



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52119

Entry Year 2021

Acreage: 1,528

County Emmet

Management Area: Mackinaw Lake Plain

Revision Date: 2019-07-14

Stand Examiner: Donald Stacks

Legal Description:

T39N R04W Sections 31, 32, 33.

Identified Planning Goals:

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

Soil and topography:

The compartment consists entirely of very poorly drained soils such as Tawas, Thomas, and Carbondale muck, as well as Eastport, Iosco, and Brevort mucky loamy sands. The terrain is very flat, except for a small ridge of slightly higher ground in section 31.

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

Wilderness State Park is adjacent to the compartment on the west boundary. Private residences can be found to the north on Wilderness Park Dr. and to the south on Cecil Bay Rd.

Unique Natural Features:

Stands 3 and 7 are listed as parts of a rich conifer swamp type ERA. See attached report. Species listed in the MNFI data base include grizzled skipper, Hungerford's crawling water beetle, and Sprague's pygarctia. There is an area also listed as a rich conifer swamp.

Archeological, Historical, and Cultural Features:

None listed.

Special Management Designations or Considerations:

An ERA is designated in sections 32 and 33 classified as a rich conifer forest type. Active timber management is very difficult, if not impossible, because of the amount of poorly drained soils and standing water found throughout most of the compartment.

Watershed and Fisheries Considerations:

This compartment contains a portion of the Carp Lake River, a tributary to Lake Michigan in the Paradise Lake watershed. Standard best management practices should be applied. This compartment is in the Central Lake Michigan Management Unit.

Wildlife Habitat Considerations:

Lowland forests in this compartment provide quality habitats for wildlife species dependent upon them. A variety of songbird species use this area during migration and there is potential for raptor nesting as well. This compartment also borders French Farm flooding.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are located less than three miles to the east. There may be some sand & gravel potential within the compartment on the uplands. The compartment is many miles from the nearest current or past oil and gas production. There is no known oil and gas potential in the area, and there is no active mineral leasing in the vicinity. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Two county roads provide limited access into the compartment.

Survey Needs:

None.

Recreational Facilities and Opportunities:

The North Country Pathway hiking trail runs through the compartment. Wilderness State Park campground is located two miles to the west.

Fire Protection:

The Indian River DNR field office is located about 32 miles to the southeast and the Carp Lake VFD is located about five miles to the southeast of the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

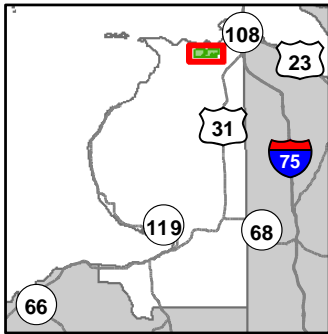
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

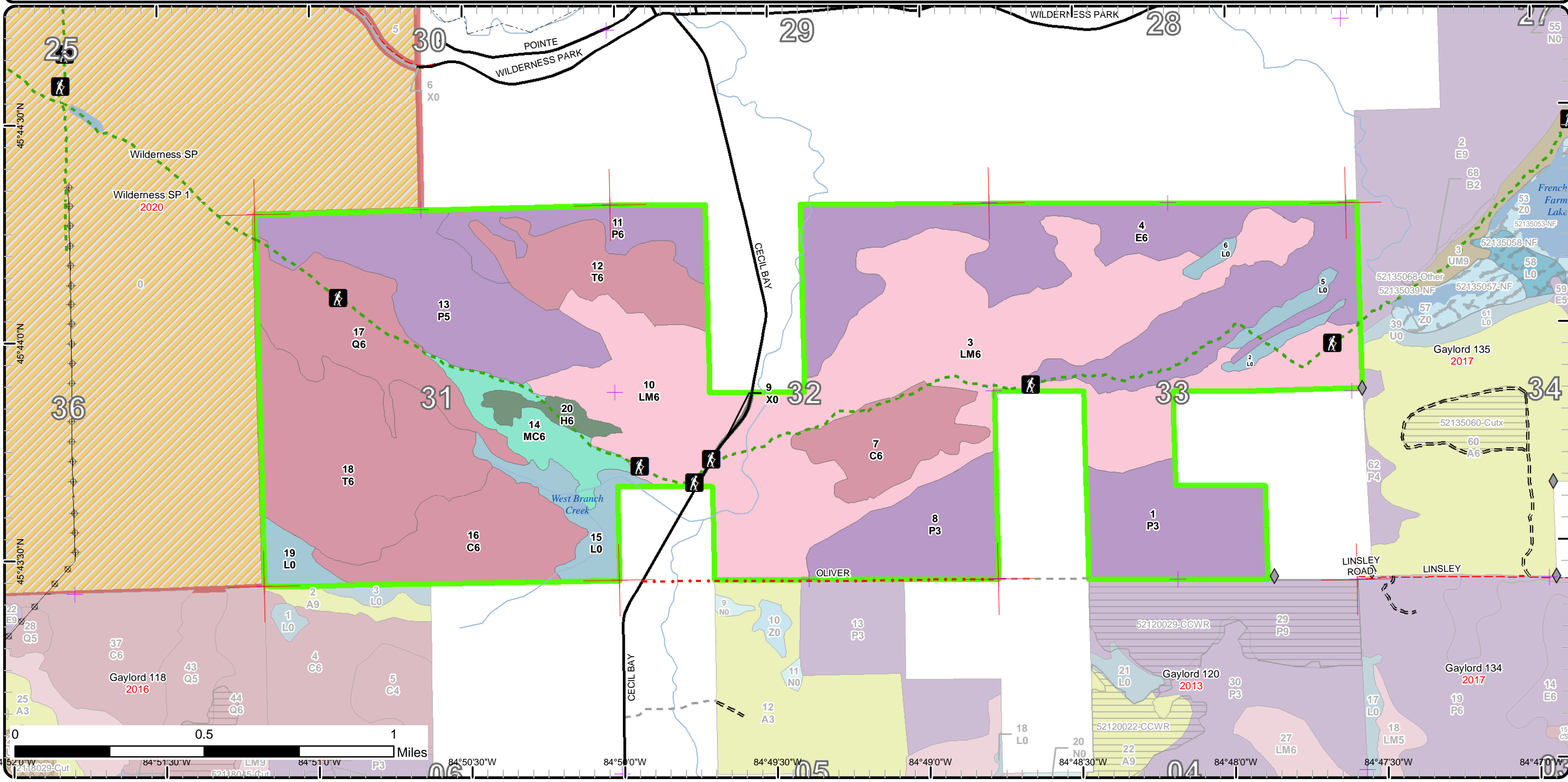
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 119
 T39N, R04W, Sec. 31-33
 County: Emmet
 Unit: Gaylord
 Mgmt Area: Mackinaw Lake Plain
 YOE: 2021
 Acres: 1,528 GIS Calculated
 Examiner: Donald Stacks
 Map Revised: 10/8/2019
 Map Phase: Post-Review

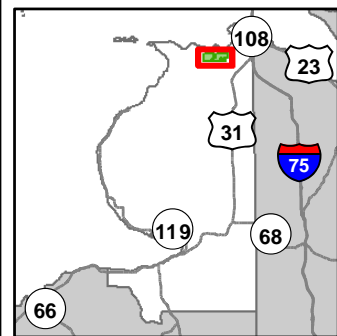


- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🚶 Hiking Trails
- - - Designated Hiking Trails
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- ⊕ Powerline
- Compartment Boundary
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 622 - Lowland Shrub
- Lakes

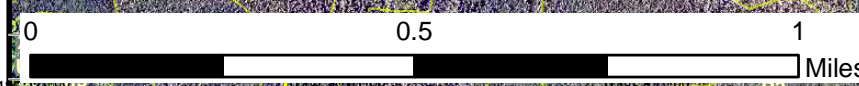
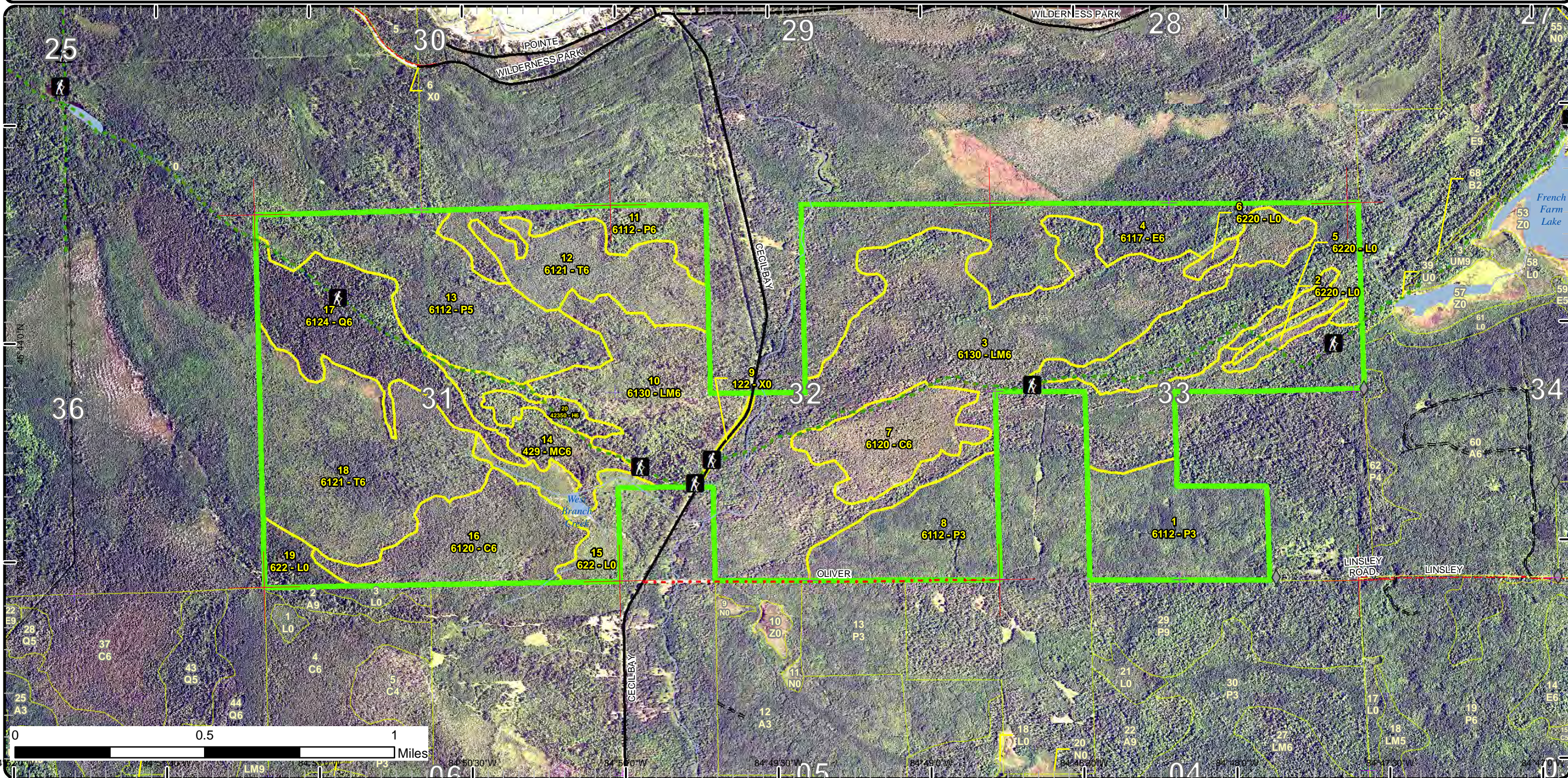


Stand Boundary Map

Compartment: 119
 T39N, R04W, Sec. 31-33
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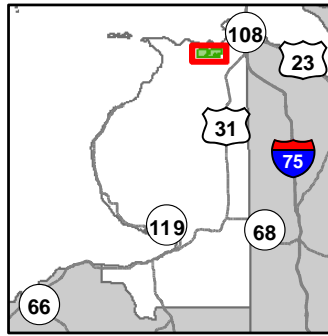


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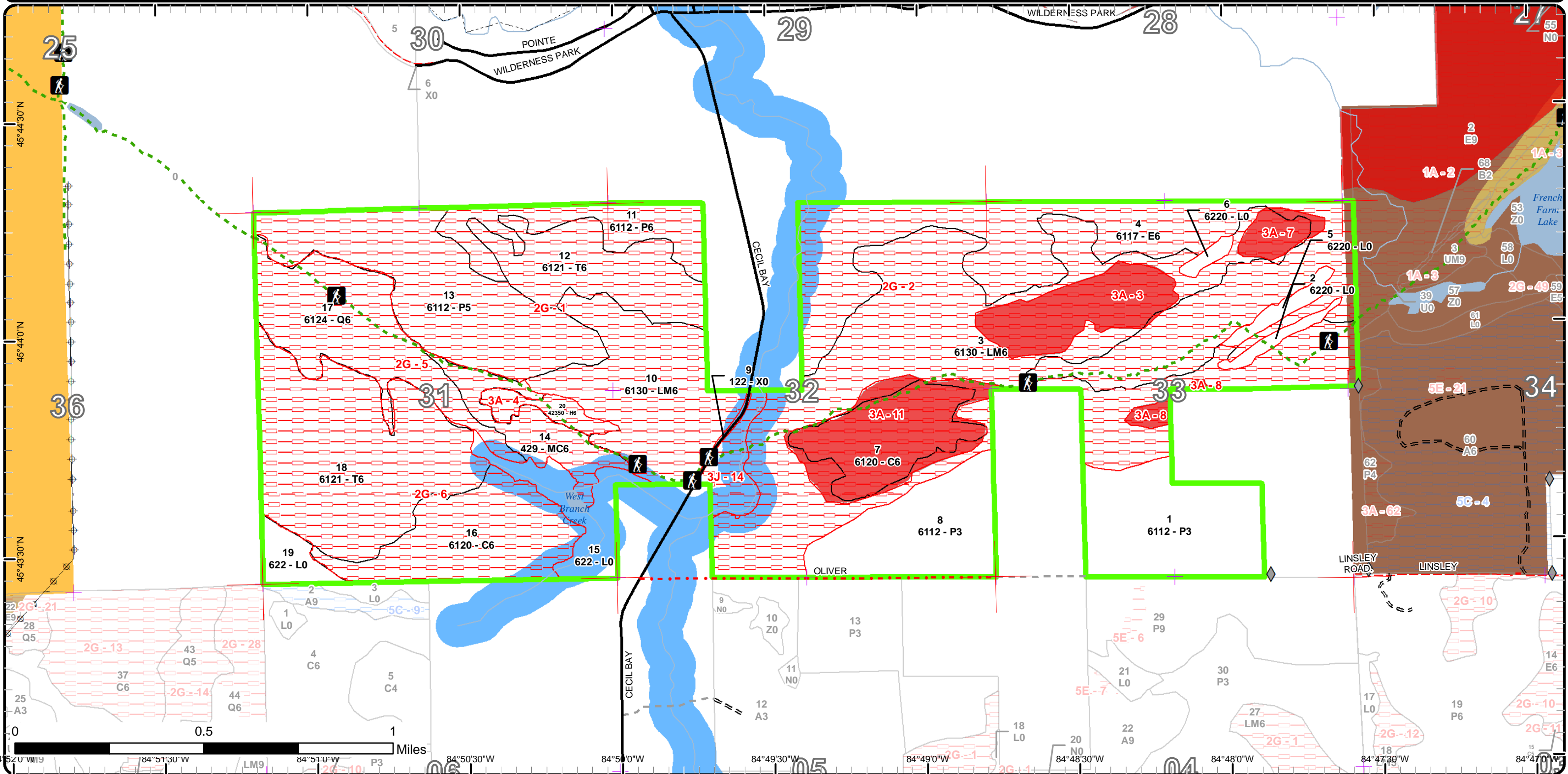


Special Conservation Areas & Site Conditions Map

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- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- ⊕ Powerline
- ▭ Compartment Boundary
- ▭ Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- ▭ Stand Boundaries
- ▭ Ecological Reference Areas
- ▭ Critical Dunes
- ▭ Forest Habitat Core Interior
- ▭ Cold Water Streams
- ▭ Cold Water Lakes
- ▭ Non-Dedicated Natural Areas and National Natural Landmarks
- ▭ High Priority Trout Stream Buffer
- ▭ Wildlife Management Areas





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
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	76	0	0	54	0	130
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	12
Lowland Aspen/Balsam Poplar	0	0	0	0	152	0	117	0	44	0	0	0	0	0	0	0	0	0	313
Lowland Conifers	0	0	0	0	0	0	0	0	0	83	0	0	0	0	0	0	0	0	83
Lowland Deciduous	0	0	0	0	0	0	0	0	215	0	0	0	0	0	0	0	0	0	215
Lowland Mixed Forest	0	0	0	0	0	0	0	0	467	0	0	0	0	0	0	0	0	0	467
Lowland Shrub	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65
Tamarack	0	0	0	0	0	0	0	0	0	63	0	0	0	145	0	0	0	0	208
Upland Conifers	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	33
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	67	0	0	0	152	0	117	0	726	179	0	0	0	221	0	12	54	0	1528



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 119

Total Compartment Acres: 1,528

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



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
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#Type!

Habitat Cut:PrescriptionSpecs:Next StepTreatments:AcceptableRegen:OtherComment:Proposed Start Date:

**Total Treatment
Acreage Proposed: 0.0**

Report 4 – Site Conditions

Gaylord Mgt. Unit
Donald Stacks : Examiner

Compartment: 119
Year of Entry: 2021

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

5C 1A 2G 3A 3J

130	0	0	130	Cedar	76	54
12	0	0	12	Hemlock	0	12
312	152	0	161	Lowland Aspen/Balsam Poplar	161	
83	0	0	83	Lowland Conifers	83	
215	0	0	215	Lowland Deciduous	0	212 3
467	0	0	467	Lowland Mixed Forest	0	370 80 18
65	65	0	0	Lowland Shrub	0	
208	0	0	208	Tamarack	208	
33	0	0	33	Upland Conifers	33	0
2	2	0	0	Urban		0
1,528	219	0	1,310	Total Forested Acres	0	0 1,143 149 18
	14%	0%	86%	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)	320	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	486	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Donald Stacks : Examiner

Compartment: 119
Year of Entry: 2021

3	Unavailable	3A: Conservation Values incompatible with harvest at this time	47	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: ERA							
4	Unavailable	3A: Conservation Values incompatible with harvest at this time	12	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	118	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	220	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3A: Conservation Values incompatible with harvest at this time	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: ERA							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Donald Stacks : Examiner

Compartment: 119
Year of Entry: 2021

8	Unavailable	3A: Conservation Values incompatible with harvest at this time	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: ERA							
11	Unavailable	3A: Conservation Values incompatible with harvest at this time	71	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: ERA.							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	3D: Recreational / Scenic values	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 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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
1	6112 - Lowland Aspen	Sapling Well	82.5	32	Immature	N/A	MIXED ASPEN REGEN, IN TRANSITION FROM SAPS TO POLETIMBER, ON POORLY DRAINED SOIL. LESSER AMOUNTS OF BALSAM FIR, RED MAPLE, BLACK SPRUCE, AND CEDAR. FINAL HARVEST IN 10 - 20 YEARS. HARVEST STANDS 1 AND 8 TEN YEARS APART TO BREAK UP AGE/SIZE CLASS. ADJACENT TO OLIVER RD.																																																		
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2	6220 - Alder/willow	Nonstocked	6.3		Unspecified	No	Tag older and other lowland shrubs on very poorly drained soil. Standing water present. Very sparse, scattered cedar, black spruce, tamarack, and dead black ash also present.																																																		
3	6130 - Fir, Aspen, Maple	Poletimber Well	370.9	70	111-140	N/A	Mostly balsam fir with lesser amounts of red maple, quaking aspen, paper birch, and black spruce located on very poorly drained soil. Standing water is found throughout most of the stand. Occasional white pine, cedar, tamarack are also present. Sparse, over-mature BTA can be found on a few places where slightly higher ground exists. North Country Pathway and the Carp River run through portions of the stand.																																																		
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5	6220 - Alder/willow	Nonstocked	8.5		Unspecified	No	Tag older and other lowland shrubs on very poorly drained soil. Standing water present. Very sparse, scattered cedar, black spruce, tamarack, and dead black ash also present.																																																		
6	6220 - Alder/willow	Nonstocked	3.9		Unspecified	No	Tag alder and other lowland brush on very poorly drained soil. Very sparse, scattered cedar, tamarack, black spruce, and lots of dead black ash also present.																																																		
7	6120 - Lowland Cedar	Poletimber Well	54.0	159	141-170	N/A	DENSE, FAIRLY HIGH QUALITY CEDAR WITH SCATTERED B. FIR, TAMARACK, AND B. SPRUCE, ON VERY WET, POORLY DRAINED SOIL. STAND IS A DESIGNATED ERA, RICH CONIFER SWAMP. NORTH COUNTRY PATHWAY RUNS ALONG NORTH EDGE OF STAND. NOT SUITABLE FOR HARVEST. SITE CONDITIONS IN EFFECT.																																																		
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8	6112 - Lowland Aspen	Sapling Well	69.1	32	Immature	N/A	MIXED ASPEN REGEN, IN TRANSITION FROM SAPS TO POLETIMBER, ON POORLY DRAINED SOIL, WITH LESSER AMOUNTS OF RED MAPLE, BALSAM FIR, AND BLACK SPRUCE. SPARSE, SCATTERED PAPER BIRCH, BALSAM POPLAR, AND A COUPLE BTA CLONES ALSO PRESENT. FINAL HARVEST THIS STAND IN 10 - 20 YEARS. HARVEST STANDS 8 AND 1 TEN YEARS APART TO BREAK UP AGE/SIZE CLASS. ADJACENT TO OLIVER RD.																																													
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9	122 - Road/Parking Lot	Nonstocked	2.0		Unspecified	No	CECIL BAY RD.																																													
10	6130 - Fir, Aspen, Maple	Poletimber Well	96.5	70	81-110	N/A	MIX OF SWAMP CONIFERS/QUAKING ASPEN/RED MAPLE. MUCH OF ASPEN IN STAND IS DEAD OR DYING. DENSE LOWLAND SHRUB GROWTH IN UNDERSTORY. FACTOR LIMITED, TOO WET TO HARVEST. ADJACENT TO CECIL BAY RD. NORTH COUNTRY PATHWAY RUNS ALONG SOUTH EDGE OF STAND.																																													
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11	6112 - Lowland Aspen	Poletimber Well	43.5	70	51-80	N/A	LESSER STOCKED OVERSTORY OF MOSTLY QUAKING ASPEN POLETIMBER/SAWLOGS, WHICH IS DECLINING AND FALLING OUT OF STAND, AND RED MAPLE POLETIMBER/SAWLOGS. BALSAM FIR IS STARTING TO REPLACE THE DECLINING ASPEN COMPONENT. SCATTERED BLACK SPRUCE, TAMARACK, WHITE PINE, AND BALSAM POPLAR ALSO PRESENT. PRESENT BA IS ABOUT 60 SQ. FT. STANDING WATER. TOO WET TO HARVEST. VERY DENSE SAPLINGS AND LOWLAND SHRUBS IN UNDERSTORY.																																													
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12	6121 - Tamarack	Poletimber Well	63.3	85	51-80	N/A	TAMARACK WITH SCATTERED RED MAPLE, BLACK SPRUCE, BALSAM FIR, AND CEDAR. VERY WET, STANDING WATER PRESENT. AVERAGE BA IS ABOUT 60 SQ. FT. VERY DENSE LOWLAND SHRUBS AND SAPLINGS IN UNDERSTORY.																																													
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13	6112 - Lowland Aspen	Poletimber Medium	117.3	50	1-50	N/A	Stand consists of a lower stocked overstory of mostly red maple and quaking aspen, on very wet, poorly trained soil. Average BA is about 50 sq. ft. Too wet to ever harvest. Sparse, scattered balsam fir and black ash are found in the stand as well. Understory is very dense.																																															
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14	429 - Mixed Upland Conifers	Poletimber Well	33.3	82	51-80	N/A	Mixed conifers on a slightly higher and drier site. Scattered open areas found within stand. Average BA is about 60 sq. ft. North Country Pathway runs through stand. Protect recreational and scenic values. No cut.																																															
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15	622 - Lowland Shrub	Nonstocked	32.1		Unspecified	No	LOWLAND BRUSH ON VERY WET SITE. SEVERAL DRAINAGES PRESENT.																																															
16	6120 - Lowland Cedar	Poletimber Well	75.6	125	111-140	N/A	MIX OF CEDAR AND TAMARACK OVER VERY DENSE LOWLAND SHRUB GROWTH, ON VERY WET SOIL. AVERAGE BA IS ABOUT 130 SQ. FT. STANDING WATER PRESENT. FACTOR LIMITED. TOO WET TO HARVEST.																																															
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17	6124 - Lowland Spruce-Fir	Poletimber Well	83.3	82	51-80	N/A	MOSTLY BLACK SPRUCE POLETIMBER WITH LESSER AMOUNTS OF RED PINE AND WHITE PINE SAWTIMBER. AVERAGE BA IS ABOUT 80 SQ. FT. FAIRLY DENSE UNDERSTORY. LOCATED ON SLIGHTLY HIGHER GROUND AND DRIER SOIL THAN SURROUNDING STANDS. NORTH COUNTRY PATHWAY RUNS THROUGH STAND. PROTECT VISUAL AND RECREATIONAL VALUES, AS WELL AS FRAGILE SOIL. NO CUT.																																															
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18	6121 - Tamarack	Poletimber Well	145.1	125	51-80	N/A	MOSTLY TAMARACK WITH LESSERAMOUNTS CEDAR OVER DENSE L- TYPE SHRUBS ON VERY WET SITE. BA IS ABOUT 80 SQ. FT. STANDING WATER PRESENT. TOO WET TO HARVEST.																																															
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19	622 - Lowland Shrub	Nonstocked	14.2	0	Unspecified	No	Lowland shrubs with sparse scattered aspen/conifer mix in SW corner of stand. Very wet. Difficult access.																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
20	42350 - Upland Hemlock	Poletimber Well	12.3	146	81-110	N/A	DENSE, ALMOST PURE STAND OF HEMLOCK POLETIMBER/SAWLOGS, WITH SCATTERED WHITE PINE SAWTIMBER, ON SLIGHTLY HIGHER GROUND WITH DRIER SOIL THAN SURROUNDING STANDS. BA AVERAGES ABOUT 110 SQ. FT. NORTH COUNTRY PATHWAY RUNS THROUGH STAND. SPARSE UNDERSTORY. SPARSE, SCATTERED PAPER BIRCH AND RED MAPLE POLETIMBER IS ALSO PRESENT. PROTECT UNIQUE HEMLOCK STAND FOR VISUAL AND RECREASIONAL VALUES. SHOULD NEVER BE HARVESTED.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Hemlock		95	Pole/Sap/Log	8	146	Hemlock		Medium	>20 feet	Sapling