



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 209

Entry Year 2016

Acreage: 1,696

County Cheboygan

Management Area: Cheboygan Basin Moraines

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**Revision Date:** 04/11/2014

**Stand Examiner:** John Scheele

**Legal Description:**

T35N - R1E Sections 19, 20, and 21

**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:**

Soils in the compartment consist primary of Grayling-Rubican and Cheboygan-Blue Lake Associations. Topography is nearly level to gently rolling.

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

Compartment consist of contiguous state land within and surrounding the compartment. A couple isolated private parcels are located in the western part of the compartment.

**Unique Natural Features:**

Wood Turtle has been observed in compartment. Potential for red-shouldered hawk, eagle, osprey, great blue heron rookery. Potential for wood turtle and lake sturgeon. Potential for massasauga and Blanding's turtle. Central potion of compartment contains Black River NFW PLU.

**Archeological, Historical, and Cultural Features:**

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

There is a small acreage area in the southeast corner of the compartment which is nominated as a habitat area/corridor. This area was previously nominated as potential old growth during the last inventory.

**Watershed and Fisheries Considerations:**

This compartment has excellent fisheries value. A portion of the Upper Black River runs through this compartment. This river receives a spawning run of lake sturgeon, a state threatened species, and an important spawning area is in Section 20. A no-clear cut buffer of about 100' from the top of the ridge should be maintained in stands 47 and 62 to reduce erosion to the river. A stream/intermittent drainage runs adjacent to stands 30, 35, and 40. Best management practices should be followed, including a no-clear cut buffer, to reduce erosion and sedimentation to the river.

**Wildlife Habitat Considerations:**

Treatments in this compartment will maintain age class diversity in aspen and oak while creating early successional habitat benefiting deer, grouse, and woodcock. Oak clumps will be left where appropriate for hard mast. Openings are prescribed to be maintained in this compartment benefiting deer, turkey, grouse, and woodcock.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of coarse-textured till, lacustrine (lake) sand and gravel and minor ice-contact outwash sand and gravel. The glacial drift thickness varies between 10 and 100 feet. The Devonian Traverse Group subcrops below the glacial drift. The Traverse is used for cement and stone elsewhere in the State. A gravel pit is located in Section 21 and there should be potential. The nearest oil and gas production, the Niagaran Reef Trend, is located 12 miles to the south. This area is leased for potential Collingwood Formation development.

**Vehicle Access:**

Access is good. Several county roads run through and around compartment.

**Survey Needs:**

None.

**Recreational Facilities and Opportunities:**

Numerous recreational trails are within the compartment providing many recreational opportunities. The North East State Trail and the Upper Black River are also located in the compartment. The compartment is also used heavily for hunting opportunities.

**Fire Protection:**

There is a small wildfire concern along the east side of the Upper Black River due to campfire activity and the Jack Pine component.

**Additional Compartment Information:**

The Sturgeon For Tomorrow organization locates their temporary headquarters on the east side of the Upper Black River during the spring sturgeon spawning run.

**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**

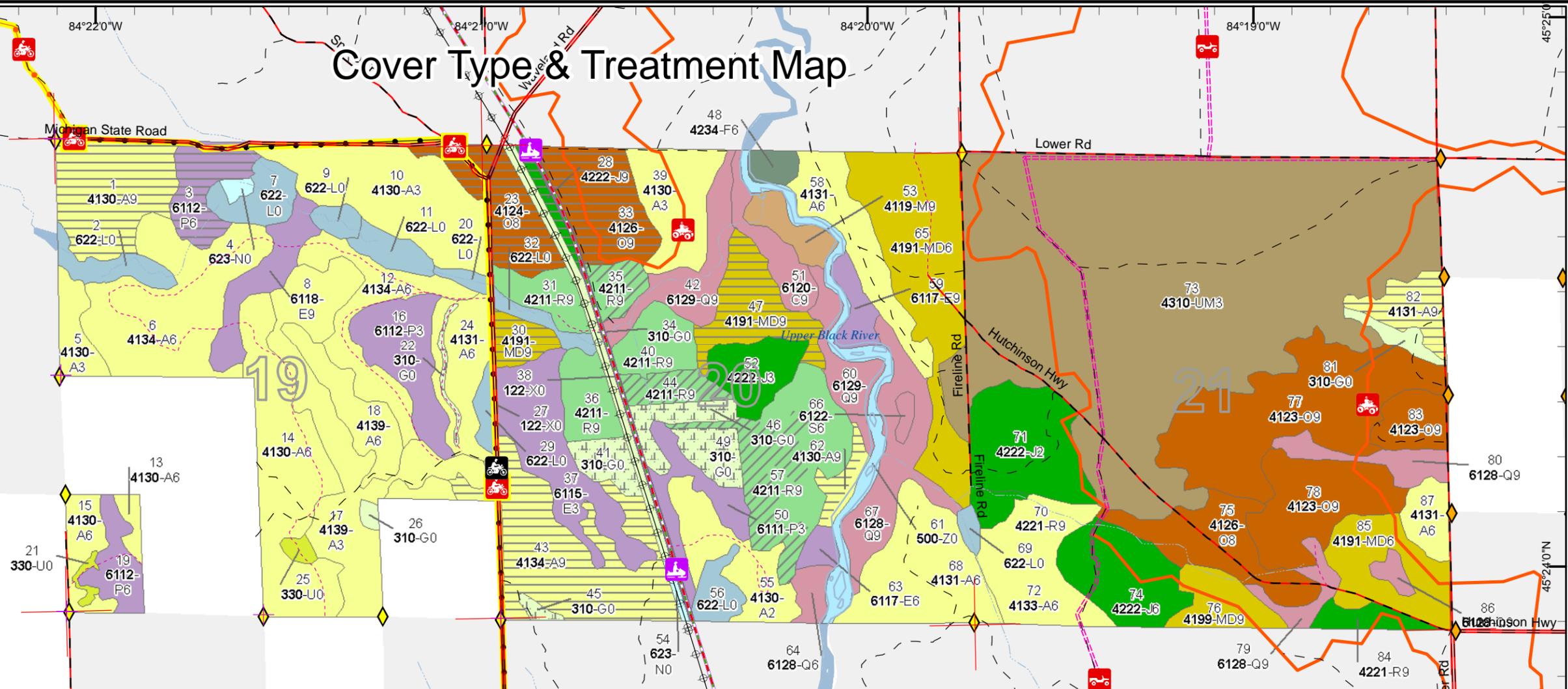
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

# Cover Type & Treatment Map

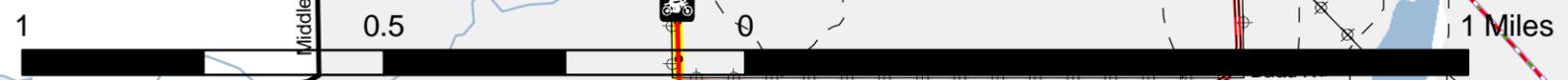
Compartment: 209  
 T35N R01E Sections 19-21  
 County: Cheboygan  
 Unit: Gaylord  
 YOE: 2016  
 Acres: 1,696 GIS Calculated  
 Examiner: John Scheele  
 Map Revised: 05/13/2014  
 Map Phase: Pre-Review

19 20 21



### Legend

<ul style="list-style-type: none"> <li>Miris Corners</li> <li>Re monumented Section Corners</li> <li>Survey Grade Corner</li> <li>PLSS Corner</li> <li>Hiking Trails</li> <li>Bike Trails</li> <li>Motorcycle Trails (SOS License)</li> <li>Motorcycle Trails (DNR License)</li> <li>MCCCT Trails</li> <li>ORV Trails</li> <li>ORV Routes</li> <li>Snowmobile Trails</li> </ul>	<ul style="list-style-type: none"> <li>Highway</li> <li>County Paved Roads</li> <li>Paved Roads</li> <li>County Gravel Roads</li> <li>Gravel Roads</li> <li>Poor Dirt Roads</li> <li>County Poor Dirt Roads</li> <li>Trail (Non-Recreation)</li> <li>Pipeline</li> <li>Powerline</li> <li>Bike Trail</li> <li>Hiking Trail</li> <li>Motorcycle (DNR Sticker)</li> <li>Motorcycle (SOS License)</li> <li>ORV Trail</li> <li>ORV Route</li> <li>MCCCT Trail</li> <li>Snowmobile Trail</li> </ul>	<ul style="list-style-type: none"> <li>Stream</li> <li>Intermittent Stream</li> <li>Lakes and Rivers</li> <li>State Forest Land</li> </ul> <p>Treatments</p> <ul style="list-style-type: none"> <li>Clearcut (w/Reserves, Patch/Strip)</li> <li>Thinning (Crown, Low, Systematic)</li> <li>Other Treatment - See Comments</li> </ul> <p>Forest Stands</p> <p>Level 3</p> <ul style="list-style-type: none"> <li>411 - Northern Hardwood</li> <li>412 - Oak Types</li> <li>413 - Aspen Types</li> <li>419 - Mixed Upland Deciduous</li> <li>421 - Planted Pines</li> <li>422 - Natural Pines</li> <li>423 - Other Upland Conifers</li> <li>431 - Upland Mixed Forest</li> <li>611 - Lowland Deciduous Forest</li> <li>612 - Lowland Coniferous Forest</li> </ul>	<p>Non-Forest Stands</p> <p>Level 3</p> <ul style="list-style-type: none"> <li>122 - Road/Parking Lot</li> <li>310 - Herbaceous Openland</li> <li>330 - Low-Density Trees</li> <li>500 - Water</li> <li>622 - Lowland Shrub</li> <li>623 - Emergent Wetland</li> </ul>
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Stand #	23
(4120) - A7	
Level 3	OI
Level 4	Code
Cover Type Code	

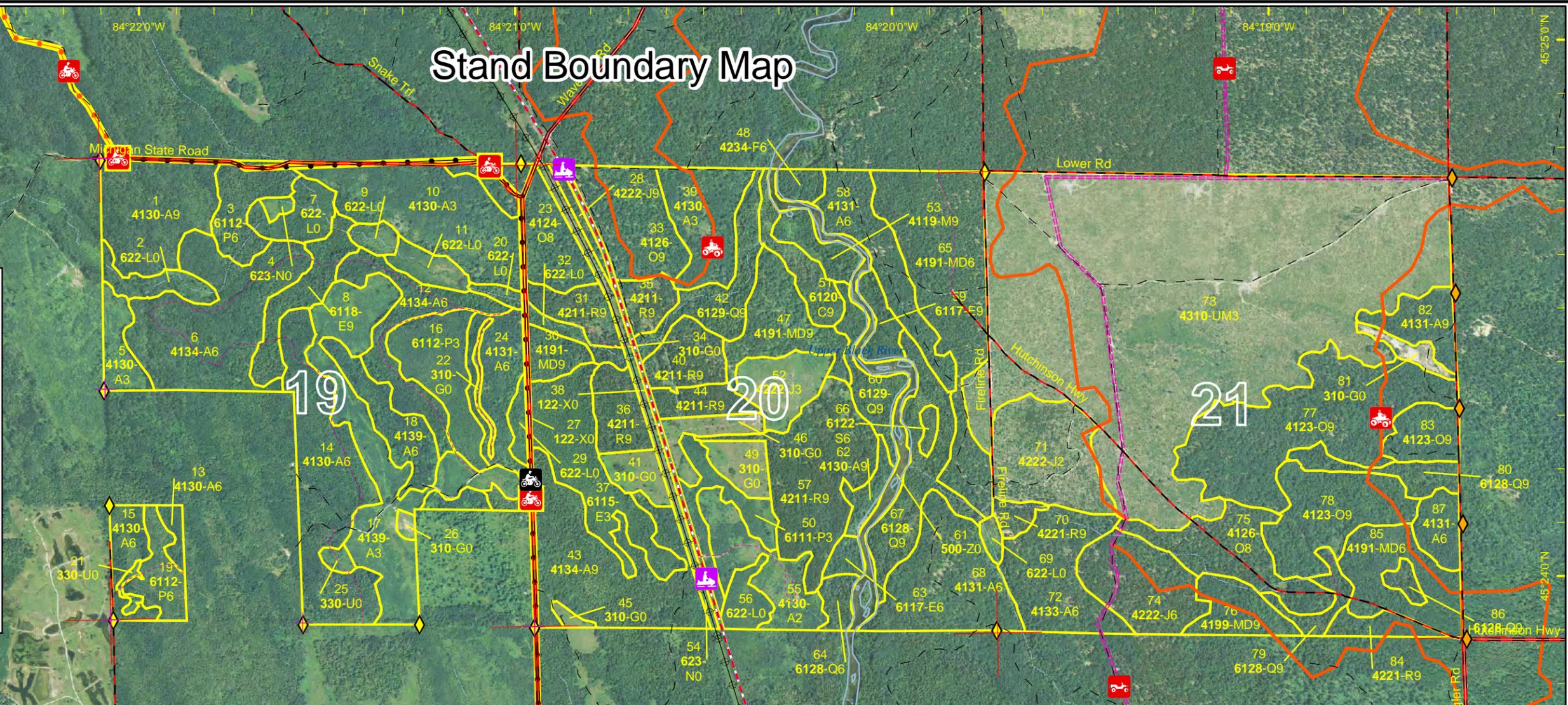
84°23'0"W 84°22'0"W 84°21'0"W 84°20'0"W 84°19'0"W  
 45°25'0"N 45°24'0"N 45°23'0"N

# Stand Boundary Map

Compartment: 209  
 T35N R01E Sections 19-21  
 County: Cheboygan  
 Unit: Gaylord  
 YOE: 2016  
 Acres: 1,696 GIS Calculated  
 Examiner: John Scheele  
 Map Revised: 05/13/2014  
 Map Phase: Pre-Review

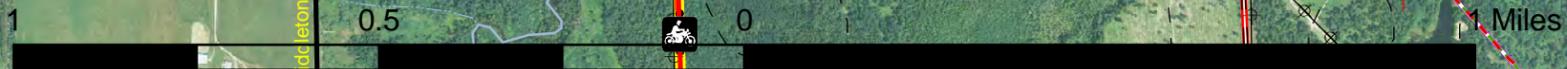
19 20 21

N  
 DNR  
 DEPARTMENT OF NATURAL RESOURCES  
 MICHIGAN



### Legend

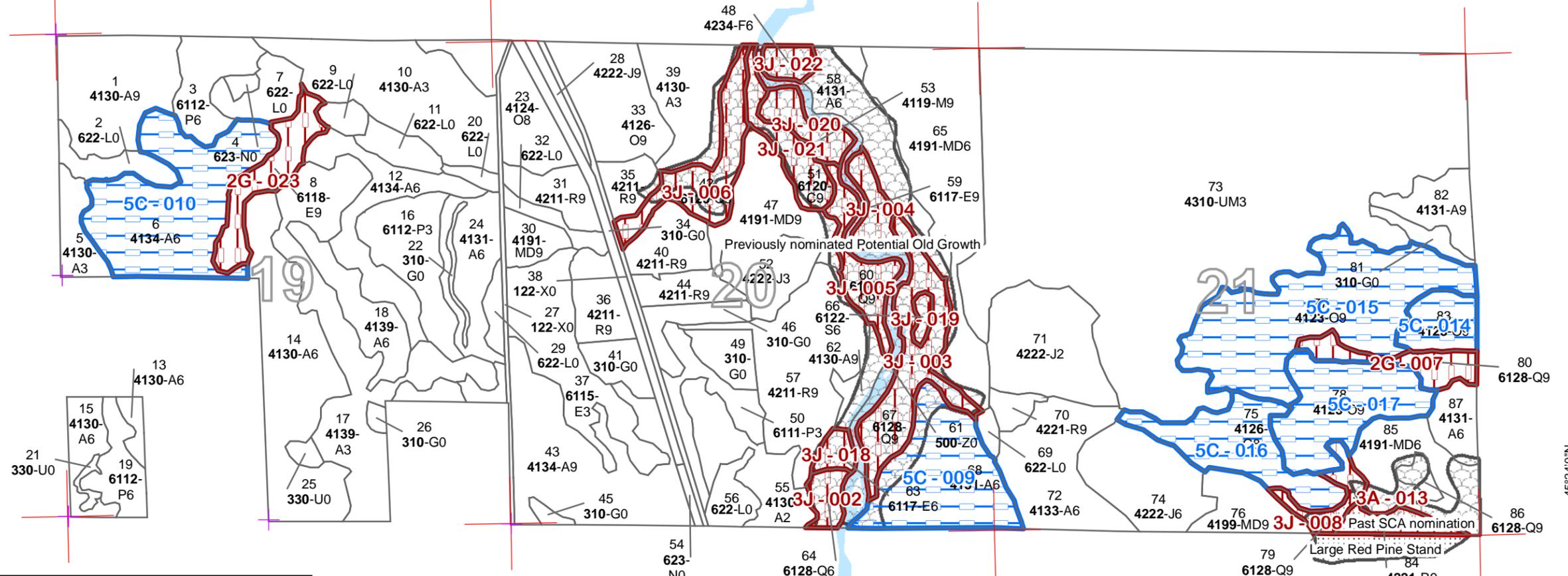
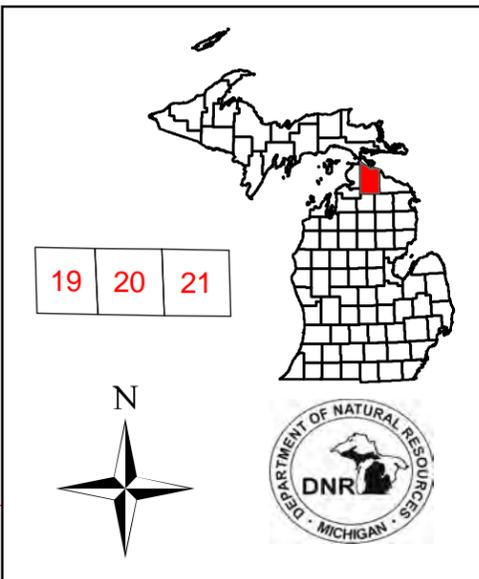
— Miris Corners	— Highway	— Stream
+ Remonumented Section Corners	— County Paved Roads	— Intermittent Stream
◆ Survey Grade	— Paved Roads	— Stand Boundaries
◆ PLSS Corner	— County Gravel Roads	Forest Stands
🚲 Bike Trails	— Gravel Roads	Level 3
🚶 Hiking Trails	— Poor Dirt Roads	122 - Road/Parking Lot
🏍 Motorcycle Trails (SOS License)	— County Poor Dirt Roads	310 - Herbaceous Openland
🏍 Motorcycle Trails (DNR License)	— Trail (Non-Recreation)	330 - Low-Density Trees
🏍 MCCCT Trails	⚡ Powerline	500 - Water
🏍 ORV Trails	— Bike Trail	622 - Lowland Shrub
🏍 ORV Routes	— Hiking Trail	623 - Emergent Wetland
🏍 Snowmobile Trails	— Motorcycle (DNR Sticker)	411 - Northern Hardwood
	— Motorcycle (SOS License)	412 - Oak Types
	— ORV Trail	413 - Aspen Types
	— ORV Route	419 - Mixed Upland Deciduous
	— MCCCT Trail	421 - Planted Pines
	— Snowmobile Trail	422 - Natural Pines
		423 - Other Upland Conifers
		431 - Upland Mixed Forest
		611 - Lowland Deciduous Forest
		612 - Lowland Coniferous Forest



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

# Special Conservation Areas & Site Conditions Map

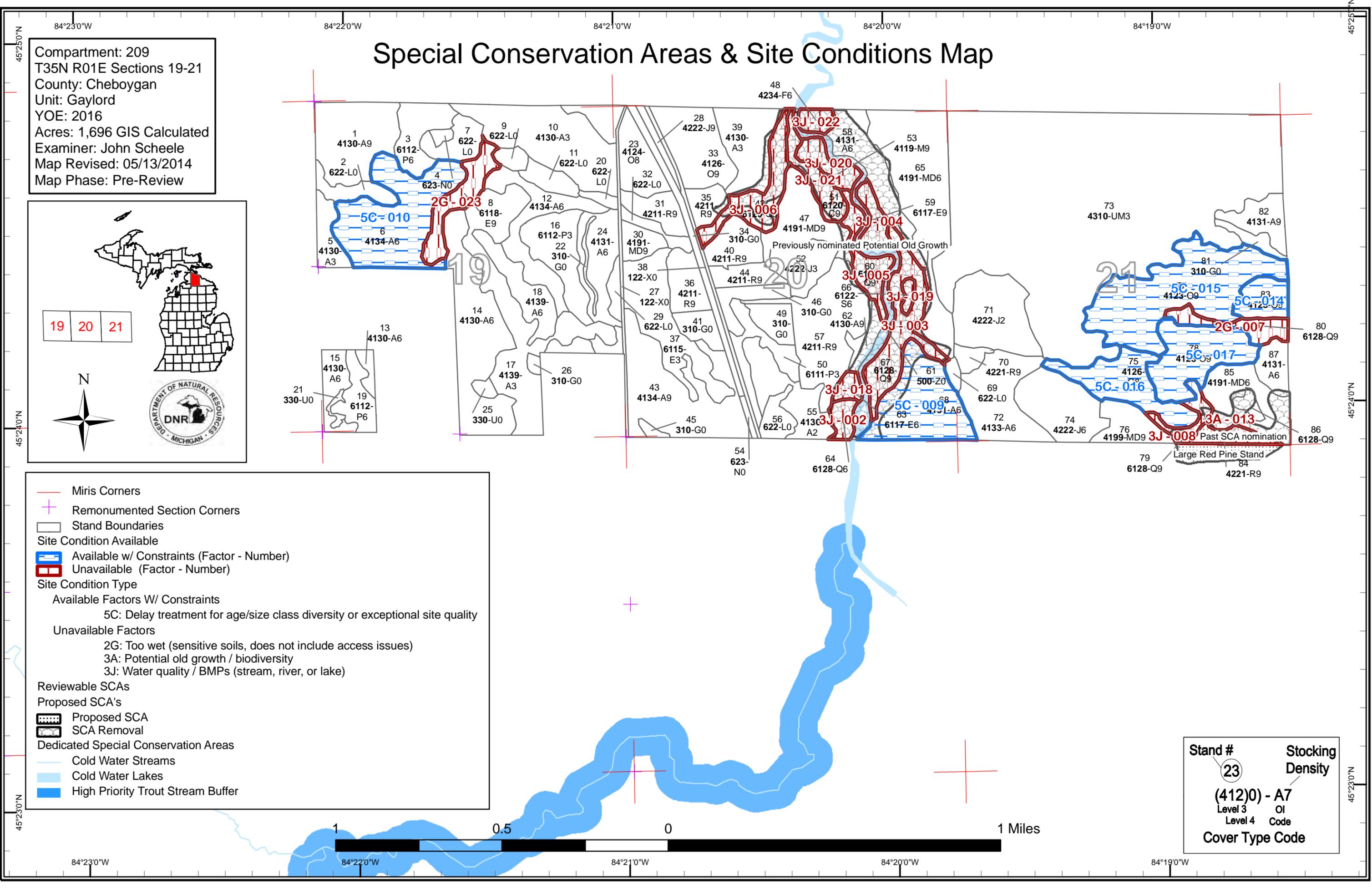
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 Map Phase: Pre-Review



**Legend**

- Miris Corners
- Remonumented Section Corners
- Stand Boundaries
- Site Condition Available
  - Available w/ Constraints (Factor - Number)
  - Unavailable (Factor - Number)
- Site Condition Type
  - Available Factors W/ Constraints
    - 5C: Delay treatment for age/size class diversity or exceptional site quality
  - Unavailable Factors
    - 2G: Too wet (sensitive soils, does not include access issues)
    - 3A: Potential old growth / biodiversity
    - 3J: Water quality / BMPs (stream, river, or lake)
- Reviewable SCAs
- Proposed SCA's
  - Proposed SCA
  - SCA Removal
- Dedicated Special Conservation Areas
  - Cold Water Streams
  - Cold Water Lakes
  - High Priority Trout Stream Buffer

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



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	62	109	0	101	155	33	0	6	65	0	0	0	0	0	530
Cedar	0	0	0	0	0	0	0	0	0	0	11	0	0	0	11
Herbaceous Openland	45	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Jack Pine	15	32	0	0	27	0	3	0	0	0	0	0	0	0	77
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	36	0	11	16	0	0	0	0	0	0	0	0	0	62
Lowland Conifers	0	0	0	0	0	0	0	0	0	50	31	0	0	0	81
Lowland Deciduous	0	0	33	0	0	0	0	0	19	7	0	0	0	0	59
Lowland Shrub	49	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	0	25	0	0	0	0	29	70	0	0	0	0	124
Northern Hardwood	0	0	0	0	0	0	0	0	0	9	0	0	0	0	9
Oak	0	0	0	0	0	0	0	26	124	11	22	0	0	0	183
Red Pine	0	0	0	0	0	63	35	0	6	0	0	0	0	0	104
Upland Mixed Forest	319	0	0	0	0	0	0	0	0	0	0	0	0	0	319
Upland Spruce/Fir	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18
<b>Total</b>	<b>526</b>	<b>177</b>	<b>33</b>	<b>137</b>	<b>197</b>	<b>101</b>	<b>38</b>	<b>32</b>	<b>243</b>	<b>149</b>	<b>64</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1696</b>



## Report 2 – Proposed Treatment Summaries

**Gaylord Mgt. Unit**  
**Year of Entry 2016**

**Compartment 209**  
**Total Compartment Acres: 1,696**

### Acres by Treatment Type

Commercial Harvest - 235    Tree Planting - 0    Other - 0  
 Habitat Cut - 0    Opening Maintenance - 27

### Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Aspen Types</b>	102	0	0	0	0	0	0	102
<b>Lowland Deciduous Forest</b>	16	0	0	0	0	0	0	16
<b>Mixed Upland Deciduous</b>	29	0	0	0	0	0	0	29
<b>Natural Pines</b>	3	0	0	0	0	0	0	3
<b>Oak Types</b>	49	0	0	0	0	0	0	49
<b>Planted Pines</b>	0	0	0	0	36	0	0	36
<b>Total</b>	<b>199</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>36</b>	<b>0</b>	<b>0</b>	<b>235</b>



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	52209001- CCWR	33.3	4130 - Aspen	High Density Log	58		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Harvest stand to regenerate. Do not cut White Pine or Oak species. Leave retention around low depression area in center of stand and along										
<u>Specs:</u> low ground drainages. Cut in winter or dry summer to minimize rutting in low ground.										
<u>Other</u> Smaller timber on east side of stand. May want to leave and combine with younger Aspen stand to the south. Small drainage area in center of										
<u>Comments:</u> stand leading to a small stream and a lowland shrub stand to the south.										
<u>Next</u> Regeneration survey. Acceptable regeneration includes a moderate to well-stocked stand of aspen.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
3	52209003- CCWR_1	15.8	6112 - Lowland Aspen	High Density Pole	48		Harvest	Clearcut with Reserves	6112 - Lowland Aspen	Cmpt. Review Proposal
<u>Prescription</u> Harvest stand to regenerate. Do not cut oak species. Cut in winter or dry summer to minimize rutting. Leave buffer or retention area along										
<u>Specs:</u> small stream in south part of stand.										
<u>Other</u> Some larger diameter aspen scattered throughout stand.										
<u>Comments:</u>										
<u>Next</u> Regeneration survey. Acceptable regeneration includes a moderate to well-stocked stand of aspen.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
23	52209023- CCWR	21.9	4124 - Red with White Oak	Medium Density Log	100	51-80	Harvest	Clearcut with Reserves	4124 - Red with White Oak	Cmpt. Review Proposal
<u>Prescription</u> Harvest stand to release understory. Mark individual clumps of 2 to 5 trees per clump to leave. Stay out of those areas with low basal area										
<u>Specs:</u> overstory or advanced regeneration. Targeted residual BA of 10 - 30 sq. ft./acre.										
<u>Other</u> Large crown, branchy oak. Pockets of heavy aspen regeneration. Cut in 1996. BA = 80. Lots of deer tracks in stand.										
<u>Comments:</u>										
<u>Next</u> Regeneration survey. Acceptable regeneration includes a moderate to well stocked mix of oak species with Red Maple and aspen.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
28	52209028- CCWR	3.1	42220 - Natural Jack Pine	High Density Log	60		Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Harvest stand to regenerate. Do not cut oak species. No retention due to small stand size.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Regeneration survey. Acceptable regeneration includes a moderate to well-stocked mix of natural Jack Pine, aspen, and oak species.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
30	52209030- CCWR	7.2	4191 - Mixed Upland Deciduous with Conifer	High Density Log	80	81-110	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Harvest stand to regenerate. Do not cut cedar and oak species. No retention due to small stand size. Leave a 100 foot buffer along stream edge.										
<u>Specs:</u>										
<u>Other</u> Blowdown starting to occur. Low ground on edges of stand. BA=93.										
<u>Comments:</u>										
<u>Next</u> Regeneration survey. Acceptable regeneration includes a moderate to well-stocked mix of Red Maple, aspen, oak, and coniferous species.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
33	52209033- CCWR	26.7	4126 - White, Black, N. Pin Oak	High Density Log	85	51-80	Harvest	Clearcut with Reserves	4126 - White, Black, N. Pin Oak	Cmpt. Review Proposal
<u>Prescription</u> Harvest stand to regenerate. Mark individual clumps of 2 - 5 trees per clump to leave. Also leave 3 - 10% retention acreage. Place along recreation trail.										
<u>Specs:</u>										
<u>Other</u> Branchy, poor quality oak. BA = 80.										
<u>Comments:</u>										
<u>Next</u> Regeneration survey. Acceptable regeneration includes a moderate to well stocked mix of oak species with aspen and pine.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
35	52209035- RPthin	6.3	42110 - Planted Red Pine	High Density Log	53	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Mark to 100-120 BA. Mark larger, poor quality trees and all Jack Pine.										
<u>Specs:</u>										
<u>Other</u> Very branchy, poor quality Red Pine. Some blowdown in center of stand. BA = 153.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
43	52209043- CCWR	52.6	4134 - Aspen, Spruce/Fir	High Density Log	80		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Harvest stand to regenerate. Cut in winter or dry summer to minimize rutting. Leave Red Pine, cedar, and oak species. Possible retention areas include area in center of stand where the soil is wetter or the peninsula island also in center of stand.										
<u>Specs:</u>										
<u>Other</u> Poor quality aspen. Soil gets wetter in center of stand.										
<u>Comments:</u>										
<u>Next</u> Regeneration survey. Acceptable regeneration includes a moderate to well-stocked mix of aspen and coniferous species.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
44	52209044- RPThin	8.2	42110 - Planted Red Pine	High Density Log	64	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin stand to 100 - 120 BA. Cut in winter to protect the surface of the North Eastern State Trail.										
<u>Specs:</u>										
<u>Other</u> Stand appears to not have been thinned before and the rows are wider than average. Jack Pine dead or dying out. BA = 150.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
47 52209047-CCWR	22.1	4191 - Mixed Upland Deciduous with Conifer	High Density Log	85	51-80	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

Prescription Harvest stand to regenerate. Mark some clumps of 2 - 6 trees containing oak species and larger diameter Red Pine trees to leave throughout stand as retention. No other retention recommended. Cut all White Pine. Cut in winter to protect the surface of the North Eastern State Trail.

Other Comments: Aspen is poor quality. BA = 70. Treatment area is 100 feet from the Black River with a swamp conifer stand between the treatment area and river.

Next Steps: Regeneration survey. Acceptable regeneration includes a moderate to well-stocked mix of aspen, Red Pine, and oak species.

Proposed Start Date: 10/01/2015

57 52209057-RPThin	21.2	42110 - Planted Red Pine	High Density Log	53	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Third row thin stand. May need to mark the rows in some areas since the rows are difficult to see in places. Cut in winter to protect the surface of the North Eastern State Trail.

Other Comments: Branchy Red Pine with DBH varying from pole to logs. Higher BA in some areas with a range from 0 to 200 for Red Pine. Approximate overall average BA = 140. High Red Maple understory. Stand does not appear to have been thinned before.

Next Steps:

Proposed Start Date: 10/01/2015

62 52209062-CCWR	4.2	4130 - Aspen	High Density Log	70		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription Harvest stand to regenerate. Do not cut oak species. Leave a 50 to 100 foot 'no clearcut' buffer from the top of the ridge to prevent possible erosion of the slope along the Black River. Expand west boundary line of treatment area into Stand 57 when possible to cut pockets of aspen and hardwood within Red Pine stand. Cut in winter to protect surface of the North Eastern State Trail.

Other Comments: Steep ridge on eastern edge of stand leading down to the Black River.

Next Steps: Regeneration survey. Acceptable regeneration includes a moderate to well-stocked stand of aspen.

Proposed Start Date: 10/01/2015

82 52209082-CCWR	12.0	4131 - Aspen, Oak	High Density Log	85	51-80	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
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Prescription Harvest stand to regenerate. Mark multi-species clumps of 2 - 6 trees to leave. Concentrate clumps along recreation trail. Leave some larger Red Pine. No other stand retention recommended.

Other Comments: Aspen is poor quality. BA = 73

Next Steps: Regeneration survey. Acceptable regeneration includes a moderate to well-stocked mix of aspen and oak species.

Proposed Start Date: 10/01/2015

22 NF_52209022-NonFor	1.8	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41	NF_52209041- NonFor	7.4	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
<u>Prescription</u> Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> Unspecified										
45	NF_52209045- NonFor	1.6	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
<u>Prescription</u> Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> Unspecified										
46	NF_52209046- NonFor	8.3	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
<u>Prescription</u> Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> Unspecified										
49	NF_52209049- NonFor	8.2	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
<u>Prescription</u> Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.										
<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: 261.9**



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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**  
**John Scheele : Examiner**

**Compartment 209**  
**Year of Entry 2016**

### Availability for Management

Total Acres	Acres		Dominant Site Conditions	Dominant Site Conditions				
	Available	Not Available		No	5C	3J	3A	2G
530	530		Aspen	442	88			
11		11	Cedar			11		
77	77		Jack Pine	77				
62	62		Lowland Aspen/Balsam Poplar	62				
81	3	78	Lowland Conifers	3		68		10
59	33	26	Lowland Deciduous	33		11		15
2		2	Lowland Spruce/Fir			2		
124	124		Mixed Upland Deciduous	124				
9		9	Northern Hardwood			9		
183	183		Oak	49	134			
104	98	6	Red Pine	98			6	
319	319		Upland Mixed Forest	319				
4		4	Upland Spruce/Fir			4		
1,566	1,429	137	Total Forested Acres	1,206	223	106	6	25
	91%	9%	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	Not Available	3J: Water quality / BMPs (stream, river, or lake)	5				
<b>Comments:</b>							
003	Not Available	3J: Water quality / BMPs (stream, river, or lake)	26				
<b>Comments:</b>							

Report 5 – Site Conditions

Gaylord Mgt. Unit  
John Scheele : Examiner

Compartment 209  
Year of Entry 2016

004	Not Available	3J: Water quality / BMPs (stream, river, or lake)	7	
Comments:				
005	Not Available	3J: Water quality / BMPs (stream, river, or lake)	12	
Comments:				
006	Not Available	3J: Water quality / BMPs (stream, river, or lake)	19	
Comments:				
007	Not Available	2G: Too wet (sensitive soils, does not include access issues)	10	
Comments:				
008	Not Available	3J: Water quality / BMPs (stream, river, or lake)	7	2G: Too wet (sensitive soils, does not include access issues)
Comments:				
009	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	
Comments:				

## Report 5 – Site Conditions

Gaylord Mgt. Unit  
John Scheele : Examiner

Compartment 209  
Year of Entry 2016

010	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	51
<b>Comments:</b>			
013	<b>Not Available</b>	<b>3A: Potential old growth / biodiversity</b>	7
<b>Comments:</b>			
Nominated stand as a SCA.			
014	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11
<b>Comments:</b>			
015	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	66
<b>Comments:</b>			
016	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	26
<b>Comments:</b>			
017	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	31
<b>Comments:</b>			

Report 5 – Site Conditions

Gaylord Mgt. Unit  
John Scheele : Examiner

Compartment 209  
Year of Entry 2016

018 Not Available 3J: Water quality / BMPs (stream, river, or lake) 4

Comments:

019 Not Available 3J: Water quality / BMPs (stream, river, or lake) 2

Comments:

020 Not Available 3J: Water quality / BMPs (stream, river, or lake) 9

Comments:

021 Not Available 3J: Water quality / BMPs (stream, river, or lake) 11

Comments:

022 Not Available 3J: Water quality / BMPs (stream, river, or lake) 5

Comments:

023 Not Available 2G: Too wet (sensitive soils, does not include access issues) 15

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
<b>Large Red Pine Stand</b>	Habitat Areas or Corridors	Other Habitat Area	<b>SCA</b>	18.4
<b>Comments</b> 2004 inventory (Tim Greco) nominated stand for possible old growth and noted a possible goshawk sighting. Stand has a recreational trail in it and is the headwaters to a stream to the west.				
<b>Past SCA nomination</b>	Other SCA		<b>SCA Removal</b>	17.2
<b>Comments</b> NICE BIG OAK AND RP LOGS WITH HEAVILY BROWSED RM UNDER.				
<b>Previously nominated Potential Old Growth</b>	Potential Old Growth		<b>SCA Removal</b>	149.2
<b>Comments</b> Area is primarily lowland stands with limited harvesting potential.				



## 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	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	4130 - Aspen	High Density Log	33.3	58		Smaller timber on east side of stand. May want to leave and combine with younger Aspen stand to the south. Small drainage area in center of stand leading to lowland shrub stand to the south.
3	6112 - Lowland Aspen	High Density Pole	15.8	48		Some larger diameter aspen scattered throughout stand.
5	4130 - Aspen	High Density Sapling	9.3	5		
6	4134 - Aspen, Spruce/Fir	High Density Pole	50.9	48		Leave for next YOE.
8	6118 - Lowland Deciduous with Cedar	High Density Log	15.1	80		This is a drainage running north to creek. EAB present.
10	4130 - Aspen	High Density Sapling	45.0	18		
12	4134 - Aspen, Spruce/Fir	High Density Pole	23.9	43		Some log-sized Aspen within stand.
13	4130 - Aspen	High Density Pole	3.1	33		
14	4130 - Aspen	High Density Pole	48.9	37		
15	4130 - Aspen	High Density Pole	9.4	33		Lowland drainage area in north/center part of stand.
16	6112 - Lowland Aspen	High Density Sapling	22.3	17		
17	4139 - Aspen, Mixed Deciduous	High Density Sapling	52.3	5		
18	4139 - Aspen, Mixed Deciduous	High Density Pole	19.1	43	81-110	Poor quality and branchy Sugar Maple with large crowns. Leave for next year of entry, possibly with Aspen stand to the east. EAB is in a few of the ash trees. BA = 93
19	6112 - Lowland Aspen	High Density Pole	10.8	33		
23	4124 - Red with White Oak	Medium Density Log	21.9	100	51-80	Large crown, branchy oak. Pockets of heavy aspen regeneration. Cut in 1996. BA = 80. Lots of deer tracks in stand.
24	4131 - Aspen, Oak	High Density Pole	19.1	17		
28	42220 - Natural Jack Pine	High Density Log	3.1	60		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	4191 - Mixed Upland Deciduous with Conifer	High Density Log	7.2	80	81-110	Blowdown starting to occur. Low ground on edges of stand. BA=93.
31	42110 - Planted Red Pine	High Density Log	10.2	64	111-140	Thinned in 1996. BA = 140.
33	4126 - White, Black, N. Pin Oak	High Density Log	26.7	85	51-80	Branchy, poor quality oak. BA = 80. Heavy deer activity in stand. Cut or leave for mast production and wildlife value.
35	42110 - Planted Red Pine	High Density Log	7.5	53	141-170	Very branchy, poor quality Red Pine. Some blowdown in center of stand. BA = 153.
36	42110 - Planted Red Pine	High Density Log	12.1	64	111-140	Tall, nice quality trees. BA=113. Thinned in 2007.
37	6115 - Lowland Ash	High Density Sapling	32.7	20		Poor quality ash.
39	4130 - Aspen	High Density Sapling	23.1	17		White Pine is short with weevil damage.
40	42110 - Planted Red Pine	High Density Log	12.9	53	111-140	Very branchy. Poorer quality compared to stand to the south. More open canopy. BA = 105.
42	6129 - Mixed Coniferous Lowland Forest	High Density Log	18.5	100		Stand buffers stream. Springs and seeps in south portion of stand.
43	4134 - Aspen, Spruce/Fir	High Density Log	52.6	80		Poor quality aspen. Soil gets wetter in center of stand.
44	42110 - Planted Red Pine	High Density Log	8.2	64	141-170	Jack Pine dead or dying out. BA = 150.
47	4191 - Mixed Upland Deciduous with Conifer	High Density Log	22.1	85	51-80	Aspen is poor quality. BA = 70.
48	42340 - Upland Spruce/Fir	High Density Pole	4.5	53		Leave stand as buffer to Black River. Stand is at bottom of steep hill which drops down to low ground and to the river.
50	6111 - Lowland Balsam Poplar	High Density Sapling	13.2	17		
51	6120 - Lowland Cedar	High Density Log	11.2	100		
52	42221 - Natural Jack Pine, Mixed Deciduous	High Density Sapling	14.9	5		
53	4119 - Mixed Northern Hardwoods	High Density Log	8.6	90	81-110	Stand is mostly high ground with some pockets of low ground. Heavy EAB in Ash trees. Ash is dying out. BA = 93. No management recommended.

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Gaylord Mgt. Unit

## Report 8 – Forested Stands

Compartment: 209  
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	4130 - Aspen	Medium Density	21.7	17		
57	42110 - Planted Red Pine	High Density Log	42.9	53	141-170	Branchy Red Pine with DBH varying from pole to logs. Higher BA in some areas. BA = 140. High Red Maple understory may be a concern.
58	4131 - Aspen, Oak	High Density Pole	23.5	46		No management recommended at this time. Leave as buffer to the Black River and aesthetic buffer around the Sturgeon For Tomorrow headquarters.
59	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	7.2	90		Some areas of low ground within stand. Heavy EAB present. White Ash is dying out and stand is converting to basswood/balsam fir. No management recommended.
60	6129 - Mixed Coniferous Lowland Forest	High Density Log	12.1	90		Stand is a buffer to the Black River.
62	4130 - Aspen	High Density Log	5.9	70		Treat if treating Red Pine stand to the west.
63	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	3.7	80		Stand is a buffer to Black River.
64	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	5.0	90		Stand is a buffer to Black River.
65	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	57.1	90	51-80	Short, 3 - stick tall, poor quality oak. Some pockets of 16 - 18 DBH Red Pine. Some individually larger oak and White Pine. BA = 80. Stand to the east has regeneration of 5 feet or less. Sturgeon For Tomorrow headquarters is to the west of stand.
66	6122 - Black Spruce	High Density Pole	2.0	95		
67	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	26.0	95		Stand is at the bottom of steep ridge. Buffer to the Black River. No management recommended.
68	4131 - Aspen, Oak	High Density Pole	37.5	48		Some log sized Aspen and Red Pine scattered within stand.
70	42210 - Natural Red Pine	High Density Log	4.0	60	51-80	Stand has steep slopes on both the north and south sides. Some large individual Red Pine trees. Small stand, leave as buffer and diversity. BA = 77
71	42221 - Natural Jack Pine, Mixed Deciduous	Medium Density	32.4	18		
72	4133 - Aspen, Mixed Pine	High Density Pole	31.1	38		Jack Pine dying out. Some larger diameter individual oak, Red Pine and aspen trees.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
73	4310 - Pine, Oak Mix	High Density Sapling	318.7	5		
74	42220 - Natural Jack Pine	High Density Pole	26.6	45		Short, brancy Jack Pine.
75	4126 - White, Black, N. Pin Oak	Medium Density Log	26.4	79	81-110	Branchy, very poor quality oak. BA = 83. Adjacent stand to the north has less than 5 feet tall regeneration.
76	4199 - Other Mixed Upland Deciduous	High Density Log	13.1	95	51-80	BA = 70. Stand was cut in 1976 except the oak species. No treatment recommended.
77	4123 - Red Oak	High Density Log	65.6	80	51-80	Stand appears to have been cut 37 years ago except the oak species. Small area of lowland conifer with heavy deer activity in northeast part of stand. BA = 67.
78	4123 - Red Oak	High Density Log	31.2	80	51-80	Some larger White Pine and oak trees. BA = 77.
79	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	6.8	90		Stand is a buffer to a drainage/intermittent stream. Some blowdown is beginning to occur.
80	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	10.0	100		Aspen and cedar dying out and blowing over.
82	4131 - Aspen, Oak	High Density Log	12.0	85	51-80	Aspen is poor quality. BA = 73
83	4123 - Red Oak	High Density Log	11.2	90	1-50	Heavy deer activity. After the oak nuts. BA = 50.
84	42210 - Natural Red Pine	High Density Log	6.5	80	111-140	Transition stand from high to low ground. BA = 137. Thin or leave for diversity.
85	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	24.7	37	1-50	Multi-stemmed oak with some individually larger trees. Approximate BA is 50.
86	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	2.9	100		Larger Quaking Aspen falling over and creating some slash.
87	4131 - Aspen, Oak	High Density Pole	8.8	37		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	622 - Lowland Shrub	8.2	Unspecified	Unspecified	
4	623 - Emergent Wetland	1.6	Unspecified	Unspecified	
7	622 - Lowland Shrub	10.5	Unspecified	Unspecified	
9	622 - Lowland Shrub	3.7	Unspecified	Unspecified	
11	622 - Lowland Shrub	6.9	Unspecified	Unspecified	
20	622 - Lowland Shrub	2.3	Unspecified	Unspecified	
21	330 - Low-Density Trees	1.5	Unspecified	Unspecified	
22	310 - Herbaceous Openland	1.8	Unspecified	Unspecified	
25	330 - Low-Density Trees	2.0	Unspecified	Unspecified	
26	310 - Herbaceous Openland	1.3	Unspecified	Unspecified	
27	122 - Road/Parking Lot	5.1	Unspecified	Unspecified	
29	622 - Lowland Shrub	3.7	Unspecified	Unspecified	
32	622 - Lowland Shrub	4.6	Unspecified	Unspecified	
34	310 - Herbaceous Openland	11.4	Unspecified	Unspecified	
38	122 - Road/Parking Lot	6.8	Unspecified	Unspecified	
41	310 - Herbaceous Openland	7.4	Unspecified	Unspecified	
45	310 - Herbaceous Openland	1.6	Unspecified	Unspecified	
46	310 - Herbaceous Openland	8.3	Unspecified	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
49	310 - Herbaceous Openland	8.2	Unspecified	Unspecified	
54	623 - Emergent Wetland	1.4	Unspecified	Unspecified	
56	622 - Lowland Shrub	6.9	Unspecified	Unspecified	
61	50 - Water	18.3	Unspecified	Unspecified	
69	622 - Lowland Shrub	2.3	Unspecified	Unspecified	
81	310 - Herbaceous Openland	4.4	Unspecified	Unspecified	