, Hard Mast Association	High Density Log	85	111-140	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Stand should be thinned to 80 BA, follow marking guidelines, cut all beech and ash, except those beech that exhibit any resistance to BBD										
<u>Specs:</u>										
<u>Other</u> stand is probably to small for commercial operation and would be better suited to a firewood operation										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
54 52044054-Cut	22.1	4110 - Sugar Maple Association	High Density Log	87	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Portion of stand to the west of the powerline should be thinned to 80 BA, follow marking guidelines. All and ash and beech should be cut except for those Beech that exhibit resistance to BBD. Be sure to put in 75 ft diameter regen gaps. Leave 1 gap per 2 - 5 acres. Be aware that the powerline company should be contacted when crossing Kondrat Creek and the bridge may need to be improved.</p> <p><u>Specs:</u></p> <p><u>Other</u> Expect regen of beech, ironwood, and maple in regen gaps. If basswood is cut expect stump sprouts.</p> <p><u>Comments:</u></p> <p><u>Next</u> regen survey</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2014</p>									

65 52044065-Cut	3.7	4130 - Aspen	High Density Log	69	81-110	Harvest	Clearcut	4130 - Aspen	Fld. Tr. Bdy.
<p><u>Prescription</u> Clearcut stand, no retention due to small size. May need to be packaged with another cut to make it economically desirable for a producer to move equipment in. Stand is to be added to the adjacent Harbringer HDWDS sale to the south.</p> <p><u>Specs:</u></p> <p><u>Other</u> Aspen should be the predominant species to regenerate</p> <p><u>Comments:</u></p> <p><u>Next</u> regen survey</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2012</p>									

81 52044081-Cut_small	266.3	4110 - Sugar Maple Association	High Density Log	77	81-110	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Thin stand to 80 BA, follow the marking guidelines. Cut all ash and beech except those beech that exhibit resistance to BBD. Be sure to mark out 75 ft wide regen gaps. Be sure to only allow crossing the north country pathway in certain locations and do not mark any trees within 10 feet of the pathway. Leave 1 gap per 2 - 5 acres</p> <p><u>Specs:</u></p> <p><u>Other</u> There was a HAL hit in this area but according to Stacy Tchorzynski the treatment boundary falls outside of the HAL site. Sugar maple, beech, and ironwood should regen in the canopy gaps, and basswood should sprout where it is cut</p> <p><u>Comments:</u></p> <p><u>Next</u> regen survey</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2014</p>									

81 52044081-Cut_South	35.1	4110 - Sugar Maple Association	High Density Log	77	81-110	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Thin stand to 70 BA, follow the marking guidelines. Cut all ash and beech except those beech that exhibit resistance to BBD. Be sure to mark out 75 ft wide regen gaps. The treatment area is everything south of Geim road to the compartment boundary. Leave 1 gap per 2 - 5 acres</p> <p><u>Specs:</u></p> <p><u>Other</u> There was a HAL hit in the area but according to Stacy Tchorzynski the treatment is outside of the HAL site. Sugar maple, beech, and ironwood should regen in the canopy gaps, and basswood should sprout where it is cut</p> <p><u>Comments:</u></p> <p><u>Next</u> regen survey</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2014</p>									



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
81	52044081- Cut_West	39.4	4110 - Sugar Maple Association	High Density Log	77	81-110	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Fld. Tr. Bdy. - Incomplete

Prescription Thin stand to 80 BA, follow the marking guidelines. Cut all ash and beech except those beech that exhibit resistance to BBD. Be sure to mark
Specs: out 75 ft wide regen gaps. Leave 1 gap per 2 - 5 acres.

Other There was a HAL hit in the area but according to Stacy Tchorzynski the treatment boundary is outside of the HAL site. Sugar maple, beech, and
Comments: ironwood should regen in the canopy gaps, and basswood should sprout where it is cut

Next regen survey
Steps:

Proposed
Start Date: 10/01/2014

22	NF_52044022- NonFor	13.1	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Fld. Tr. Bdy. - Incomplete
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Prescription Opening Maintenance
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: Unspecified

32	NF_52044032- NonFor	13.9	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Fld. Tr. Bdy. - Incomplete
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Prescription Opening Maintenance
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: Unspecified

33	NF_52044033- NonFor	3.4	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Fld. Tr. Bdy. - Incomplete
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Prescription Opening Maintenance
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: Unspecified

38	NF_52044038- NonFor	12.5	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Fld. Tr. Bdy. - Incomplete
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Prescription Opening Maintenance
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: Unspecified



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
47	NF_52044047- NonFor	21.9	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Opening Maintenance										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
76	NF_52044076- NonFor	2.8	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Opening maintenance										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
83	NF_52044083- NonFor	1.0	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Opening maintenance										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
92	NF_52044092- NonFor	15.2	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Opening maintenance										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										

**Total Treatment
Acreage Proposed: 590.8**



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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
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

Total Treatment
Acreage Proposed: 0.0

Report 5 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment 044
Year of Entry 2015

Availability for Management

Total Acres	Acres		Dominant Site Conditions	Dominant Site Conditions							
	Available	Not Available		No	5C	3J	3D	2H	2G	2E	2B
163	163		Aspen	163							
245	26	219	Cedar	26		54		165			
37	37		Lowland Aspen/Balsam Poplar	37							
1630	710	921	Lowland Conifers	75	354	51		864	5	4	277
26	26		Lowland Deciduous	10						16	
8	8		Lowland Mixed Forest	8							
7	7		Mixed Upland Deciduous	7							
2064	2051	13	Northern Hardwood	2,051			3	10			
6	6		Upland Conifers	6							
17	11	6	Upland Mixed Forest	11		6					
4,203	3,045	1,158	Total Forested Acres	2,394	354	112	3	1,039	5	20	277
	72%	28%	Relative Percent								

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
005	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	158	2E: Road needed			
Comments:							
008	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	36	2B: Unknown if access through adjacent landowner(s) is possible	2E: Road needed		
Comments:							

Report 5 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment 044
Year of Entry 2015

009	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	3J: Water quality / BMPs (stream, river, or lake)	2D: Portable Bridge Needed (Dept. bridge will be adequate)
Comments:					
010	Not Available	3D: Recreational / Scenic values	3		
Comments:					
011	Not Available	3J: Water quality / BMPs (stream, river, or lake)	6		
Comments:					
013	Not Available	3J: Water quality / BMPs (stream, river, or lake)	6	2G: Too wet (sensitive soils, does not include access issues)	2E: Road needed 2B: Unknown if access through adjacent landowner(s) is possible
Comments:					
014	Not Available	2G: Too wet (sensitive soils, does not include access issues)	5	3J: Water quality / BMPs (stream, river, or lake)	2B: Unknown if access through adjacent landowner(s) is possible
Comments:					
015	Available	2B: Unknown if access through adjacent landowner(s) is possible	59	2E: Road needed	3J: Water quality / BMPs (stream, river, or lake)
Comments:					

Report 5 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment 044
Year of Entry 2015

016	Available	2B: Unknown if access through adjacent landowner(s) is possible	181	2E: Road needed	3J: Water quality / BMPs (stream, river, or lake)
Comments:					
017	Available	2B: Unknown if access through adjacent landowner(s) is possible	37	2E: Road needed	
Comments:					
018	Not Available	3J: Water quality / BMPs (stream, river, or lake)	13		
Comments:					
020	Not Available	3J: Water quality / BMPs (stream, river, or lake)	8		
Comments:					
022	Available	2E: Road needed	20	2B: Unknown if access through adjacent landowner(s) is possible	
Comments:					
023	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	23	2B: Unknown if access through adjacent landowner(s) is possible	2E: Road needed
Comments:					

Report 5 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment 044
Year of Entry 2015

024	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	2B: Unknown if access through adjacent landowner(s) is possible	2E: Road needed
Comments:					
025	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	39	2E: Road needed	
Comments:					
026	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	106		
Comments:					
027	Not Available	3J: Water quality / BMPs (stream, river, or lake)	21		
Comments:					
028	Not Available	3J: Water quality / BMPs (stream, river, or lake)	6		
Comments:					
029	Not Available	3J: Water quality / BMPs (stream, river, or lake)	18	2E: Road needed	
Comments:					

Report 5 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment 044
Year of Entry 2015

030	Not Available	3J: Water quality / BMPs (stream, river, or lake)	34			
Comments:						
031	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	796	2E: Road needed	2B: Unknown if access through adjacent landowner(s) is possible	2D: Portable Bridge Needed (Dept. bridge will be adequate)
Comments:						
032	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42			
Comments:						
033	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	126			
Comments:						
034	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	80			
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
Boyne Falls Boating Access	Concentrated Recreation Area	Boat Access Site	SCA	0.5
Comments				
Deer Lake Boating Access	Concentrated Recreation Area	Boat Access Site	SCA	0.7
Comments				
Boyne River Fishing Access	Concentrated Recreation Area	Fishing Access Site	SCA	3.2
Comments				
hardwood stand along river giving access to it, signs posted stating no camping, those should removed, possible disposal parcel?				



Report 7 – 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	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	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4111 - S.Maple, Hard Mast Association	High Density Log	3.2	76	81-110	hardwood stand along river giving access to it, signs posted stating no camping, those should be removed, possible disposal parcel?
2	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	36.1	94	81-110	Mixed lowland stand with cedar and black ash, Boating Access in stand but not large enough to be broken out as a non forested stand, adjacent to deer lake and lots of streams
4	6129 - Mixed Coniferous Lowland Forest	High Density Pole	38.5	73	51-80	Very wet, lots of streams and creeks, scattered super canopy white pine
7	6120 - Lowland Cedar	High Density Pole	22.5	89	81-110	Low wet area, no access to this or stands 84 and 83
10	6120 - Lowland Cedar	High Density Pole	2.1	94	111-140	Lowland conifer, heavy signs of usage from deer, no access
13	6120 - Lowland Cedar	High Density Log	140.1	91	141-170	swamp of varying stocking and quality, lots of blowdown areas, seems to have multiple age classes, streams were mapped out to see if any logging was feasible
14	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	8.1	56	51-80	Similar to stand 5 except it seems to be younger (BAM and Aspen falling out, cedar starting to take over)
15	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	1,202.3	85	111-140	mixed q type, lots of areas of blowdown/low BA, variable stocking is typical with a stand this size, lots of water at the surface, very wet, south east portion of stand has most of the blowdown
17	6112 - Lowland Aspen	High Density Sapling	25.6	14		Aspen clear cut, a few scattered super canopy white pine were left
18	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	9.9	17		interesting mix of regenerating species, almost a pure birch stand
19	6124 - Lowland Spruce-Fir	Medium Density	19.9	16		Stand was harvested in 1988 as well as 1997. There were some strip cuts on the north end and a larger clearcut area in the south. Swamp conifer regen appears to be concentrated along the edge of the clearcut and in the strip cuts but is patchy. The larger clearcut seems to be mostly open water, tag alder, and some BAM.
20	6124 - Lowland Spruce-Fir	Medium Density	10.0	16		Cedar/fir/spruce starting to seed in, the area looks like it was previously flooded, possibly due to beaver activity, lots of small creeks
21	4130 - Aspen	High Density Sapling	5.6	14		regenerating aspen clear cut, there is a decent amount of other mixed hardwood species present
25	6129 - Mixed Coniferous Lowland Forest	High Density Pole	37.0	97	81-110	Mixed conifer stand, lots of water



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	6129 - Mixed Coniferous Lowland Forest	High Density Pole	8.3	82	111-140	Wet - really wet - lots of deer traffic
28	4119 - Mixed Northern Hardwoods	High Density Pole	3.9	26	1-50	regenerating M3/M6, age estimate is just a guess
29	4110 - Sugar Maple Association	High Density Pole	54.7	73	51-80	Northern hardwood stand, thinning was completed 4 years ago, not ready to be re entered, lots of beech sprouting, residual looks good
30	4130 - Aspen	High Density Log	12.6	59	171-200	Nice stocking - good growth and form on aspen trees, somewhat hilly, overlooks creek to west
35	4199 - Other Mixed Upland Deciduous	High Density Pole	7.2	58	1-50	mostly M3/M6 with aspen mixed in and some pockets of larger diameter aspen
36	4110 - Sugar Maple Association	High Density Log	80.4	85	51-80	Part of Hungry Bear Hardwoods sale (52-006-005-01), completed in 2009. Residual trees look good, understory if fairly undeveloped.
37	6112 - Lowland Aspen	High Density Sapling	6.9	31		lowland clearcut, old road bisects stand, old OI has stand origin at 1983
39	6112 - Lowland Aspen	High Density Sapling	4.2	16		strip cuts that were done by kondrat, combined into one multi part stand b/c the composition is similiar, however the ages are different by roughly 5 years, could not find specific cutting records for these two patches
41	6120 - Lowland Cedar	High Density Log	8.2	78	81-110	narrow valley with with a creek and plenty of seeps
42	6129 - Mixed Coniferous Lowland Forest	High Density Pole	181.1	95	81-110	Mixed swamp conifer, some areas of blown down and high water table
43	4119 - Mixed Northern Hardwoods	High Density Log	6.9	65	51-80	Edge of ridge that drops down in to swamp, scattered white pine
44	4110 - Sugar Maple Association	High Density Pole	121.7	69	81-110	Most of stand thinned in 1997 as part of Snowridge Hardwoods sale, lots of beech sprouts and ironwood in the understory, residual trees look good and healthy, evidence of BBD and EAB.
45	4130 - Aspen	High Density Sapling	9.9	15		Old aspen clearcut part of Rookie Aspen in 1999
46	4119 - Mixed Northern Hardwoods	High Density Pole	5.2	73	51-80	Small Hardwood Stand, low quality, high ridge between two wet areas
48	4111 - S.Maple, Hard Mast Association	High Density Log	8.0	85	111-140	small hardwood stand, easy access make and stocking make it ready for a thinning, small size may preclude any large scale logging operations, stand left as retention along road during cutting of Rookie Aspen to the south



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
51	6130 - Fir, Aspen, Maple	High Density Pole	8.4	41		Looks to be a stand developing from old strip cuts done in the swamp, previous inventory puts this stand at 40 years old but size of aspen doesn't support this, could be misleading due to limited growth on wet flooded sites.
52	6120 - Lowland Cedar	High Density Log	8.7	79	141-170	Creek running west to east through stand, nice quality cedar, good buffer for water quality
53	4110 - Sugar Maple Association	High Density Pole	156.9	77	51-80	North half of stand thinned as part of Fox Den Hardwoods (52-026-98-01), completed in 2001
54	4110 - Sugar Maple Association	High Density Log	228.2	87	81-110	Boyer Valley Hardwood (52-017-95-01), completed in 2001 in NW part of sale. East/West ridge running along southside of stand and down into lowland on the north. lots of seeps and creeks running in the valleys down into the lowlands would make harvesting in some areas problematic
55	4130 - Aspen	High Density Sapling	15.8	15		aspen clear cut, old logging road is blown out, is entered into the database as an RDR, multi part stand, cut in 1999 with Rookie Aspen
56	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	12.8	79	111-140	Lots of diversity in stand, small creek meanders through stand
57	4130 - Aspen	High Density Pole	16.1	26		Aspen clearcut, TCR states the stand was cut in 1988
58	4119 - Mixed Northern Hardwoods	High Density Log	9.5	67	111-140	Small northern hardwood stand separated from larger hardwood stand to the east by a creek. Severe ash mortality/EAB in the stand. Wet area in the middle of the stand surrounded by an inclusion of Bigtooth Aspen and developing hemlock, larger concentration of Sugar Maple poles in the south end
59	6120 - Lowland Cedar	High Density Log	9.2	98	81-110	lowland stand surrounding a north/south running creek, mix of mainly hemlock and cedar, signs of EAB mortality
60	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Log	6.0	76	81-110	Mix of mainly hemlock and cedar bordering a stream that flows into the swamp to the NW
61	4130 - Aspen	High Density Sapling	30.0	15		Aspen clearcut, part of Rookie Aspen sale in 1999
62	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	16.1	24		Stand was harvested from 1983 through 1995, 1990 was used as an average start age
63	4319 - Mixed Upland Forest	High Density Log	5.9	87	111-140	convergence of small feeder streams into a larger creek, mix of cedar with wet mesic hardwood types
64	6124 - Lowland Spruce-Fir	High Density Pole	59.1	83		No access to stand through private, edge call with data taken from previous inventory



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
65	4130 - Aspen	High Density Log	3.7	69	81-110	Small Aspen stand on a slope, not sure why it wasn't cut with the previous stand, could have been left for retention?
66	4130 - Aspen	High Density Sapling	18.8	39		A3 stand with some upland brush openings scattered throughout, no access across private
68	4110 - Sugar Maple Association	High Density Log	112.7	73	81-110	Part of Lost & Found HDWDS (52-010-05-01), completed sale in 2008. Residual showing good growth and form.
70	6124 - Lowland Spruce- Fir	High Density Pole	4.7	107		Mixed swamp conifer, stocking looks to have improved since previous inventory, no access across private
71	4319 - Mixed Upland Forest	High Density Log	10.9	79	51-80	mixed upland stand of mainly cedar and hemlock similar to stand 89
73	4130 - Aspen	High Density Pole	15.5	26		Regenerating aspen stand, lots of ironwood and a small amount of white ash saplings/poles as well
74	6123 - Lowland Fir	Medium Density Pole	6.9	58		Cedar dying out or already dead, unlike in pre inventory stand 26, is this because of water table?
77	6124 - Lowland Spruce- Fir	High Density Pole	5.7	107		Small swamp stand surrounded by flowing water, no access across private
78	6120 - Lowland Cedar	High Density Pole	26.6	83	81-110	coverage is patchy in some areas, cedar swamp with a mix of other conifers, lots of streams
80	4130 - Aspen	High Density Sapling	6.4	24		Small aspen stand, good regen
81	4110 - Sugar Maple Association	High Density Log	1,272.8	77	81-110	portions of this stand have been thinned over the past 20 years, large stand with lots of changing topography, evidence of BBD and EAB
82	6120 - Lowland Cedar	High Density Log	6.4	85	141-170	Cedar swamp w/ many feeder streams flowing out of wetland to the east
85	4130 - Aspen	High Density Sapling	4.6	21		Small diameter aspen pole/sapling stand coming along nicely
86	4130 - Aspen	High Density Sapling	2.7	17		Aspen stand that looks to have been recently cut, doesn't correlate very well with old OI data and couldn't find a cutting record therefore the age is just an estimate
88	6120 - Lowland Cedar	High Density Log	21.3	106	111-140	Cedar swamp with many little creeks running every which way
89	4139 - Aspen, Mixed Deciduous	Medium Density Pole	10.1	46	1-50	Sparse aspen stand on a south facing slope

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Gaylord Mgt. Unit

Report 8 – Forested Stands

Compartment: 044
Year of Entry: 2015



S t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
93	4130 - Aspen	High Density Sapling	11.1	24	Regenerating aspen stand, starting to develop in to a pole stand	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	622 - Lowland Shrub	3.6	Unspecified	Unspecified	
5	622 - Lowland Shrub	10.0	Unspecified	Unspecified	
6	622 - Lowland Shrub	1.5	Unspecified	Unspecified	
8	122 - Road/Parking Lot	0.5	Unspecified	Unspecified	
9	622 - Lowland Shrub	15.0	Unspecified	Unspecified	
11	622 - Lowland Shrub	8.8	Unspecified	Unspecified	
12	310 - Herbaceous Openland	1.2	Unspecified	Unspecified	
16	310 - Herbaceous Openland	1.4	Unspecified	Unspecified	
22	310 - Herbaceous Openland	13.1	Unspecified	Unspecified	
23	623 - Emergent Wetland	2.4	Unspecified	Unspecified	
24	50 - Water	6.6	Unspecified	Unspecified	
26	330 - Low-Density Trees	3.0	Unspecified	Unspecified	
31	50 - Water	5.2	Unspecified	Unspecified	
32	310 - Herbaceous Openland	13.9	Unspecified	Unspecified	
33	310 - Herbaceous Openland	3.4	Unspecified	Unspecified	
34	310 - Herbaceous Openland	18.0	Unspecified	Unspecified	
38	310 - Herbaceous Openland	12.5	Unspecified	Unspecified	
40	310 - Herbaceous Openland	1.3	Unspecified	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
47	310 - Herbaceous Openland	21.9	Unspecified	Unspecified	
49	622 - Lowland Shrub	1.6	Unspecified	Unspecified	
50	310 - Herbaceous Openland	2.8	Unspecified	Unspecified	
67	330 - Low-Density Trees	1.8	Unspecified	Unspecified	
69	330 - Low-Density Trees	27.6	Unspecified	Unspecified	
72	622 - Lowland Shrub	24.1	Unspecified	Unspecified	
75	622 - Lowland Shrub	1.4	Unspecified	Unspecified	
76	310 - Herbaceous Openland	2.8	Unspecified	Unspecified	
79	622 - Lowland Shrub	1.5	Unspecified	Unspecified	
83	310 - Herbaceous Openland	1.0	Unspecified	Unspecified	
84	50 - Water	4.0	Unspecified	Unspecified	
87	50 - Water	1.0	Unspecified	Unspecified	
90	50 - Water	3.0	Unspecified	Unspecified	
91	622 - Lowland Shrub	3.3	Unspecified	Unspecified	
92	310 - Herbaceous Openland	15.2	Unspecified	Unspecified	