



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52005

Entry Year 2021

Acreage: 1,701

County Otsego

Management Area: Kirtland's Warbler

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**Revision Date:** 2019-03-01

**Stand Examiner:** Trevor Kubitskey

**Legal Description:**

T29N R1W, Sections 20, 21, & 22.

**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:**

This compartment is very flat with very limited changes in topography. The dominant soil type (70%) is Rubicon-Grayling Sand with the remainder being Roselawn-Rubicon Sand.

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

This compartment is a designated Kirtland Warbler management unit that encompasses 1,661 acres of the total 1,920 acres that are within the confining sections. The remaining acres are made up of private ownership. The compartment provides many opportunities for public use with the two most common uses being hunting and snowmobiling. A large Consumers Right of Way splits the compartment along with sixteen gas wells and one facility that are found throughout.

**Unique Natural Features:**

The Michigan Natural Features Inventory Database indicated the identification and presence of the Hill's Thistle (*Cirsium hillii*), Blazing Star Borer (*Papaipema beeriana*), Dusted Skipper (*Atrytonopsis hianna*), and a Bald Eagle's (*Haliaeetus leucocephalus*) nest. Previously there has also been an identification of Grizzled Skipper (*Pyrgus malvae*) but has not been observed since 1965.

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

None known.

**Special Management Designations or Considerations:**

The majority of the compartment is being managed for Kirtland Warbler habitat, which is split into two management blocks; 14 and 18. The Kirtland Warbler habitat falls under a High Conservation Value Area. State Game lands are present west of Big Creek road.

**Watershed and Fisheries Considerations:**

This compartment lies within the Northern Lake Huron Management Unit. The compartment also contains a small portion of Little Crapo Lake, a tributary to Crapo Creek and the West Branch Big Creek which is a tributary of the Au Sable River. The West Branch is a cold water stream that falls under a natural river zone and is also classified as a High Conservation Value Area. Natural River buffers should be applied.

**Wildlife Habitat Considerations:**

Most of the compartment is upland areas with wetlands intermixed. The two larger wetlands within the compartment are found in the NW corner of section 20, and the NE corner of section 22. Abundant wildlife is found within these areas; including ducks, geese, beavers, otters and various amphibians. The rest of the compartment is within the Kirtland Warbler management area which is the prime focus of the compartment. The ecosystem that supports the Warbler also provides habitat for game species such as deer, bear, grouse, American woodcock, wild turkey and a number of furbearers. This area receives a considerably amount of hunting pressure both from upland and waterfowl hunters.

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

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 1,000 feet. The Mississippian Coldwater Shale subcrops below the glacial drift. The Coldwater Shale does not have an economic use. Active sand & gravel operations are not located in the area, but there is good potential within the compartment on the uplands. The compartment has been developed for Antrim Shale gas production and nearly all state-owned mineral rights in this area are currently under lease and in production. There is no known metallic mineral potential in this part of the state.

**Vehicle Access:**

Two main county roads cut through the compartment; Crapo Lake Rd and Big Creek Rd. From these roads, a series of state forest roads provide very good access to many areas of the compartment.

**Survey Needs:**

Most survey corners have been established. The south half of section 20 will need to be surveyed for future management.

**Recreational Facilities and Opportunities:**

The North Branch snowmobile trail traverses through the compartment within sections 20 and 21.

**Fire Protection:**

This compartment is composed of extremely high risk fuel types. Combining this with activities associated with intense Antrim gas development puts this compartment at a very high risk for wildfires. The Big Creek fire burned through portions of this compartment in 1981. The network of roads provides good access to areas of the compartment if a response to the area is needed.

**Additional Compartment Information:****The following reports from the Inventory are attached:**

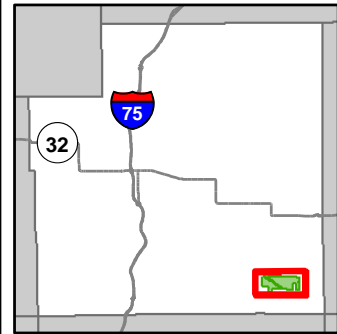
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

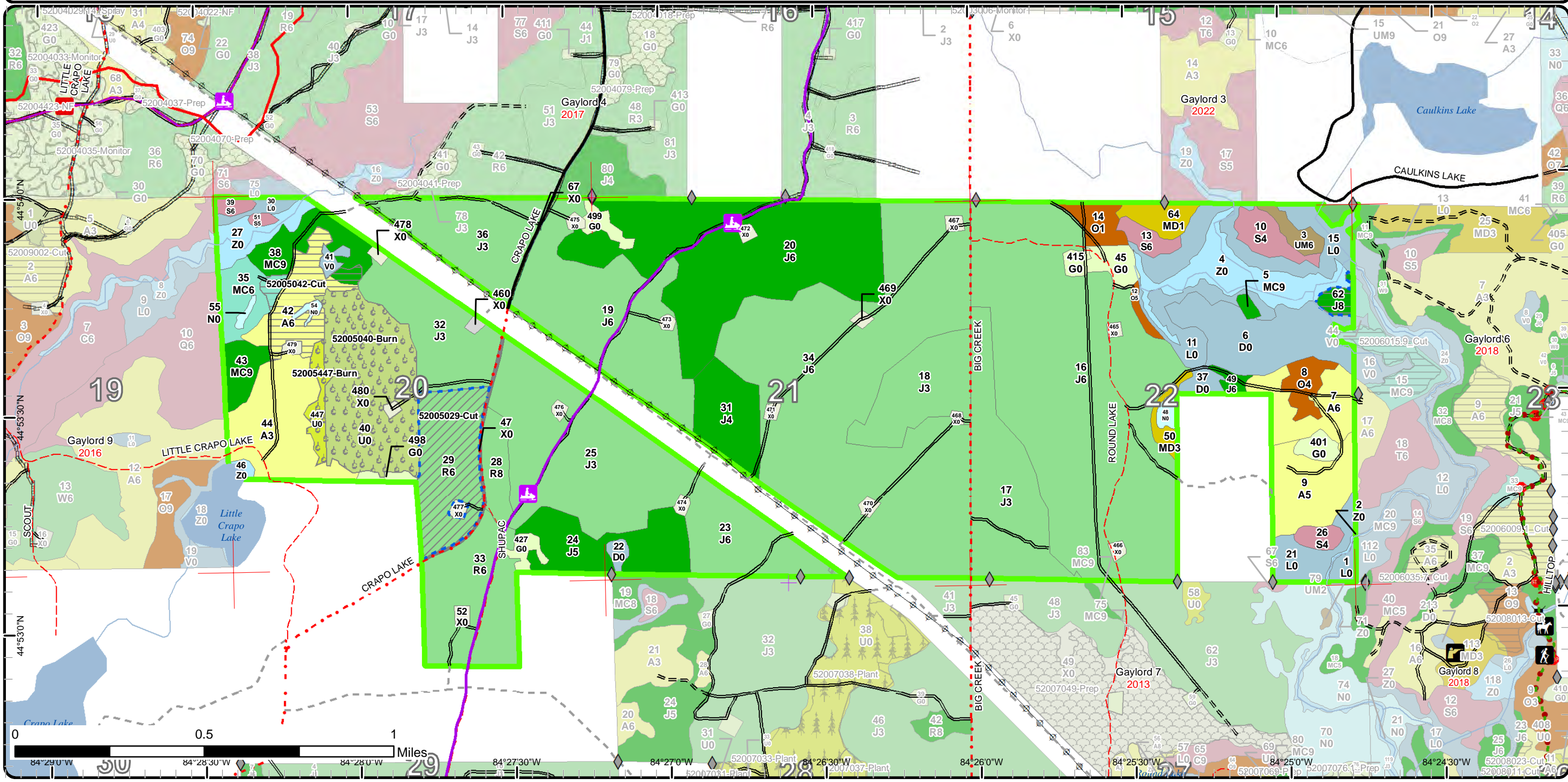
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 5  
 T29N, R01W, Sec. 20-22  
 County: Otsego  
 Unit: Gaylord  
 Mgmt Area: Kirtland's Warbler  
 YOE: 2021  
 Acres: 1,701 GIS Calculated  
 Examiner: Trevor Kubitskey  
 Map Revised: 10/8/2019  
 Map Phase: Post-Review



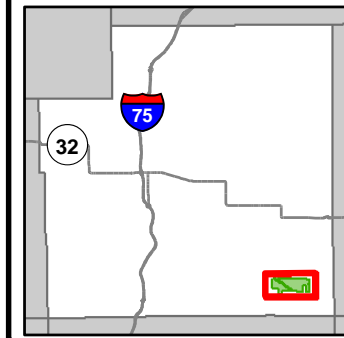
- Miris Corners
- Re monumented Section Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Horse Trails
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Deer Blind
- Bridges
- Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparingly Vegetated
- Lakes



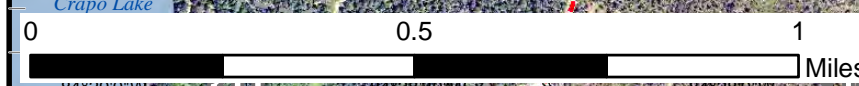
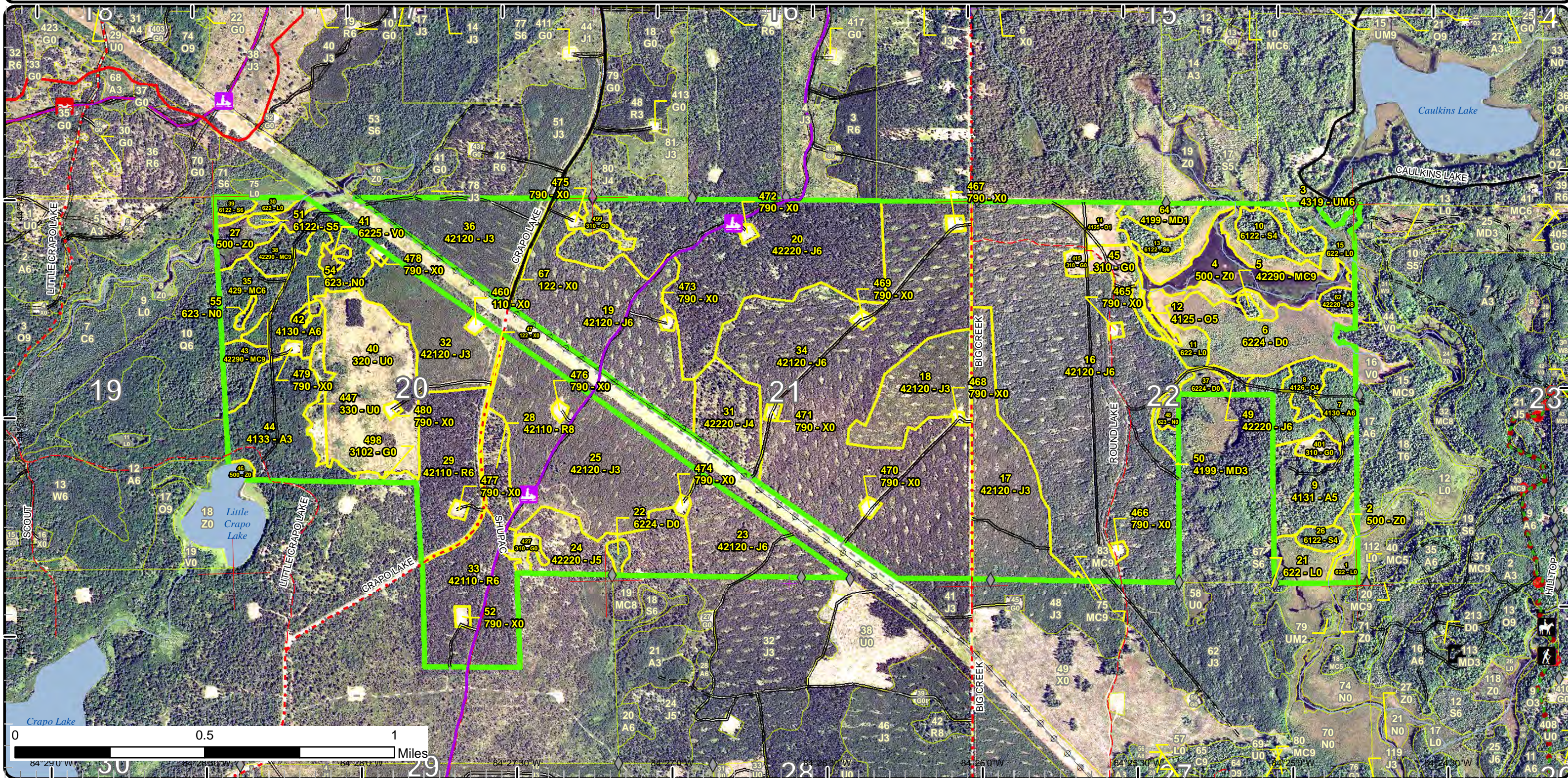


# Stand Boundary Map

Compartment: 5  
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- Miris Corners
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- ◆ Field Grade Corners
- ▭ Counties
- DNR - Secondary Forest Road
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- - - County - Gravel Road
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- - - Private - Dirt / Gravel Road
- 🚶 Hiking Trails
- 🐎 Horse Trails
- 🚗 ORV Routes
- 🛷 Snowmobile Trails
- Designated Hiking Trails
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- - - Designated ORV Route
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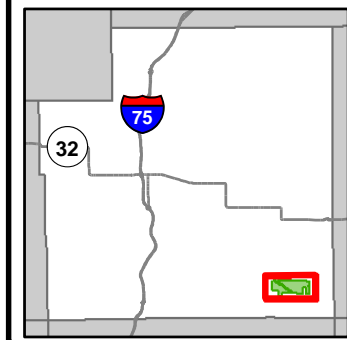


84°29'0" W 84°28'0" W 84°27'0" W 84°26'0" W 84°25'0" W 84°24'0" W  
 43°29'0" N 43°28'0" N 43°27'0" N 43°26'0" N 43°25'0" N 43°24'0" N

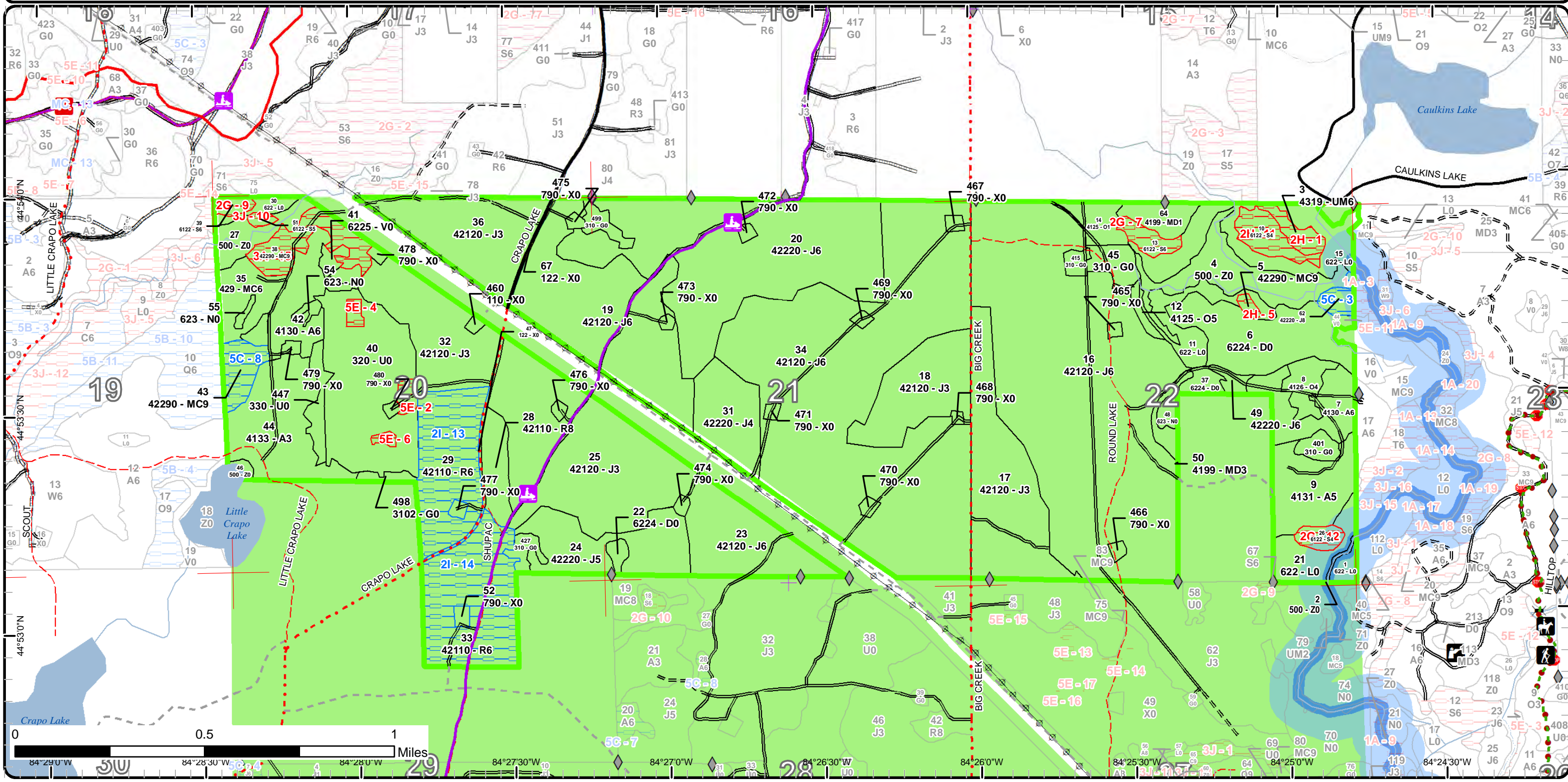


# Special Conservation Areas & Site Conditions Map

Compartment: 5  
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- Designated ORV Route
- Designated Snowmobile Trails
- Deer Blind
- Bridges
- Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams



# Report 1 – Total Acres by Cover Type and Age Class

Gaylord Mgt. Unit

Compartment 5

Year of Entry 2021

Trevor Kubitskey : Examiner



## Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	44	0	48	21	0	0	0	0	0	0	0	0	0	0	0	113
Bare/Sparsely Vegetated	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Jack Pine	0	0	43	244	604	26	165	0	0	4	0	0	0	0	0	0	0	0	1086
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Shrub	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65
Lowland Spruce/Fir	0	0	0	0	0	0	15	0	8	0	0	0	0	0	0	0	0	0	23
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	9	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	31
Oak	0	9	0	2	0	9	0	0	0	0	0	0	0	0	0	0	0	0	20
Red Pine	0	0	0	0	0	0	95	0	12	0	0	0	0	0	0	0	0	0	107
Treed Bog	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Upland Conifers	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	15
Upland Mixed Forest	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Upland Shrub	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
<b>Total</b>	<b>287</b>	<b>18</b>	<b>43</b>	<b>295</b>	<b>604</b>	<b>83</b>	<b>317</b>	<b>0</b>	<b>20</b>	<b>4</b>	<b>0</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1701</b>



## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Compartment 5

Year of Entry: 2021

Acres of Harvest

Total Compartment Acres: 1,701

Commercial Harvest - 25  
 Harvests with Site Condition - 46  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	25	0	0	0	0	0	0	0	0	25
Jack Pine	4	0	0	0	0	0	0	0	0	4
Red Pine	0	0	0	0	0	42	0	0	0	42
<b>Total</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>42</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>72</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	72	0	0	0	74	0	0	0	0	146
Next Step	0	0	0	0	74	0	30	0	0	104
<b>Total</b>	<b>72</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>148</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>249</b>



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
29	52005029-Cut	42.3	42110 - Planted Red Pine	Poletimber Well	57	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No Site Condition: Survey Needed**

Prescription Third row thin to increase residual volume. Rows present in north, but may need to be marked out in the south. Remove all Jack Pine.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other Adjacent property corners will have to be established.

Comment:

Proposed Start Date: 10/1 /2020

40	52005040-Burn	67.2	320 - Upland Shrub	Nonstocked	0	Unspecified	Burn	Opening	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No Site Condition:**

Prescription Maintain barrens community with prescribe fire until it is planted through the KW planting rotation.

Specs:

Next Step Burn, Opening  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

42	52005042-Cut	25.3	4130 - Aspen	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No Site Condition:**

Prescription Final harvest. Cut all trees 2" DBH and up with 3-5% retention in islands. Retention should be placed around lowland pockets within stand and around pockets of Red Pine and White pine. Do NOT cut White or Red Oak. Add Drum Log and Oak wilt specifications into sale.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Mainly aspen and red maple with a minor component of cherry, oak, and mixed conifers.  
Regen:

Other If needed, mark to leave "bumper" trees around Oaks to minimize damage during harvest.

Comment:

Proposed Start Date: 10/1 /2020

62	52005062-Cut	4.2	42220 - Natural Jack Pine	Sawtimber Medium	81	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No Site Condition: Age-Class or Site Quality**

Prescription Final harvest all trees 2 inches dbh and above. Protect pockets of advanced regeneration. Oak wilt specs will apply. Protect legacy trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Any mix of red maple, aspen, oak, jack, red or white pine that meets minimum stocking.  
Regen:

Other Attempt to add to Syx Mix sale. Will have to be accessed through long term retention, minimize damage and rutting within this area.

Comment:

Proposed Start Date: 10/1 /2020





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
447	52005447- Burn	6.8	330 - Low-Density Trees	Nonstocked			Burn	Opening	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Prescribe burn to maintain barrens community.

Specs:

Next Step Burn, Opening

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

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**Total Treatment  
Acreage Proposed: 145.8**



## Report 4 – Site Conditions

Gaylord Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 5

Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions									
		With Condition				2I	5B	5C	2G	2H	3A	3J	5E		
114	114	0	0	0	Aspen										
18	18	0	0	0	Bare/Sparsely Vegetated										0
2	2	0	0	0	Bog										
25	25	0	0	0	Herbaceous Openland										
1085	1081	4	0	0	Jack Pine			4							0
7	7	0	0	0	Low-Density Trees										
65	65	0	0	0	Lowland Shrub				0	0					
24	0	0	24	24	Lowland Spruce/Fir				13	10				1	
5	5	0	0	0	Marsh										
13	13	0	0	0	Mixed Upland Deciduous										
31	2	10	19	19	Natural Mixed Pines			10		2	17				
20	20	0	0	0	Oak										
107	12	95	0	0	Red Pine	95									0
48	48	0	0	0	Treed Bog					0					
15	15	0	0	0	Upland Conifers		0								
5	0	0	5	5	Upland Mixed Forest					5					
67	61	0	6	6	Upland Shrub										6
6	6	0	0	0	Urban										
44	44	0	0	0	Water		0		0					0	
1,701	1,538	109	54	54	Total Forested Acres	95	0	14	13	17	17	1		6	
	90%	6%	3%	3%	Relative Percent										

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gaylord Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 5

Year of Entry: 2021

2	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is accessible; however wasn't incorporated into sale in adjacent compartment. Would have to access through river buffer and retention.							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	2	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small knob of large natural pine timber							
6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gaylord Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 5

Year of Entry: 2021

8	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mature pines providing very good seed source for this stand and surrounding stands as well as containing signs of high wildlife use.							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	10	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Available</b>	<b>2I: Survey needed</b>	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> West property line will need to be established. T posts were found but no established corners.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 5

Year of Entry: 2021

14	<b>Available</b>	<b>2I: Survey needed</b>	53	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> T posts and pipes were found but no RLS caps or recorded corners were identified.</p>							
15	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	17	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Good site quality. Delay treatment to encourage recruitment of shade tolerant species. Good seed source.</p>							



Mgt. Unit

Compartment: #Type!

Year of Entry:



**Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS**

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

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SCA Name	SCA Category	Detail Type	Recommendation	Acres
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**Comments**

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## Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
 HCVA = High Conservation Value Area  
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	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.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
1	622 - Lowland Shrub	Nonstocked	3.3	56		No	Very wet tag alder stand. Adjacent to natural river.																																																	
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2	500 - Water	Nonstocked	0.8	56		No	West Branch Big Creek. Designated Natural River																																																	
3	4319 - Mixed Upland Forest	Poletimber Well	5.5	56	81-110	N/A	Stand growing on floodplain. Access is very difficult even from the north. Few large scattered white pines. Appears to have some beaver damage near edges. Very wet around it. Age estimate came from similar sized white pine core from stand 11 to the east.																																																	
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4	500 - Water	Nonstocked	29.4			No	A flooding that is part of the West Branch of Big Creek. A natural river.																																																	
5	42290 - Natural Mixed Pine	Sawtimber Well	1.6	106	141-170	N/A	OPIC - FMD: 1999: It seems doubtful that the timber on this island has been cut since its virgin timber was cut 100 years ago. The predominant overstory species are red pine logs with white pine logs a distant second, both in a variety of sizes (red up to 30" and white up to 106" DBH).																																																	
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6	6224 - Treed Bog	Nonstocked	41.5			No	Similar composition to stand 37 to the south, however containing more Tamarack. Mounds of sedge and grasses. Very Wet. Transitions into more sedge and grasses as you move east. Adjacent to natural river. Higher mortality in NW corner.																																																	
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7	4130 - Aspen	Poletimber Well	21.3	40	51-80	N/A	West portion of stand contains smaller diameter stems with a higher stocking of oak. Better quality to the east. Mostly pole sized with some pockets of log sized trees. SE portion of stand contains a large crowned, super canopy Oak along with scattered Red Pine possibly left from old sale. Similar to stand 8, was cut in 1979. BA is 71.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
8	4126 - White, Black, N. Pin Oak	Poletimber Poor	8.6	40	1-50	N/A	Records indicate that this was cut along with the adjacent stands in 1979. Aspen component is patchy and falling out compared to adjacent stands. BA variable throughout with averaging 47.5. Good regen of Oak in understory. Some larger crowned Oaks present throughout (~12 dbh).  OPIC - FMD: 1999: Has occasional clumps of A4. 2009: Patches of A4 are more like small, occasional patches of A6 now.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
White Oak		25	Pole	6		Black/Red (Hybrid) Oak		Medium	5 - 10 feet	Sapling
Jack Pine		15	Pole	6		White Pine		Trace	5 - 10 feet	Sapling
Red Maple		10	Sapling/Pole	4		White Oak		Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		45	Pole	6	40	Jack Pine	Low	< 5 feet	Sapling	
9	4131 - Aspen, Oak	Poletimber Medium	27.3	40	51-80	N/A	Pockets of healthy Aspen clones intermixed with Oak. Variable sized openings making canopy cover closer to 75. Within the openings are mostly open grown pines with scattered cherry brush. Moving south transitions into a Oak/Pine mix with some poor quality aspen intermixed.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		50	Pole/Log	8	40	White Pine		Trace	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		35	Pole/Sapling	6		Black Cherry		Low	< 5 feet	Sapling
Jack Pine		15	Sapling/Pole	4		Black/Red (Hybrid) Oak		Medium	10 - 20 feet	Sapling
						Red Pine		Low	10 - 20 feet	Sapling
						Sweet Fern	High	< 5 feet	Tall Shrub	
10	6122 - Black Spruce	Poletimber Poor	9.8	56	1-50	N/A	Floodplain. Wet with pockets of dry spots where trees are present. Scattered spruce and tamarack saplings. Beavers present.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Black Spruce		85	Pole/Sapling	6	56	Tag Alder		Medium	5 - 10 feet	Tall Shrub
Balsam Fir		7	Pole/Sapling	6		Black Spruce		Medium	5 - 10 feet	Sapling
						Tamarack		Low	10 - 20 feet	Sapling
11	622 - Lowland Shrub	Nonstocked	14.2			No	Scattered black spruce containing a large amount of tag alder. Lowland brush, bog mix. Patches contain some spruce saplings.			
Canopy Species		Density	Avg. Height	Size						
Tag Alder		High	< 5 feet	Tall Shrub						
Black Spruce		Low	Variable	Pole						
Leatherleaf		Medium	< 5 feet	Tall Shrub						
12	4125 - Black, N. Pin Oak	Poletimber Medium	2.2	27	Immature	N/A	Adjacent to natural river. Looks like it was cut with the adjacent jack pine stand but left to come back naturally. Many oaks are from stump sprout origin but some look to be from acorns. Some steeper slopes in areas transitioning into the L type to the east. Cherry brush prominent in pockets.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Black/Red (Hybrid) Oak		80	Pole/Sapling	6	27	Black/Red (Hybrid) Oak		Medium	5 - 10 feet	Sapling
Jack Pine		20	Pole	5		Beech		Trace	< 5 feet	Sapling
						Black Cherry	Medium	< 5 feet	Sapling	
13	6122 - Black Spruce	Poletimber Well	5.4	78	51-80	N/A	Mortality is found in the larger log sized spruce and the remaining aspen. Aspen component is isolated in the drier portions on the stand. Density increases as you move west, very wet. Pockets of mortality put it closer to 75% canopy. Adjacent to natural river.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
<b>14</b>	4125 - Black, N. Pin Oak	Sapling Poor	8.8	4	Immature	N/A	Stand was cut along with stand 64 in January 2015 as a part of the Last Second Pine sale. Clumps of better regen is found in the north and north east portions containing oak, aspen and red maple. Most Oak saplings are stump sprouts that are above browse height. Some scattered jack pine throughout. Split away from stand 45 due to it failing regeneration check.																																						
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<b>16</b>	42120 - Planted Jack Pine	Poletimber Well	232.8	33	51-80	N/A	This stand is within the the Kirtland Warbler Management area and was planted in 1986 at 1,200 TPA. The majority of the stand is pole sized but still contains many stems just under 5". Scattered throughout are some Oak stump sprouts that have established themselves in the canopy. Some pockets of mortality are found throughout. A portion of this stand was affected by the Big Creek Fire in 1981. A powerline runs through this stand.  OPIC - FMD: Previous comment: KIRTLAND WARBLER HABITAT JACK PINE PLANTED 1200 PER ACRE IN OPPOSING WAVE PATTERN. 1999: J3 is approximately 10' high. The next time this is harvested, consider cutting Stand 14 with it. 2009: Approaching pole size.																																						
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<b>17</b>	42120 - Planted Jack Pine	Sapling Well	60.8	23	Immature	N/A	Planted in 1996 with stand 18 to the west at 1,000 trees per acre. Part of management block 18. Intermixed oak and cherry saplings throughout.																																						
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<b>18</b>	42120 - Planted Jack Pine	Sapling Well	37.2	23	Immature	N/A	Planted in 1996 at 1,000 trees per acre. Some scattered volunteer red pine.																																						
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<b>19</b>	42120 - Planted Jack Pine	Poletimber Well	85.2	33	51-80	N/A	Planted in 1986 at 1,200 trees per acre. Just meets the criteria for pole sized stand (30%) but still contains stems that are under 5". Pocket of larger pole jack pine in the SE corner of stand along power line ROW. North Branch Sled Trail runs through this stand.																																																							
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<b>20</b>	42220 - Natural Jack Pine	Poletimber Well	130.0	55	51-80	N/A	Overall the stand is on the verge of a log sized stand. Most areas are larger pole sized jack pine with pockets of log sized jack pine with heavy oak regen coming up underneath. Looks to be of natural origin with no history of planting. Scattered limby, scrubby large crowned oaks throughout with some showing signs of mortality. A few red pine found on the west side of the stand. Notes say stand origin is 1944 but cores indicate a younger stand. North Branch Sled Trail runs through the stand. Has a small inclusion of planted red pine in northeast corner.																																																							
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<b>21</b>	622 - Lowland Shrub	Nonstocked	13.5	56		No	Very wet tag alder stand containing an outlet from Big Creek. Adjacent to natural river. This stand however does contain a small Black Spruce, Tamarack, Red Maple and Balsam Fir pocket that doesn't meet mapping standards (.6 acres).																																																							
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<b>22</b>	6224 - Treed Bog	Nonstocked	2.3			No	Tamarack dominated with intermixed poor quality aspen. Tag alder found throughout with mounds of sedge and grasses.																																																							
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<b>23</b>	42120 - Planted Jack Pine	Poletimber Well	38.9	33	51-80	N/A	1986 KW block planting that extends into comp 7. Few occasional oak stump sprouts with mortality in large crowned red pine left from harvest. There was originally a small stand between this and the ROW, survey pins were found to reshape compartment line along ROW so that stand is now combined with this one.																																																							
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<b>24</b>	42220 - Natural Jack Pine	Poletimber Medium	35.3	50	81-110	N/A	Highly variable stand. East and west portions are fair quality jack pine dominated with a few scattered lowland pockets. Central portion of stand around lowland contains heavy mortality within larger red pines and overmature jack pine. Heavy oak regeneration in the sub-canopy in this portion. The aspen component that is present is of better quality in the narrow area just north of stand 22.																																										
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<b>25</b>	42120 - Planted Jack Pine	Sapling Well	99.5	25	Immature	N/A	Planted in 1996. Residual oak left from harvest are showing some signs of mortality with burnt out tops and some epicormic branching. There are pockets of pole sized jack pine but not enough for overall size. The North Branch Snowmobile Trail traverses through stand. Blazing star borer was last observed within this stand in 1997.																																										
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<b>26</b>	6122 - Black Spruce	Poletimber Poor	4.4	54	1-50	N/A	Very wet. Mounds of sedge and grass with intermixed tag alder. Mortality of aspen. Adjacent to natural river. Minimal volume.																																										
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<b>27</b>	500 - Water	Nonstocked	11.4			No	A beaver dammed pond that is a part of Crapo Creek. Lots of standing dead trees within, with edges and high spots taken up by alder, grasses, spruce and tamarack. Does contain a small lowland shrub area in the southwest corner.																																										
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<b>28</b>	42110 - Planted Red Pine	Sawtimber Medium	12.1	70	81-110	N/A	Records indicate that this stand along with stand 29, and 33 were planted in 1949. This stand however looks to have been thinned and managed. Healthier and better quality than surround stands. Jack pine that was within the canopy is beginning to fall out along with the hybrid oaks. Decent quality red pine logs throughout. BA averaged out to 96 sq. ft however BA is highly variable within the stand.																																										
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<b>29</b>	42110 - Planted Red Pine	Poletimber Well	42.3	57	111-140	N/A	Initially inter-planted jack and red pine in 1949 with a large replant of red pine in 1962. Since the majority of the red pine are from the 1962 planting the dominant age is 57. ~121 ba. Many limby stems and doubles present throughout. No record or signs of previous thinnings. The jack pine component is slowly starting to fall out of the stand, along with a few scattered oaks that are starting to show signs of mortality. South portion of stand contains the majority of the first planting of red pine.																																				
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<b>30</b>	622 - Lowland Shrub	Nonstocked	3.9			No	Tag alder dominated with many snags present throughout.																																				
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<b>31</b>	42220 - Natural Jack Pine	Poletimber Poor	25.8	44	1-50	N/A	Pole sized jack pine stand with larger crowned, limby red pine trees and oak scattered throughout. Similar composition to stand 20 to the north. Old TCR report says that it was strip cut in 1976 as a part of the High Line sale.. Mortality starting to show within the oaks and red pine.																																				
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<b>32</b>	42120 - Planted Jack Pine	Sapling Well	42.8	16	Immature	N/A	This stand was planted in 2003 at 1,341 tpa. Occasional stump sprouts of oak are found throughout with a pocket of aspen that is over topping the jack pine in the northeast corner. Scattered super canopy red pine are found throughout, and some are showing signs of mortality. ROW along stand boundary was adjusted. Portion of stand near gas facility appears to be planted but survival was very low.																																				
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<b>33</b>	42110 - Planted Red Pine	Poletimber Well	52.5	57	111-140	N/A	Records indicate that this was first planted in 1949 with a replant of just red pine in 1962. The majority that are there are from the 1962 planting so that age will be recorded as dominant. Records also indicate that there was health issues with weevil damage. Much of the trees are of poor form. Red pine is beginning to overtop the existing jack pine. Very limby, poor quality red pine. The north branch snowmobile trail runs through this stand. Average BA 132 .																																				
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<b>34</b>	42120 - Planted Jack Pine	Poletimber Well	244.3	33	51-80	N/A	Planted in 1986 at 1,200 trees per acre. Mostly pole sized with some pockets of sapling sized trees. Scattered limby red pine found throughout starting to show some mortality.																																				
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<b>35</b>	429 - Mixed Upland Conifers	Poletimber Well	15.3	52	51-80	N/A	Patchy in spots. Scattered large crowned oak throughout with mostly fir and spruce coming up underneath. Aspen, oak and red maple component mostly present in the east/northeast. Mortality starting to appear within overmature fir and some Oak.																																																										
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<b>36</b>	42120 - Planted Jack Pine	Sapling Well	46.0	23	Immature	N/A	Cut in 1992, planted in 1996. Advanced red pine regeneration compared to the jack pine. Scattered oak stump sprouts with a pocket of aspen in the far west corner. 15-20ft tall. This planting does extend into the adjacent compartment to the north.																																																										
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<b>37</b>	6224 - Treed Bog	Nonstocked	4.1			No	Stand contains what seems to be an old railroad grade that connects the SE quarter of section 22 to the rest of the compartment. The road following this grade will be used to access a sale in compartment 6. (Sx Mix). Mounds of sedges and grass intermixed with tag alder and spruce.																																																										
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<b>38</b>	42290 - Natural Mixed Pine	Sawtimber Well	19.1	103	171-200	N/A	Initial selection harvest in 1988, followed by a red pine and red maple log selection harvest completed in 2015. Stand grades into a Mixed conifer type as you move to the west/southwest with a lower density but remains to have same red pine/white pine composition. Most of the red maple and white pine saplings are found in the northern portion near the ROW boundary. There is damage present on some of the residual trees from past harvests. The east/southeast portion has a larger aspen component than the rest of the stand. Good quality logs throughout. Overall BA 174.																																																										
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<b>39</b>	6122 - Black Spruce	Poletimber Well	3.0	72	81-110	N/A	Wet pockets throughout. Contains smaller diameter trees compared to stand 71 to north. Mortality present in cedar with heavy porcupine damage. The red maple and aspen that are present are very poor quality and starting to show signs of mortality also. Does contain small grade between this stand and stand 30 with a single red pine and large crowned hybrid oak. Thick understory in spots. Sedge/grass mats present throughout.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
40	320 - Upland Shrub	Nonstocked	67.2	0	Unspecified	Managed Opening	Harvested in 2016, very nice oak regeneration throughout the central portion of the stand, with pockets of aspen coming up in the east. Very close to having over 25% canopy cover with stems over 3'. Many snags are present in the northern portion of the stand as well. Some scattered red pine left with the majority of red pine in retention pockets.					
								Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Medium	10 - 20 feet	Pole	
								Red Pine	Medium	>20 feet	Log	
								Jack Pine	Low	< 5 feet	Seeding	
								Black/Red (Hybrid) Oak	High	5 - 10 feet	Sapling	
								Quaking Aspen	Low	5 - 10 feet	Sapling	
Black Cherry	Medium	5 - 10 feet	Sapling									
41	6225 - Bog	Nonstocked	2.4			No	OPIC - FMD: OI Stand Year Origin weatherleaf bog with occasional pole sized wp and bs rp.					
42	4130 - Aspen	Poletimber Well	21.1	52	81-110	N/A	Harvested in 1967. Few Oak, white and red pine logs scattered throughout. Overall the aspen is fair quality, with some pockets of decline. Larger conifer component in canopy to the north with a denser oak subcanopy in that area. A few small lowland holes are found within.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	42	Pole/Log	8	52
								Red Maple	15	Pole	6	
								White Pine	11	Pole/Log/XLog	8	
								Bigtooth Aspen	20	Pole/Log	8	
								Canopy Species	Density	Avg. Height	Size	
								Black Cherry	Low	Variable	Sapling	
								Red Maple	Medium	10 - 20 feet	Sapling	
								White Pine	Medium	5 - 10 feet	Sapling	
								Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling	
								Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub	
								Balsam Fir	Low	< 5 feet	Sapling	
Red Pine	Trace	< 5 feet	Sapling									
White Oak	Trace	< 5 feet	Sapling									
43	42290 - Natural Mixed Pine	Sawtimber Well	10.0	104	111-140	N/A	A pine log selection cut was completed in 1988. It appears that there was a lot of advanced regen of White Pine, Black Spruce, Red Maple and Balsam Fir. Mostly overtopping white pines of good quality with a pole sized class underneath. Dense White pine seedling establishment in pockets throughout. Separated from stand 35 due to age and composition. Strips of lowland areas are found within southern portion of stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	58	Log/XLog/Pole	14	104
								Balsam Fir	15	Pole	6	
								Red Pine	7	Log	14	
								Black Spruce	10	Pole	6	
								Canopy Species	Density	Avg. Height	Size	
								White Pine	Medium	5 - 10 feet	Sapling	
								Red Oak	Trace	5 - 10 feet	Sapling	
								Black Spruce	Low	5 - 10 feet	Sapling	
								Balsam Fir	Low	< 5 feet	Sapling	
								Red Maple	Low	5 - 10 feet	Sapling	
								Nannyberry	Trace	5 - 10 feet	Tall Shrub	
44	4133 - Aspen, Mixed Pine	Sapling Well	44.0	27	Immature	N/A	Multi-Polygon stand. Harvested in 1993, leaving all Red Oak and Red Pine along with a few White Pine. Multiple size classes present within. BA for residual: Oak: ~10, Red Pine:~18, White Pine:~11. Many legacy trees found throughout. A few areas have over mature aspen giving way to a good regeneration of oak and white pine (NE and SE). Larger oaks found west of two track. Fairly diverse.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	30	Sapling/Pole	4	27
								Black/Red (Hybrid) Oak	10	Log/XLog	16	
								Red Maple	8	Sapling/Pole	4	
								White Pine	16	XLog/Log/Pole	18	95
								Red Pine	11	Log/Pole/XLog	10	88
								Bigtooth Aspen	20	Sapling/Pole	4	
								Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low	5 - 10 feet	Sapling	
								Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling	
								Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub	
								White Pine	High	5 - 10 feet	Sapling	
Red Pine	Low	< 5 feet	Sapling									
Paper Birch	Low	5 - 10 feet	Sapling									





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
45	310 - Herbaceous Openland	Nonstocked	7.3	0	Unspecified	No	Originally merged with stand 14 to the north, but was split out due to failed regeneration check. This stand was harvested in 2015. Will be left out as an opening, and will be treated with surrounding jack pine when rotation for the management block is met. A pocket of Red Pine was left in the southeastern part of the stand. Heavy presence of sedge and grasses.					
								Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Low	< 5 feet	Sapling	
								Black Cherry	Low	< 5 feet	Sapling	
								Red Pine	Low	>20 feet	Log	
46	500 - Water	Nonstocked	2.0			No	North tip of Little Crapo Lake.					
47	122 - Road/Parking Lot	Nonstocked	3.3	0		No	Crapo Lake Rd.					
48	623 - Emergent Wetland	Nonstocked	2.5	0		No	Lowland wetland/bog containing mostly leatherleaf and some grasses. Wet.					
								Canopy Species	Density	Avg. Height	Size	
								Black Spruce	Low	10 - 20 feet	Pole	
								Quaking Aspen	Low	10 - 20 feet	Pole	
								Leatherleaf	High	< 5 feet	Tall Shrub	
Tag Alder	Low	5 - 10 feet	Tall Shrub									
49	42220 - Natural Jack Pine	Poletimber Well	2.7	38	51-80	N/A	Separated from stand 7 due to composition. Jack pine open grown with portions of higher density smaller stems towards the west.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	96	Pole/Sap/Log	5	38
								Canopy Species	Density	Avg. Height	Size	
								Black Cherry	Low	5 - 10 feet	Sapling	
Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling									
White Pine	Trace	10 - 20 feet	Pole									
White Oak	Trace	5 - 10 feet	Sapling									
50	4199 - Other Mixed Upland Deciduous	Sapling Well	4.5	27	51-80	N/A	Separated from stand 16 due to composition and topo. This stand slopes in areas from stand 16 down into 48. Seems to be of similar age to the adjacent jack pine, looks as if it was cut with the surrounding jack pine but unable to plant due to the slope.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	30	Pole/Sapling	6	
								Black/Red (Hybrid) Oak	50	Sapling/Pole	4	27
								Jack Pine	9	Pole	6	
Red Maple	10	Sapling	4									
Canopy Species	Density	Avg. Height	Size									
Black Cherry	Low	< 5 feet	Sapling									
Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling									
White Oak	Low	< 5 feet	Sapling									
51	6122 - Black Spruce	Poletimber Medium	1.4	56	1-50	N/A	Stand seems to look as if it is transitioning into a lowland shrub. Signs of a rising water table with heavy influences in tag alder, holly, and more sedge and grass mats. Most of the trees that are present are on higher mounds. Mortality is creating gaps where mostly cedar was present, and now tag alder is filling in. There seems to be an old grade running on the north side of the stand where the maple, pine, and aspen are mostly found. Density is very low due to mortality and patchy merchantable areas.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Spruce	85	Pole	6	56
								Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Medium	5 - 10 feet	Tall Shrub	
Michigan Holly	Low	5 - 10 feet	Tall Shrub									
Black Spruce	Low	< 5 feet	Sapling									
White Pine	Low	10 - 20 feet	Sapling									
Paper Birch	Trace	10 - 20 feet	Sapling									



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52	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.4	0	Unspecified	No	Active gas well site. Originally part of compartment 7, merged into compartment 5 with surrounding red pine stand per compartment review (3/6/2019).																																																									
54	623 - Emergent Wetland	Nonstocked	1.4			No	Small wetland pocket. Contains mostly grassy/sedge mats with occasional shrubs on the perimeter.																																																									
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55	623 - Emergent Wetland	Nonstocked	1.1			No	Small wetland pocket. Contains grass/sedge mats with leatherleaf throughout. High deer traffic area.																																																									
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62	42220 - Natural Jack Pine	Sawtimber Medium	4.2	81	51-80	N/A	Larger diameter jack pine starting to fall out along with a few scattered oaks. The jack pine and oak that are left are of good quality and healthy. There is a pocket in the middle of the stand that was aspen but has since been removed by beavers. A few aspen are still standing, but many are down. Good oak understory developing along with a few dense pockets of red maple saplings. BA: 70, 110, 80, 60, 40. White pine component diminishes as you move to the west.																																																									
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64	4199 - Other Mixed Upland Deciduous	Sapling Poor	8.7	4	Immature	N/A	Stand was harvested in January 2015 as a part of the Last Second Pine sale. Higher composition of Oak, Aspen and Red Maple than adjacent cut (stand 14). Most saplings are over browse height however heavy browsing is present. Most Oak stump sprouts are above browse height, along with some small single stem advanced Oak regen that was left from previous sale. Does contain transition zone into stand 13.																																																									
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67	122 - Road/Parking Lot	Nonstocked	1.4	0		No	Crapo Lake Rd.																																																									
401	310 - Herbaceous Openland	Nonstocked	4.3			No	Herbaceous openland with scattered oak and jack pine. Not much history on stand. Could have been used as a landing when the adjacent stands were harvested in 1979.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
415	310 - Herbaceous Openland	Nonstocked	2.6			No	Herbaceous openland composed of scattered volunteer jack pine and oak.				
								Canopy Species	Density	Avg. Height	Size
								Jack Pine	Low	5 - 10 feet	Sapling
								Black/Red (Hybrid) Oak	Trace	5 - 10 feet	Sapling
427	310 - Herbaceous Openland	Nonstocked	3.9		Immature	No	Contains a small lowland pocket too small for mapping standards along with a pocket of poor quality aspen and red maple with open grown jack pine scattered throughout. Property corner in SW of stand isn't established, no corner was found.				
								Canopy Species	Density	Avg. Height	Size
								Jack Pine	Medium	>20 feet	Pole
								Quaking Aspen	Medium	>20 feet	Pole
								Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling								
447	330 - Low-Density Trees	Nonstocked	6.8			Managed Opening	Old notes indicated plantings for wildlife in 1999. Needs maintenance. Lots of oak, pine and cherry brush establishment. some aspen clones present. A single large diameter oak, white and red pine in southern portion. Signs of an old railroad grade.				
								Canopy Species	Density	Avg. Height	Size
								Red Pine	Low	10 - 20 feet	Pole
								Black/Red (Hybrid) Oak	Medium	Variable	Pole
								Bigtooth Aspen	Low	>20 feet	Log
								Black Cherry	Medium	5 - 10 feet	Sapling
White Pine	Low	10 - 20 feet	Pole								
460	110 - Low Intensity Urban	Nonstocked	1.1			No	Muskegon Development Co Gas facility with two well heads. Permits #42255 & #43367				
465	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9		Unspecified	No	Muskegon Development Gas Well. Permit # 46517				
466	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		Unspecified	No	Muskegon Development Gas Well. Permit #46520				
467	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.3		Unspecified	No	Muskegon Development Gas Well. Permit 42921				
468	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.7		Unspecified	No	Muskegon Development Gas Well. Permit 42923				
469	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0		Unspecified	No	Muskegon Development Gas Well. Permit 42922				
470	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.2		Unspecified	No	Muskegon Development Gas Well. Permit 42924				
471	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0		Unspecified	No	Muskegon Development Gas Well. Permit 42262				
472	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		Unspecified	No	Muskegon Development Gas Well. Permit 42258				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																			
473	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9		Unspecified	No	Muskegon Development Gas Well. Permit 42263																			
474	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		Unspecified	No	Muskegon Development co gas well. permit #42925																			
475	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		Unspecified	No	Muskegon Development Gas Well. Permit 42260																			
476	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0		Immature	No	Muskegon Development Co gas well. permit #42257																			
477	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.2		Unspecified	No	Muskegon Development Co gas well. Permit #42259																			
478	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0		Unspecified	No	Muskegon Development Co gas well . Permit #42572																			
479	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		Unspecified	No	Muskegon Development co gas well . Permit #42274																			
480	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9		Unspecified	No	Muskegon Development Co gas well. permit #42256																			
498	3102 - Grass	Nonstocked	2.4		Unspecified	Managed Opening	Managed opening with patchy oak, pine and aspen pockets. Old notes mentions part of burn complex with stand 40 & 447. Recommend a survey to establish property line.																			
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499	310 - Herbaceous Openland	Nonstocked	4.4			No	Herbaceous opening containing volunteer jack pine, oak and cherry. Possible seed source from stand 20 to the east.																			
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