



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52007

Entry Year 2023

Acreage: 1,508

County Otsego

Management Area: Kirtland's Warbler

Revision Date: 2021-03-11

Stand Examiner: Matthew Foster

Legal Description:

T29N R01W Sections 26, 27, 28, 29.

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 no upland topographical features that would restrict equipment operability. Lindquist sand is the dominant upland soil type supporting the isolated stands of aspen within the compartment. Jack pine cover types are generally associated with the excessively drained Grayling, Rubicon and Graycalm sands. Tawas-Lupton mucks are found adjacent to the West Branch of Big Creek.

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

One private 40 acre in-holding occurs within section 28. Numerous private parcels also adjoin exterior compartment boundaries most notably in Section 29. A privately owned electric transmission line corridor crosses through the compartment in sections 27 and 28. Numerous Antrim gas wells and associated flow lines are in production throughout the compartment.

Unique Natural Features:

A recent search of the Michigan Natural Features Inventory database indicated the possible presence of Hill's thistle (*Cirsium hillii*) within this compartment. Numerous occurrences of Kirtland's warbler (*Dendroica kirtlandii*) have also been documented.

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

This compartment is designated as a High Conservation Value Area due to the Kirtland's Warbler habitat that it contains.

Watershed and Fisheries Considerations:

This compartment is within the N Br Au Sable River and W Br Big Creek watersheds, both of which are within the larger Au Sable River drainage basin. The compartment contains Round Lake and a portion of West Branch Big Creek. Since no treatments are scheduled near waterbodies, there are no fisheries concerns at this time.

Wildlife Habitat Considerations:

This compartment consists mostly of upland areas with a small lake in the middle of Section 27 and West Branch of Big Creek runs through the northeast corner of the same section. These wetland areas are used by some waterfowl and furbearers and a variety of amphibians. The rest of the compartment contains mainly a jack pine/oak complex that lies within the Kirtland's Warbler management area. Large harvests and plantings have been performed over the past few rotations to provide early successional habitat for the Kirtland's warbler along with white-tailed deer, wild turkey, black bear, and various oak/pine barren species.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is located more than six miles to the east, but there appears to be some potential for sand & gravel within the compartment. All State-owned mineral rights in the compartment are currently leased and in production for Antrim Shale gas. The compartment lies on the southern edge of the Guelph (Niagaran) reef trend, and potential for oil & gas from this play appears to be limited. There is no known potential for metallic minerals in this part of the state.

Vehicle Access:

Access is good throughout the compartment, due in large part to the continuing Antrim gas development.

Survey Needs:

None

Recreational Facilities and Opportunities:

The North Branch snowmobile trail passes through section 29 following Shupac Trail which is a seasonal maintained County Road.

Fire Protection:

The compartment is composed of extremely high risk fuel types. This combined with the activities associated with the intense Antrim Gas development puts this compartment at a very high risk for future wildfires similar to the Big Creek fire which burned a portion of this compartment in 1981. The existing road network does provide easy access to most off road areas within the compartment.

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

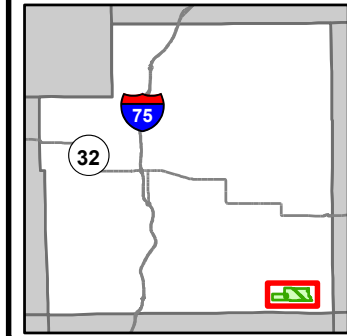
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

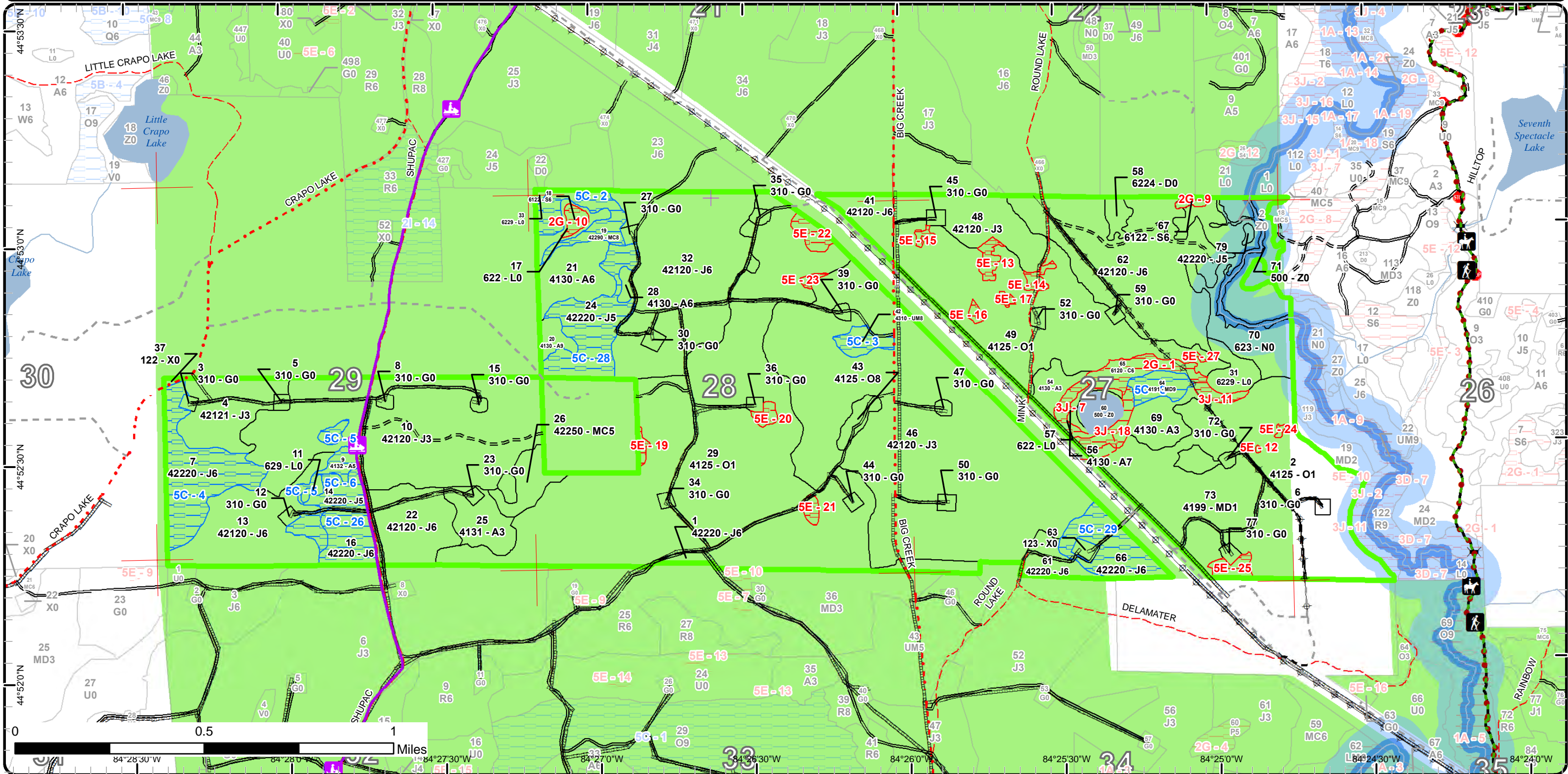
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Special Conservation Areas

Compartment: 7
 T29N, R01W, Sec. 26-29
 County: Otsego
 Unit: Gaylord
 Mgmt Area: Kirtland's Warbler
 YOE: 2023
 Acres: 1508 GIS Calculated
 Examiner: Matthew Foster
 Map Revised: 10/5/2021
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Horse Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Bridges
- Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 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



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	30	0	25	0	0	0	0	8	8	0	0	0	0	0	0	0	0	71
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	10
Herbaceous Openland	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Jack Pine	0	0	25	371	178	48	27	70	31	0	0	0	0	0	0	0	0	0	750
Lowland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
Marsh	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Mixed Upland Deciduous	0	85	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	99
Natural Mixed Pines	0	0	0	0	0	0	0	0	10	0	0	0	14	0	0	0	0	0	24
Oak	0	432	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	436
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	98	547	25	396	178	48	27	70	49	32	0	0	18	10	0	0	0	0	1497



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 7

Total Compartment Acres: 1,508

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

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	0	0	0	0	0	261	0	0	261
Total	0	0	0	0	0	0	261	0	0	261



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	Habitat Cut
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Approved Treatments:

29	52007029-Monitor	261.1	4125 - Black, N. Pin Oak	Sapling Poor	4	Immature	Monitoring	Artificial Regen(3yr)	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Year 3 survey.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A stand of planted Jack Pine that meets KW standards.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

Total Treatment Acreage Proposed: 261.1

Report 4 – Site Conditions

Gaylord Mgt. Unit
Matthew Foster : Examiner

Compartment: 7
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2G	3J	5E
		With Condition	Not Available					
71	61	6	4	Aspen	6		4	
9	0	0	9	Cedar		9		
24	24	0	0	Herbaceous Openland				
749	648	101	0	Jack Pine	101	0		
8	8	0	0	Lowland Shrub		0		
4	0	0	4	Lowland Spruce/Fir		4		
48	48	0	0	Marsh		0		
99	81	7	11	Mixed Upland Deciduous	7		8	3
24	10	14	0	Natural Mixed Pines	14			
432	418	0	15	Oak				15
4	4	0	0	Treed Bog				
5	0	5	0	Upland Mixed Forest	5			
2	2	0	0	Urban				
12	12	0	0	Water				
1,491	1,315	133	43	Total Forested Acres	133	13	11	18
	88%	9%	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	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Matthew Foster : Examiner

Compartment: 7
Year of Entry: 2023

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Matthew Foster : Examiner

Compartment: 7
Year of Entry: 2023

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Matthew Foster : Examiner

Compartment: 7
Year of Entry: 2023

16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Matthew Foster : Examiner

Compartment: 7
Year of Entry: 2023

24	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



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																																										
2	4125 - Black, N. Pin Oak	Sapling Poor	61.8	5	Immature	N/A	Harvested in 2016, a few red pine left. Planted 75 red oak and 75 white oak summer 2018. Also planted in 2018 with 80% jack pine and 20% red pine in straight rows. Overall this is a borderline forested/non-forested stand right now. Regeneration survey was not done until now: 720 jp/acre, 250 rp/acre, 420 oak/acre, 320 aspen/acre, 80 cherry/acre. Average height of planted pine is 1.7ft, natural regeneration is 5-7ft tall. This will grow into a mixed jack pine/oak stand once pine gets above 3ft tall. Accepted current regeneration through 2021 compartment review.																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern Pin Oak</td> <td>70</td> <td>Sapling</td> <td>1</td> <td>5</td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>20</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Northern Pin Oak	70	Sapling	1	5	Black Cherry	10	Sapling	1		Bigtooth Aspen	20	Sapling	1		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>High</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	High	< 5 feet	Sapling	Red Pine	Low	< 5 feet	Sapling													
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3	310 - Herbaceous Openland	Nonstocked	1.0		Immature		Gas well, Muskegon Development State Charleton C1-29.																																										
4	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	24.7	14	Immature	N/A	This stand was harvested in 2004 leaving all sub-merchantable jack pine plus some scattered residual oak log trees, was planted in 2007. The jack pine that was left during the harvest is now pole sized and scattered throughout the stand.																																										
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5	310 - Herbaceous Openland	Nonstocked	1.2		Immature		Gas well, Muskegon Development State Charleton C2-29.																																										
6	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, Muskegon Development State Charleton D 1-26.																																										
7	42220 - Natural Jack Pine	Poletimber Well	31.0	75	51-80	N/A	Low quality oak, mortality occurring in the oak and pine. Some open areas, this is on the lower end of this canopy closure. This stand needs to be restarted.																																										
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8	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, Muskegon Development State Charleton C3-29.																																										
9	4132 - Aspen, Jack Pine	Poletimber Medium	6.1	76	51-80	N/A	This is a multi-poly stand of low quality, over-mature aspen. The northern portion was left as a residual island when the surrounding jack pine stand was harvested. The aspen component in all areas of the stand is rapidly declining and a heavy understory of mixed species is filling in. Scattered large red pine are found in the southern portion of the stand.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
10	42120 - Planted Jack Pine	Sapling Well	118.9	26	Immature	N/A	This stand was harvested during multiple operations that spanned several years. The entire block was then planted in 1995 as part of the KW management plan. The jack pine averages about 15 feet tall. Dense, a few scattered log sized oak throughout.																																
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11	629 - Mixed non-forested wetland	Nonstocked	1.3			No	A small isolated area of lowland grass and shrub species.																																
12	310 - Herbaceous Openland	Nonstocked	1.1				Gas well, Muskegon Development State Charleton D2-29.																																
13	42120 - Planted Jack Pine	Poletimber Well	39.4	48	51-80	N/A	Planted species are pole sized while some of the older trees are close to log sized. Could be considered a two aged stand. Hold another 10 years. Old comment: This stand was harvested in the early 1970's and then machine seeded to jack pine in 1973. My assumption is that the timber sale only removed merchantable timber and that all sub-merchantable trees were left uncut. This would explain why there are some larger diameter trees scattered throughout. A few aspen clones exist but they are too small to meet mapping standards.																																
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14	42220 - Natural Jack Pine	Poletimber Medium	11.5	66	1-50	N/A	Similar to stand 16 to the south, just lower stocking and less developed understory. Old RR grade goes through the middle.																																
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16	42220 - Natural Jack Pine	Poletimber Well	12.5	66	51-80	N/A	Pretty much the same as the stand to the north just higher stocking. Mortality is occurring, understory of oak is developing.																																
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17	622 - Lowland Shrub	Nonstocked	4.1			No	Mostly tag alder, filling in with trees from adjacent stands.																																



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18	6122 - Black Spruce	Poletimber Well	2.4	115	81-110	N/A	A small stand of small diameter lowland conifers. Leatherleaf and black spruce saplings throughout the understory. Very wet.																																																															
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19	42290 - Natural Mixed Pine	Sawtimber Medium	14.4	110	81-110	N/A	Most of this stand had pine selectively removed in a 1985 harvest. This stand is extremely variable in part due to that earlier harvest treatment but also due to the influence of the nearby wetlands. Both the overstory and understory is more open in the west half of this stand. Hold this stand and look to manage when aspen in stand 21 is ready to be harvested.																																																															
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20	4130 - Aspen	Sawtimber Well	4.4	80	51-80	N/A	A low quality, overmature stand of aspen that should have been harvested by now. Mortality is occurring, look to harvest.																																																															
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21	4130 - Aspen	Poletimber Well	17.7	27	51-80	N/A	This stand was cut in 1994, all red and white pine were left as residual. Most of these trees are widely scattered except along the western edge of the stand where there is a significant concentration near the lowlands. The western and southwestern portions of this stand are wet. Stand is just entering pole size class.																																																															
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22	42120 - Planted Jack Pine	Poletimber Well	27.2	50	51-80	N/A	This stand was harvested in the late 1960's and then re-planted in 1970. Apparently the survival rate of that planting was so low that the stand was machine seeded in 1971. Stand is now developing an oak understory. There are scattered larger diameter jack pine throughout the stand that were probably left during the initial harvest.																																																															
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24	42220 - Natural Jack Pine	Poletimber Medium	27.2	65	51-80	N/A	This is a variable stand both in stocking density and in represented size classes. It is very heavy to jack pine with only occasional oak, aspen and red pine. This is definitely not a fully stocked stand, especially on the north end. Some spots may have been planted, jack pine mortality is starting to occur.																																							
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25	4131 - Aspen, Oak	Sapling Well	15.3	4	Immature	N/A	Harvested in 2017, coming back well. Despite being harvested with an aspen/oak management objective, the west polygon was trenched and planted with adjacent stand 29. This portion of the stand has jack pine and red pine underneath the aspen/oak.																																							
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26	42250 - Pine, Oak	Poletimber Medium	9.9	70	51-80	N/A	It appears that this stand had some type of a partial harvest many years ago since there are cut oak stumps throughout. As a result the canopy is not closed which has allowed a heavy understory to develop. Some oak mortality is starting to occur. Would like to hold 10 years with all of the adjacent cutting that has occurred.																																							
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27	310 - Herbaceous Openland	Nonstocked	1.2				Gas well, Muskegon Development State Charleton A2-28.																																							
28	4130 - Aspen	Poletimber Well	1.9	71	81-110	N/A	Low quality aspen pocket with some jack pine mixed in. Look to harvest this stand.																																							
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29	4125 - Black, N. Pin Oak	Sapling Poor	270.1	4	Immature	N/A	Harvested in 2017, trenched in 08/2017. Planted and failed Year 1 regen survey, replanted 5/7/2020, year 1 regen survey completed 09/12/2020, 869 JP/acre (planted and volunteer), 75 planted RP/acre, 2,000 oak/acre, 41 cherry/acre, and 14 rm/acre. Average height of volunteers is 3-4ft tall and average height of planted species is 1.5ft. Some areas are more open than others due to oak browse.																																							
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30	310 - Herbaceous Openland	Nonstocked	1.6				Gas well, Muskegon Development State Charleton B2-28.																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
32	42120 - Planted Jack Pine	Poletimber Well	86.3	35	Immature	N/A	This is a 1986 KW planting block that extends north into the adjacent compartment. It is almost pure jack pine with only occasional oak stump sprout clumps. Red pine trees were left as residual throughout. Stand is thick, just entering pole size class.																																										
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39	310 - Herbaceous Openland	Nonstocked	1.1				Gas well, Muskegon Development State Charleton B4-28.																																										
41	42120 - Planted Jack Pine	Poletimber Well	10.8	35		N/A	This is a 1986 KW planting that extends well to the north into the adjacent compartment. The jack pine is currently about 20 feet tall. Oak stump sprouts are found throughout as are a few widely scattered oak residual trees. Stand is dense, about 20-25ft tall.																																										
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42	4310 - Pine, Oak Mix	Sawtimber Medium	5.2	80	51-80	N/A	This is a residual island that was intentionally left when the surrounding stand was cut. This is not a fully stocked stand, as a result the understory is well developed, especially with oak. Jack pine is working its way up into the canopy.																																										
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43	4125 - Black, N. Pin Oak	Sawtimber Medium	4.5	80	1-50	N/A	This stand was intentionally left as a residual island when the surrounding stand was cut. This is primarily a lightly stocked stand of low quality oak. It has a well developed understory of jack pine and oak. Jack pine is working its way up into the canopy.																																										
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46	42120 - Planted Jack Pine	Sapling Well	226.7	25	Immature	N/A	This is a large KW block that was cut during multiple harvest operations and then re-planted in 1996. Most of the jack pine averages between 15-20ft tall, a few scattered log sized red pine.																																											
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47	310 - Herbaceous Openland	Nonstocked	1.1				Gas well, Muskegon Development State Charleton C1-27.																																											
48	42120 - Planted Jack Pine	Sapling Well	25.1	25	Immature	N/A	This is part of a large 1996 KW planting block, the majority of which extends to the north into the adjacent compartment. No residual trees were left when this stand was cut, jack pine is about 15-20ft tall.																																											
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49	4125 - Black, N. Pin Oak	Sapling Poor	100.4	6	Immature	N/A	Harvested in 2015, planted in 2017 in KW weave pattern. Regenerating survey has not been done until now. About 527 jp/acre, 707 oak/acre, 120 cherry/acre, 33 aspen/acre. Average height of planted jack pine is 2ft, natural regeneration is 4-6ft. East half of this stand has more natural regeneration than west half. Accepted current regeneration through 2021 compartment review.																																											
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50	310 - Herbaceous Openland	Nonstocked	1.4				Gas well, Muskegon Development State Charleton D1-27.																																											
52	310 - Herbaceous Openland	Nonstocked	1.3				Gas well, Muskegon Development State Charleton B2-27.																																											
54	4130 - Aspen	Sapling Well	6.9	27	Immature	N/A	This stand was harvested in 1994, a few widely scattered red pine were left as residual. Old notes indicated beaver activity in portions of this stand after the harvest. Aspen is growing well now, overall this is a borderline sapling/pole stand developing a red maple understory.																																											
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56	4130 - Aspen	Sawtimber Poor	3.9	85	1-50	N/A	This stand was left when the adjacent stand #54 was cut. This stand is over-mature and is slowly falling apart, being replaced by a heavy red maple understory. Most of this stand is on a downslope to the lake, leave as natural buffer.																																											
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57	622 - Lowland Shrub	Nonstocked	2.4			No	A narrow strip of lowland brush immediately adjacent to Round Lake, slowly filling in with some trees.																																										
58	6224 - Treed Bog	Nonstocked	3.6			No	This is a leatherleaf bog that is filling in with spruce and jack pine following the Big Creek fire.																																										
59	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, Muskegon Development State Charleton B 3-27.																																										
60	500 - Water	Nonstocked	6.7			No	Round Lake.																																										
61	42220 - Natural Jack Pine	Poletimber Well	8.8	45	1-50	N/A	Old notes indicate a harvest in this stand at some point, looks like residual oak and red pine were left. Jack pine is now pole size and the stand is developing a heavy oak understory.																																										
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62	42120 - Planted Jack Pine	Poletimber Well	80.4	35		N/A	This stand was burned during the 1981 Big Creek fire, re-planted in 1986 and is now a KW management block. There are a few scattered aspen clones in this plantation as well. The far northern edge of this stand was not planted possibly due to property line concerns. This area is regenerating naturally to jack pine. Stand is dense, some of the weak tops are snapping. The far west end of the stand has a small pocket (~1 acre), of older natural jack pine, most likely survived the Big Creek Fire.																																										
63	123 - Other High Intensity Urban	Nonstocked	1.8				This is a fenced and gated CPF site. Muskegon Development Round Lake Facility.																																										
64	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	14.3	85	51-80	N/A	The quality of the aspen and oak in this stand is similar to that of stand #72. This stand though is entirely lacking the red pine component plus there is more jack pine here as compared to stand #72. mixed stand, take out finger, more rm understory north, code adjacent stand low shrub filling with some spruce																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
65	6120 - Lowland Cedar	Poletimber Well	9.6	120	111-140	N/A	A fairly dense stand with a thick tag alder understory. This stand occupies a low run which connects Round Lake with the marshlands along Big Creek. Very wet, a couple of sparse areas full of tag alder included.																																									
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66	42220 - Natural Jack Pine	Poletimber Well	18.9	61	51-80	N/A	Some mortality occurring in the jack pine, thick oak understory is developing. Look to harvest this stand.																																									
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67	6122 - Black Spruce	Poletimber Well	1.4	115	111-140	N/A	This stand was within the interior of the 1981 Big Creek fire. The majority of the stand survived due to the lowland character of the stand. The far eastern portion, however, is actually upland and did burn to be replaced by natural regeneration. This upland area was less than an acre in size though so it did not meet the mapping standards for a stand. Tag alder and leatherleaf common in the understory.																																									
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69	4130 - Aspen	Sapling Well	14.8	6	Immature	N/A	Harvested in 2015 with adjacent stand 73, this portion was not trenched and planted. Good aspen regeneration in most spots, a little more open with cherry in the northwest portion of the stand. Some natural jack pine coming up underneath the aspen.																																									
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70	623 - Emergent Wetland	Nonstocked	47.8			No	A marshland that lies adjacent to Big Creek. Near the edges with the uplands, tag alder and leatherleaf are common.																																									
71	500 - Water	Nonstocked	5.6			No	West Branch Big Creek, designated Natural River.																																									
72	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, Muskegon Development State Charleton C4-27.																																									
73	4199 - Other Mixed Upland Deciduous	Sapling Poor	84.8	6	Immature	N/A	Harvested in 2015, planted in spring 2018 in KW weave pattern. Year 3 survey completed in fall of 2020. Results indicate 811 JP/acre (volunteer and planted), 1,017 oak/acre, 365 aspen/acre and 94 cherry/acre. Volunteer species average 3-6ft tall while planted pine average 2ft tall. More of a mixed stand now than a jack pine plantation, per policy will not replant JP.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
77	310 - Herbaceous Openland	Nonstocked	1.3				Gas well, Muskegon Development State Charleton D4-27.