



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42045

Entry Year 2022

Acreage: 934

County Luce

Management Area: Deer Park

Revision Date: 2020-07-10

Stand Examiner: Amy Livermore

Legal Description:

Sections 19 & 30-31, T49N-R8W, Luce County

Identified Planning Goals:

Timber, wildlife, recreation, and fisheries are the main uses of this area. The goal is to manage for all of these simultaneously and to provide, enhance and perpetuate their uses through proper management. Forest treatments prescribed will help ensure the sustainability of the forest resource and continue to enhance the quality of the wildlife habitat.

Soil and topography:

Soil types include Wallace, Rubicon-Spot Mix, ponded Histols & Aquent, Rousseau fine sand; Carbondale, Lupton, Tawas; Spot-Dawson Peats, Rousseau-Dawson Complex, and a small pocket of Finch Sand. The topography in this compartment is steep to rolling with kettle lakes and pine ridges scattered throughout the area.

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

The entire compartment is state owned. There is a combination of private land and Forestland Group surrounding the compartment. Land use in this compartment include hunting, fishing, wildlife/nature viewing, dog sledding, ORVs, and hiking.

Unique Natural Features:

Michigan Natural Features Inventory (MNFI) lists the occurrence of high-quality muskeg and high quality dry northern forest. Potential for red-shouldered hawk, goshawk, merlin, great blue heron rookery, eagle, and osprey are also listed. There is potential for moose, wolf, incurvate emerald, frigga fritillary, freija fritillary, ebony boghunter in the boggy areas, and wood turtle. Other potential species include sweet coltsfoot, Wiegand's sedge, northern prostrate clubmoss, fir clubmoss, English sundew, meadow beauty, round-leaved orchis, black crowberry, yellow pitcher-plant, panicled screwstem in bogs and open wetlands. Potential for calypso orchis, Lapland buttercup, ram's head lady's slipper, round-leaved orchid, and limestone oak fern in cedar swamps.

Archeological, Historical, and Cultural Features:

None noted.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

The Little Two-Hearted River is a designated trout stream supporting native brook trout and receives runs of steelhead and salmon in the spring and fall, respectively. The riparian zone and valley walls are unstable due to the very sandy soils covering the area. Any treatments near the riparian zone should consider a buffer from the top of the valley walls for 100 ft plus 5 ft per 1% increase in slope. The sand substrate is highly erodible and furrows would produce a straight, instantaneous sand drop into the river.

Wildlife Habitat Considerations:

Compartment 45 lies in northeastern Luce county and is situated in the Seney Sand Lake Plain ecological sub-subsection. The compartment has a good diversity of types with lowland forest types, mixed pine, and mixed upland deciduous types interspersed. Aspen is present in the compartment as well as non-forested wetlands throughout.

A single shelterwood harvest in mixed pine is scheduled to occur. It will retain mixed conifer and will strive to maintain the travel corridor that would be used by wildlife traversing the compartment. Wildlife using this compartment are expected to be diverse due to the varying forest types and their interspersed nature.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for

metallic minerals in this area. No active sand/gravel pits exist in the area. There appears to be some potential for sand within the compartment, but much of the compartment is covered by wetlands, which could inhibit any surface development. No current mineral leasing activity exists in the area.

Vehicle Access:

This east edge of the compartment can be accessed by County Road 500. There forest roads throughout the compartment that can be used to access the interior of the compartment during the dry times of the year.

Survey Needs:

Some private property lines will need to be confirmed in order for treatments to occur.

Recreational Facilities and Opportunities:

Recreational opportunities include ORV riding, hunting, fishing, wildlife/nature view, dog sledding, and hiking. The North Country Pathway runs through the compartment. Fishing opportunities exist in the Little Two Hearted River. Dog sledders use the forest roads all year to run their sled dogs.

Fire Protection:

This compartment is in the Two Hearted Zone Dispatch Area. There is a good fragmentation of the fuel types making the risk for large fire growth of this area moderate. Private property risk is high in this area because of the fuel type and locations.

Additional Compartment Information:

The following reports from the Inventory are attached:

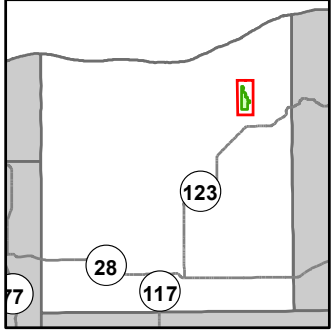
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

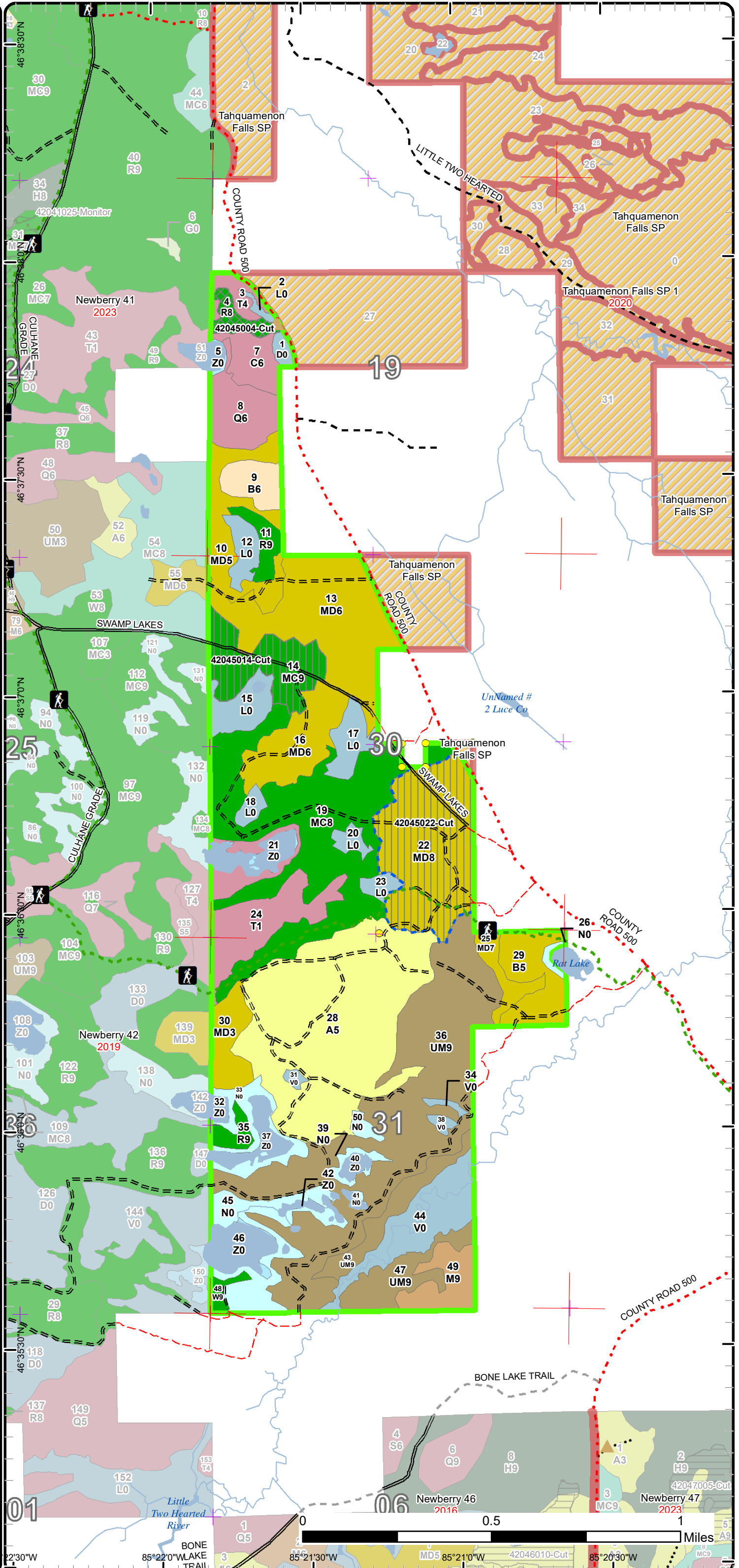
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 45
 T49N, R08W, Sec. 19, 30, 31
 County: Luce
 Unit: Newberry
 Mgmt Area: Deer Park
 YOE: 2022
 Acres: 934.1 GIS Calculated
 Examiner: Amy Livernore
 Map Revised: 1/25/2021
 Map Phase: Post-Review

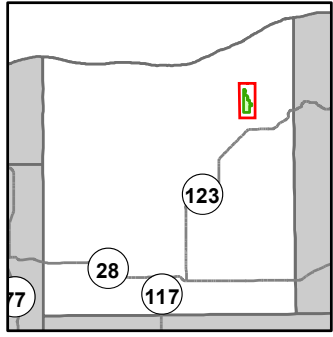


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- DNR - Management Access
- Hiking Trails
- Designated Hiking Trails
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

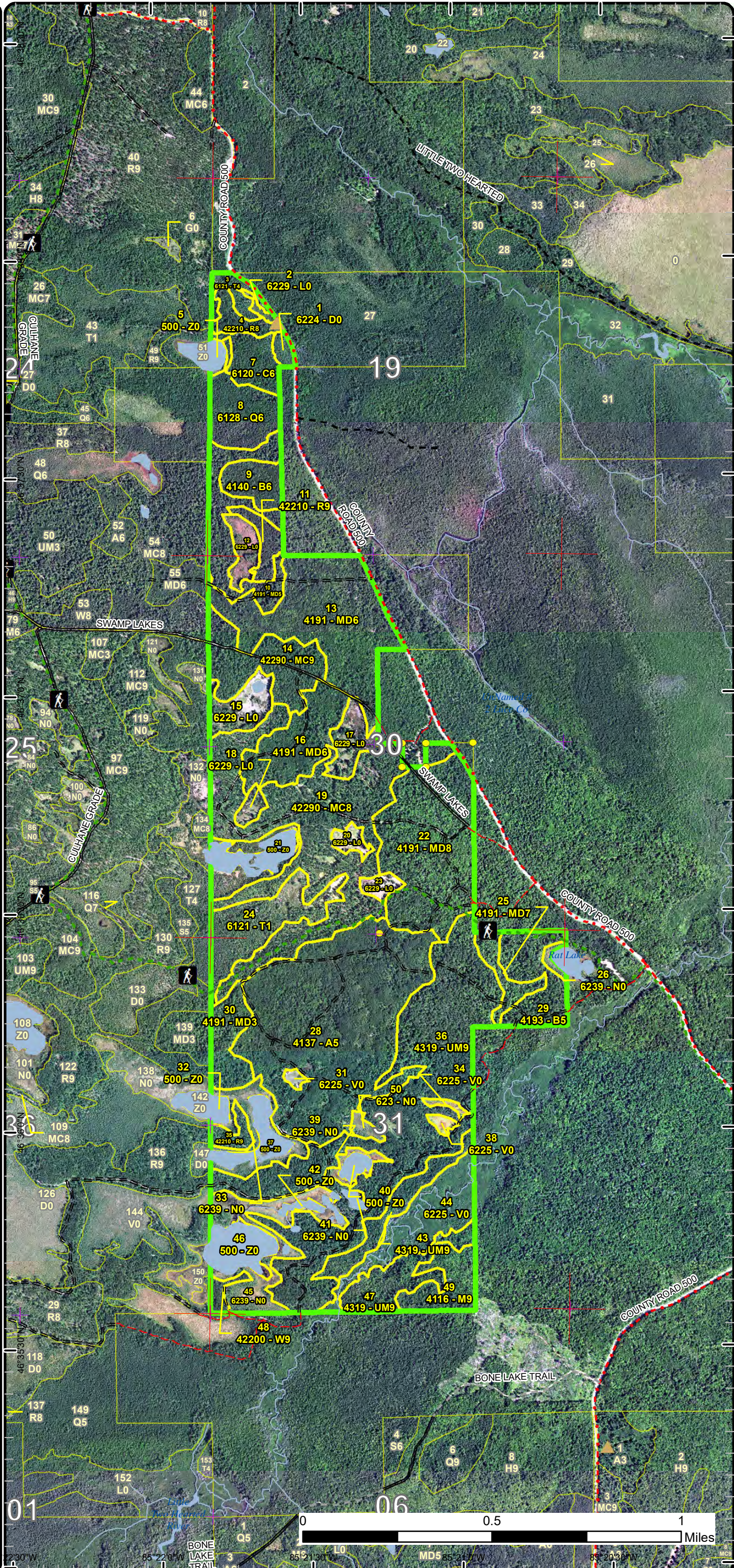


Stand Boundary Map

Compartment: 45
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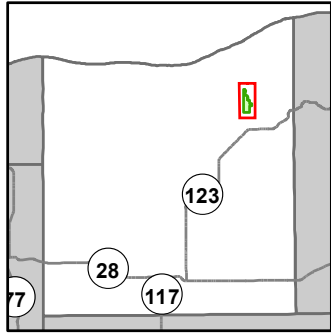


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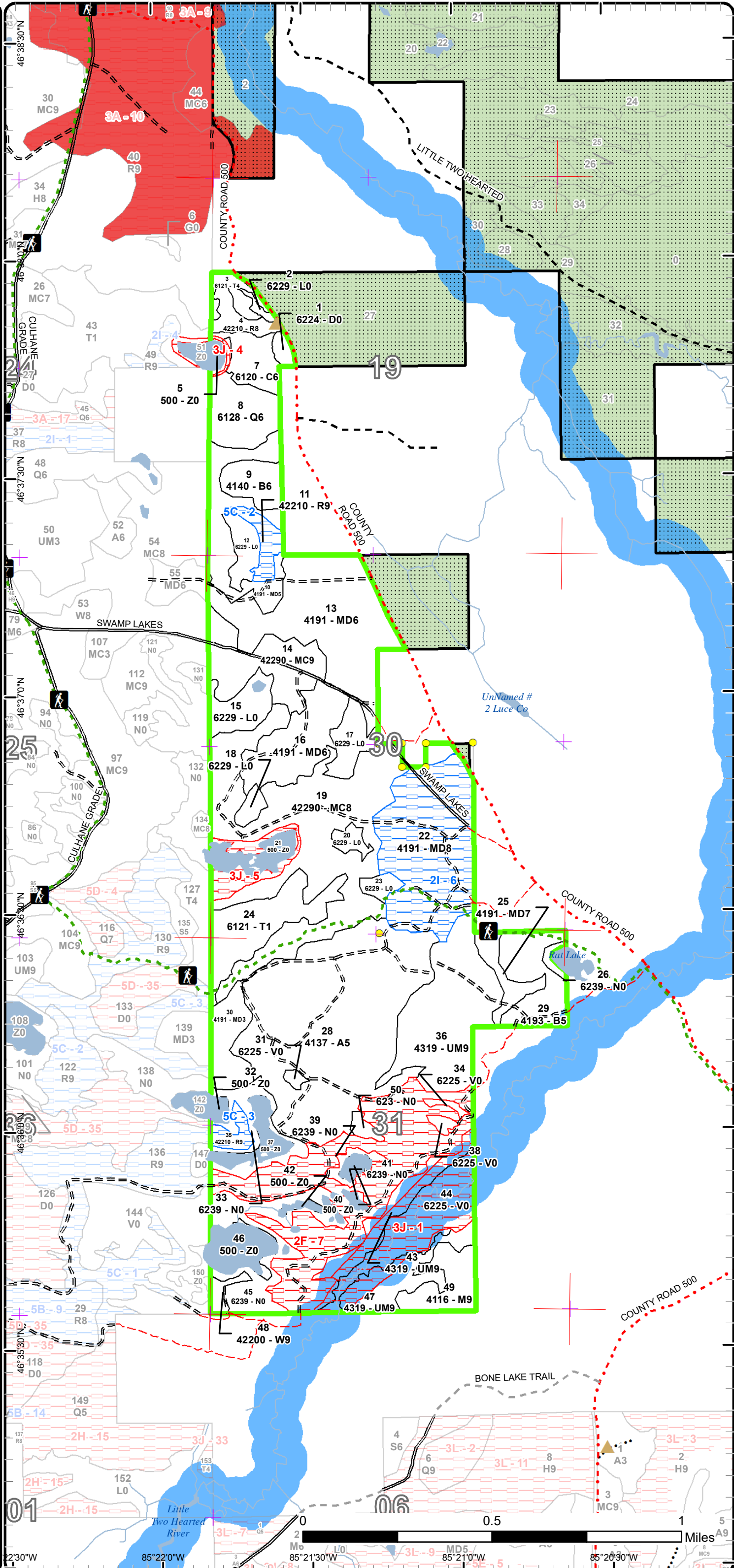


Special Conservation Areas

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 T49N, R08W, Sec. 19, 30, 31
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- Hiking Trails
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- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area



Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 45

Year of Entry 2022

Amy Livermore : 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	0	128	0	0	0	0	0	0	0	0	0	0	0	0	0	128
Bog	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Cedar	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	12
Lowland Conifers	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20
Lowland Shrub	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Marsh	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Mixed Upland Deciduous	0	0	0	0	0	67	0	0	72	0	0	0	0	0	0	0	0	64	203
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	100	29	0	0	0	0	0	0	129
Northern Hardwood	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	16
Paper Birch	0	0	0	0	21	11	0	0	0	0	0	0	0	0	0	0	0	0	32
Red Pine	0	0	0	0	0	0	0	0	0	7	5	7	0	0	0	0	0	0	19
Tamarack	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0	44
Treed Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	170	0	0	0	0	0	0	170
Water	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
White Pine	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
Total	160	0	0	0	149	78	44	16	104	7	105	209	0	0	0	0	0	64	936



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 45
Total Compartment Acres: 934

Commercial Harvest - 35
 Harvests with Site Condition - 64
 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
Mixed Upland Deciduous	0	0	0	0	64	0	0	0	0	64
Natural Mixed Pines	0	0	0	0	29	0	0	0	0	29
Red Pine	0	7	0	0	0	0	0	0	0	7
Total	0	7	0	0	93	0	0	0	0	99

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	99	0	0	0	0	0	0	0	0	99
Next Step	0	29	0	0	0	0	99	0	0	128
Total	99	29	0	0	0	0	99	0	0	228



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:

4	42045004-Cut	6.6	42210 - Natural Red Pine	Sawtimber Medium	86	81-110	Harvest	Single Tree Selection	4221 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin 70-90 BA. Take care to leave diversity where present. Target trees for harvest that will be out of size class next YOE.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine, white pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
14	42045014-Cut	28.8	42290 - Natural Mixed Pine	Sawtimber Well	101	111- 140	Harvest	Shelterwood with Retention	4221 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Shelterwood 30-40 BA. 2 inch spec. Leave hemlock pockets where they exist. The remaining BA from the hemlock pockets must be factored into the 30-40 BA that will remain. Mark to leave. A buffer will be needed where there is open water present in stand 15 according to the BMP manual. Save any legacy trees that are present.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine, white pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
22	42045022-Cut	64.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	75	51-80	Harvest	Shelterwood with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Thin to 30 BA. Leave wolfy trees of various deciduous species. Leave any healthy beech present. Leave hemlock and white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red maple, hemlock, white pine, paper birch, yellow birch, aspen, spruce</p> <p><u>Regen:</u></p> <p><u>Other</u> Keep in contact with NCT personnel once the sale is sold.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

Total Treatment 99.4
Acreage Proposed:

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Livermore : Examiner

Compartment: 45
Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2I	5C	2F	3J
128	128	0	0	Aspen				
33	5	0	28	Bog				28
12	12	0	0	Cedar				0
20	19	0	1	Lowland Conifers				1
42	42	0	0	Lowland Shrub				
49	49	0	0	Marsh				
203	139	64	0	Mixed Upland Deciduous	64			
128	128	0	0	Natural Mixed Pines				
16	16	0	0	Northern Hardwood				
32	32	0	0	Paper Birch				
18	7	12	0	Red Pine		12		
44	33	0	10	Tamarack				10
3	3	0	0	Treed Bog				
170	70	0	100	Upland Mixed Forest			85	15
34	34	0	0	Water				
3	3	0	0	White Pine				
934	719	76	139	Total Forested Acres	64	12	85	54
	77%	8%	15%	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	3J: Water quality / BMPs (stream, river, or lake)	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Livermore : Examiner

Compartment: 45
Year of Entry: 2022



3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2I: Survey needed	64	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2F: Too steep	85	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.
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	6224 - Treed Bog	Nonstocked	2.6	0		No																																										
2	6229 - Mixed lowland shrub	Nonstocked	1.4		Immature	No																																										
		<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>Labrador Tea</td> <td>Full</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Paper Birch</td> <td>Trace</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Tamarack</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Trace</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>Red Maple</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Leatherleaf</td> <td>Full</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>				Sub-Canopy Species	Density	Avg. Height	Size	Labrador Tea	Full	< 5 feet	Tall Shrub	Paper Birch	Trace	>20 feet	Pole	Bigtooth Aspen	Trace	10 - 20 feet	Sapling	Tamarack	Low	10 - 20 feet	Sapling	Black Spruce	Trace	>20 feet	Pole	Red Maple	Trace	10 - 20 feet	Sapling	Leatherleaf	Full	< 5 feet	Tall Shrub											
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3	6121 - Tamarack	Poletimber Poor	6.2	58	1-50	N/A	Ground cover species include leather leaf and horsetails. The WP in this stand is supercanopy and scattered throughout. There are also some white birch, red maple, and black willow along the edge and a few scattered though the stand.																																									
<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>Black Spruce</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>80</td> <td>Pole</td> <td>5</td> <td>58</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	10	Sapling/Pole	4		Tamarack	80	Pole	5	58	White Pine	10	Pole/Log	8		<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>Black Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Tamarack</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Willow</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Leatherleaf</td> <td>High</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>				Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Low	5 - 10 feet	Sapling	Tamarack	Low	5 - 10 feet	Sapling	Black Willow	Low	< 5 feet	Tall Shrub	Leatherleaf	High	< 5 feet	Tall Shrub			
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4	42210 - Natural Red Pine	Sawtimber Medium	6.6	86	81-110	N/A	Stand borders lake. The understory is fairly thick with black spruce, red maple and some cedar. There are some large log white and red pine scattered in the stand.																																									
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5	500 - Water	Nonstocked	2.2			No																																										
7	6120 - Lowland Cedar	Poletimber Well	11.8	76	1-50	N/A	stand is very wet. Maple tops are dying out.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 20.0 71 Unspecified N/A Transition zone between a more upland hardwood stand and lowland conifer stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		Red Maple	High	< 5 feet	Tall Shrub
Paper Birch	10	Pole	8		Black Spruce	High	< 5 feet	Tall Shrub
Bigtooth Aspen	10	Pole	6		White Pine	Low	< 5 feet	Tall Shrub
Black Spruce	10	Pole	6		Aspen (spp.)	High	5 - 10 feet	Sapling
Northern White Cedar	10	Pole	5					
Tamarack	20	Pole	6	71				
White Pine	20	Log/Pole	10	71				
Black Willow	10	Sapling	3					

9 4140 - Other Upland Deciduous Poletimber Well 11.0 46 1-50 N/A Young white birch stand with scattered hemlock/white pine through out. There are some white birch and red maple regeneration present as well. Most of the canopy level regeneration is about 2 sticks tall.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	8		Red Maple	High	< 5 feet	Tall Shrub
Paper Birch	60	Pole	6	46	Paper Birch	Medium	< 5 feet	Tall Shrub
White Pine	5	Pole	6		Balsam Fir	Medium	< 5 feet	Tall Shrub
Hemlock	20	Log	14		White Pine	Low	< 5 feet	Tall Shrub
Quaking Aspen	5	Pole	6		Hemlock	Medium	< 5 feet	Tall Shrub
Balsam Fir	5	Pole	5					

10 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 25.7 41 51-80 N/A There is a ridge that separates stands 6 and 8. Ther is a heavier fir/hemlock component around the border of the stand. The fir understory is pretty thick.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole	8	41	Red Maple	Medium	< 5 feet	Tall Shrub
Paper Birch	25	Pole	8		Beech	Medium	< 5 feet	Tall Shrub
Bigtooth Aspen	5	Pole	6		Balsam Fir	High	< 5 feet	Tall Shrub
White Pine	10	Log/XLog	14		Hemlock	Low	< 5 feet	Tall Shrub

11 42210 - Natural Red Pine Sawtimber Well 7.0 101 111-140 N/A Black spruce is distributed around the perimeter. There are large log red and white pine in the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log	14		Red Maple	High	10 - 20 feet	Sapling
Red Pine	90	Log	14	101	Beech	Low	5 - 10 feet	Tall Shrub
					Paper Birch	Low	10 - 20 feet	Sapling
					Bigtooth Aspen	Low	10 - 20 feet	Sapling
					Balsam Fir	Low	5 - 10 feet	Tall Shrub
					Black Spruce	Low	10 - 20 feet	Tall Shrub
					White Pine	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12 6229 - Mixed lowland shrub Nonstocked 7.5 No The stand was full of water in the 1997 aerial photos.

Sub-Canopy Species	Density	Avg. Height	Size
Leatherleaf	Full		Tall Shrub
Red Pine	Medium		Seeding
Labrador Tea	High		Tall Shrub
Black Spruce	Trace		Seeding

13 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 64.3 41 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Pole/Log	8	41
Paper Birch	35	Pole	6	
White Spruce	10	Log/Pole	10	
White Pine	15	Log	14	
Hemlock	5	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Medium	10 - 20 feet	Sapling
White Pine	Low	< 5 feet	Tall Shrub
Hemlock	Medium	10 - 20 feet	Sapling
Aspen (spp.)	Low	10 - 20 feet	Sapling

14 42290 - Natural Mixed Pine Sawtimber Well 28.8 101 111-140 N/A

Stand looks like it has been thinned before. There are a lot of sapling sized deciduous trees in the understory.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	8	
White Pine	50	Log/Pole/XLog	14	101
Red Pine	40	Log/Pole/XLog	14	101
Hemlock	5	Log/Pole/XLog	12	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	>20 feet	Sapling
Beech	Medium	< 5 feet	Tall Shrub
Paper Birch	High	>20 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling
Quaking Aspen	Low	>20 feet	Sapling

15 6229 - Mixed lowland shrub Nonstocked 12.1 No

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Trace		Seeding
Leatherleaf	High		Tall Shrub
Labrador Tea	High		Tall Shrub
Red Pine	Medium		Seeding

16 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 26.6 42 1-50 N/A

Stand is mostly red maple and aspen with some scattered pockets of hemlock and white birch. There is a small amount of yellow birch and supercanopy white pine scattered in the stand. The white pine are large log diameters. Ground cover species include: star flower, club moss, and lily of the valley

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	XLog	20	
Red Maple	30	Pole	6	42
Paper Birch	20	Pole	6	42
Bigtooth Aspen	30	Pole	6	42

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Beech	Low	10 - 20 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Hemlock	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
17	6229 - Mixed lowland shrub	Nonstocked	10.4			No																																																				
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18	6229 - Mixed lowland shrub	Nonstocked	3.3			No																																																				
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19	42290 - Natural Mixed Pine	Sawtimber Medium	99.5	97	51-80	N/A	There is a small pocket of white birch and aspen in the middle of the stand - not big enough to meet the mapping standards. Stand looks like it has been thinned before judging on the quality of the pine. Stand treated via shelterwood harvest as sale #047-12-01. Completed 11/06/13. Regeneration work yet to be completed as of 01/14/2014.																																																			
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22	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	64.0	75	51-80	N/A	In the southern part of the stand the diameters are smaller and the canopy is more open. The North Country Trail runs through the southern part of the stand.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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24 6121 - Tamarack Sapling Poor 37.6 51 Unspecified N/A Not visited 2020 YOE. Stand data is from 2010.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Sapling/Pole	4		Black Spruce	Low	5 - 10 feet	Sapling
Tamarack	80	Sapling/Pole	4	51	Tamarack	Low	5 - 10 feet	Log
White Pine	10	Sapling/Pole	4		Willow spp.	Low	< 5 feet	Tall Shrub

25 4191 - Mixed Upland Deciduous with Conifer Sawtimber Poor 8.1 75 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Log/Pole	12	75	Red Maple	High	Variable	Tall Shrub
Beech	15	Log/Pole	14		Beech	High	< 5 feet	Tall Shrub
Paper Birch	10	Log/Pole	12		White Spruce	Medium	Variable	Tall Shrub
Bigtooth Aspen	25	Log/Pole	10	75	White Pine	Low	Variable	Tall Shrub
Hemlock	25	Log/Pole/XLog	16	75	Hemlock	Low	5 - 10 feet	Tall Shrub

26 6239 - Mixed Emergent Wetland Nonstocked 1.8 No

28 4137 - Aspen, Birch Poletimber Medium 127.8 39 N/A

The diameters of the trees in this stand are at the very low end of the of the pole size class. The old OI mentions that the area was heavily burned in 1982.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	6		Red Maple	High	10 - 20 feet	Sapling
Paper Birch	35	Pole/Sapling	6		Beech	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	40	Pole/Sapling	6	39	Paper Birch	High	10 - 20 feet	Sapling
Balsam Fir	5	Log/Pole	12		Balsam Fir	Medium	5 - 10 feet	Sapling
White Pine	5	Sapling/Pole	5		White Pine	Low	5 - 10 feet	Sapling
Black Cherry	5	Sapling	3		Cherry (spp.)	Low	5 - 10 feet	Sapling

29 4193 - Birch, Aspen Poletimber Medium 21.0 39 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	6		Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	40	Pole/Sapling	5	39	Paper Birch	Low	5 - 10 feet	Pole
Bigtooth Aspen	25	Pole	6	39	White Pine	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole/Sapling	5					
White Pine	5	Log/Pole	12					
Black Cherry	5	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
30	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	14.3	41	81-110	N/A																																																	
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32	500 - Water	Nonstocked	1.8			No																																																	
33	6239 - Mixed Emergent Wetland	Nonstocked	14.1			No																																																	
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34	6225 - Bog	Nonstocked	1.3			No	There are some small patches of standing water under the leatherelaf. There are some scattered pitcher plant through the site.																																																
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35	42210 - Natural Red Pine	Sawtimber Well	4.7	97	81-110	N/A	This stand was part of the Swamp Lakes Pine Sale (#003-00-01) and was completed 8/19/04. Treat this stand when stand 136 in neighboring compartment is cut Stand was not visited in 2020 YOE. Data is from 2010.																																																
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36	4319 - Mixed Upland Forest	Sawtimber Well	137.3	109	81-110	N/A	There are some very steep ridges in this stand and are untreatable with the terrain. This stand was part of the Swamp Lakes Pine Sale (#003-00-01) and was completed 8/19/04.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
37	500 - Water	Nonstocked	6.7			No						
38	6225 - Bog	Nonstocked	1.6			No	There are some small pathces of standing water under the leatherleaf. There are some scattered pitcher plant through the site.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Leatherleaf	Full		Tall Shrub	
								Black Spruce	Low		Sapling	
Tamarack	Low		Sapling									
39	6239 - Mixed Emergent Wetland	Nonstocked	3.2			No	Other species include grass pink orchid, water lily, lily pads, and blue flag iris.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Leatherleaf	High		Tall Shrub	
40	500 - Water	Nonstocked	2.3			No						
41	6239 - Mixed Emergent Wetland	Nonstocked	1.0			No	Other species in this stand include blue flag irises, lily pads, and grass-pink orchids.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Leatherleaf	High		Tall Shrub	
42	500 - Water	Nonstocked	1.2			No						
43	4319 - Mixed Upland Forest	Sawtimber Well	14.7	100	81-110	N/A	Stand was not visited in 2020 YOY. Data is from 2010.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	10	Pole/Log	8	
								White Pine	25	Log/XLog/Pole	13	100
								Red Pine	5	Log/XLog/Pole	12	100
								Red Maple	20	Pole	8	
								Paper Birch	20	Pole	7	
								Balsam Fir	10	Pole	8	
								Hemlock	10	Log/Pole	12	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low	5 - 10 feet	Sapling	
Paper Birch	Low	5 - 10 feet	Sapling									
Balsam Fir	Low	5 - 10 feet	Sapling									
Black Spruce	Low	5 - 10 feet	Sapling									
White Pine	Low	5 - 10 feet	Sapling									
44	6225 - Bog	Nonstocked	28.4			No	This stand includes the Little Two Hearted River. The river is surrounded by a bog-type. There are blue flag irises and pitcher plants scattered through the site also.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Trace		Sapling	
								Leatherleaf	Low		Tall Shrub	
								Black Spruce	Low		Sapling	
Tamarack	Low		Sapling									
45	6239 - Mixed Emergent Wetland	Nonstocked	26.9			No						
								Sub-Canopy Species	Density	Avg. Height	Size	
								Leatherleaf	Low		Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments															
46	500 - Water	Nonstocked	11.1			No																
47	4319 - Mixed Upland Forest	Sawtimber Well	18.4	100		N/A																
48	42200 - Natural White Pine	Sawtimber Well	3.0	100	51-80	N/A	Stand was not visited in 2020.															
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Canopy Species	% Cover	Size Class	DBH	Age																		
White Pine	60	Log/XLog/Pole	14	100																		
Red Pine	40	Log/XLog/Pole	12																			
49	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	15.8	61		N/A																
50	623 - Emergent Wetland	Nonstocked	2.4	0		No																