



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32068

Entry Year 2023

Acreage: 1,902

County Marquette

Management Area: Ralph Ground Moraine

Revision Date: 2021-08-03

Stand Examiner: Peter Holodnick

Legal Description:

T43N R25W Section(s) 19, 20, 21

Identified Planning Goals:

To improve the quality and diversity of State forests and wildlife through proper habitat management, while protecting the riparian values of our wetlands and waters.

Soil and topography:

Rubicon, Croswell, Kalkaska, Paquin, and Au Gres sand, Alcona loamy very fine sand, Pence fine sandy loam, Carbondale and Tawas mucks, Greenwood and Dawson soils, Emmet Escanaba complex, Croswell-Deford complex, Garlic-Fence complex. Terrain is flat to gently rolling slopes.

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

The compartment is surrounded by additional State land to the north, east and south, with corporate land to the west.

Unique Natural Features:

: Potential for osprey, eagle, and great blue heron rookery. Potential for red shouldered hawk and goshawk. Potential for moose and wolf. Potential for wood turtle in Lone Pine River. Potential for frigga fritillary, freija fritillary, and red-disked alpine in bogs. Potential for round-leaved orchis, calypso, ram's head lady's slipper, marsh grass-of-Parnassass, and limestone oak fern in Cedar Swamps. Potential for auricled tway-blade, western dock, veiny meadow-rue, and linear-leaved gentian along riparian areas. Potential for Farwell's water-milfoil and alternate-leaved water-milfoil in shallow lakes. Potential for purple clematis in dry-mesic conifer stands. Potential for Assiniboia sedge and goblin moonwort in mature northern hardwoods.

Archeological, Historical, and Cultural Features:

Old logging grades and associated logging camp sites throughout this compartment. No areas of concern.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment contains Lone Pine Creek which serves as tributary to the Little West Branch of the Escanaba River. Lone Pine Creek is designated a Type 1 trout stream less than 50' width and has a predicted mean July temperature of 63.9 °F (cold stream). 300' buffers are recommended for Lone Pine Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 068 is found within the Ralph Ground Moraine Management Area; on Ground Moraines in northern Dickinson and southern Marquette Counties. The dominant Natural Communities are mesic northern forest, poor conifer swamps, and dry mesic northern forest. Major forest cover types include Aspen, Northern Hardwoods, and Mixed Lowland Conifers. Almost every cover type and associated species can be found within the management area including several deer wintering complexes. This management area provides some of the finest grouse and woodcock hunting in the Midwest and this is a wildlife management priority that will continue. Wildlife management issues in the management area are: early successional forest conditions (associated with alder, riparian zones, or forested wetlands); mast (hard and soft); habitat fragmentation; mature forest (upland deciduous, especially aspen and mixed forest with little understory); course woody debris; and deer wintering complexes.

The following have been identified as featured species for the Ralph Ground Moraine Management Area: American woodcock, black bear, Northern goshawk, ruffed grouse, and whitetail deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and medium-textured till. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien Group subcrops below the glacial drift. This formation could be used for stone. Several gravel pits are located in this area and there may be some potential on the upland areas. abandoned iron mines are located ten miles to the north. Sections 18 and 19 are currently leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Generally very good from Co. Rd 557 and the Little West Road.

Survey Needs:

none

Recreational Facilities and Opportunities:

This area receives heavy public hunting pressure for ruffed grouse and whitetail deer.

Fire Protection:

Low to moderate wildfire potential

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**

Report 1 – Total Acres by Cover Type and Age Class

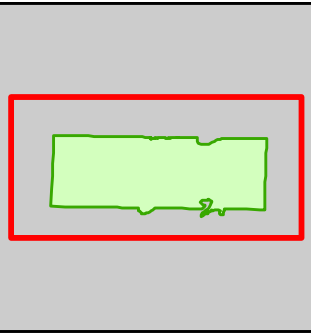


Age Class

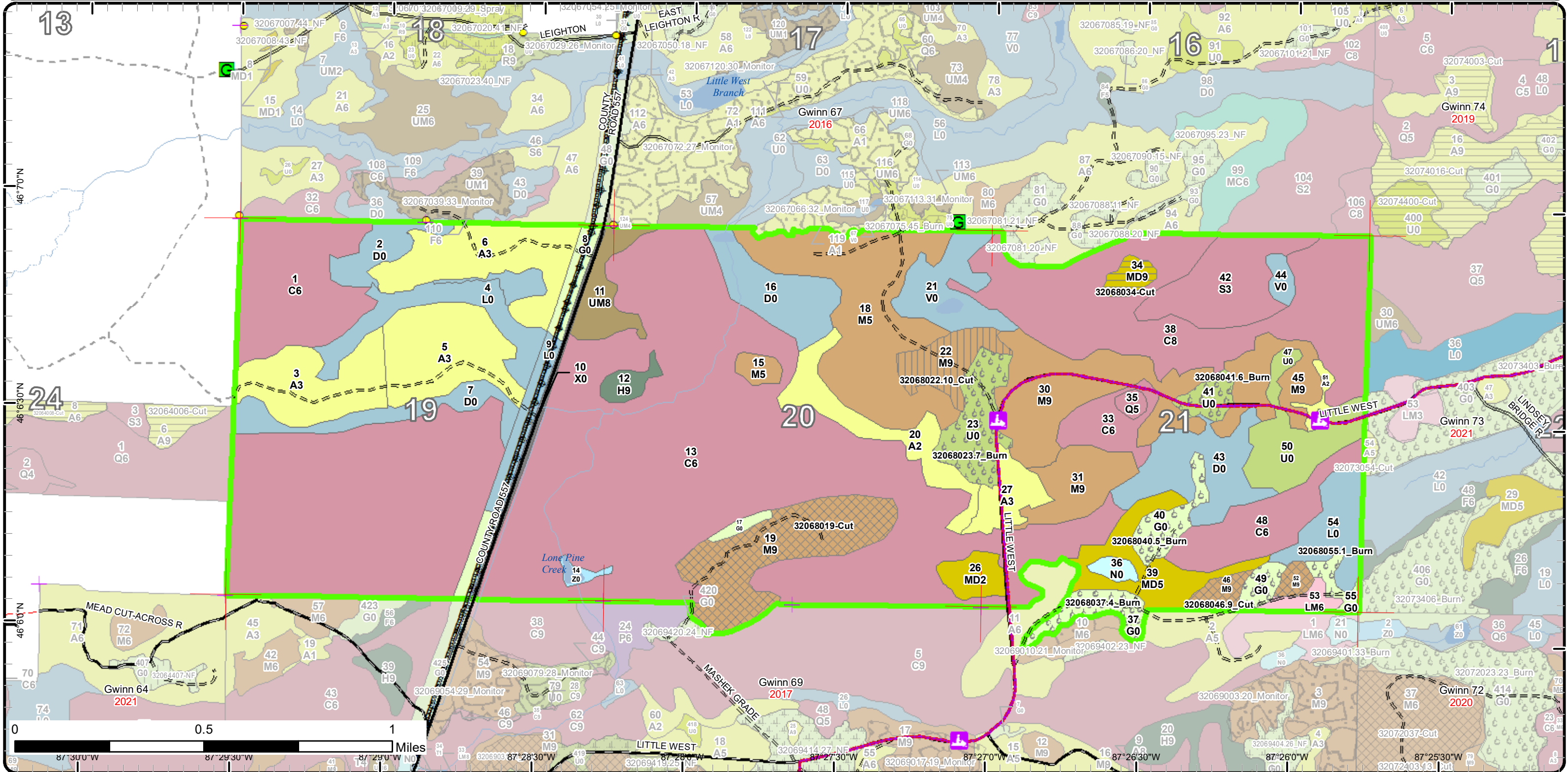
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	66	52	0	72	0	0	0	0	0	0	0	0	0	0	0	0	0	190
Bog	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Cedar	0	0	0	0	0	0	0	0	0	0	0	720	145	57	0	0	0	0	922
Hemlock	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	6
Herbaceous Openland	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	7
Lowland Shrub	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69
Lowland Spruce/Fir	0	0	0	0	0	0	42	0	0	0	0	0	0	0	0	0	0	0	42
Marsh	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	0	11	30	0	0	7	0	0	0	0	0	0	0	0	0	0	0	48
Northern Hardwood	0	0	0	0	93	0	0	0	61	50	99	0	0	0	0	0	0	0	302
Treed Bog	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116
Upland Mixed Forest	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	18
Upland Shrub	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	363	66	63	30	165	0	0	49	18	61	50	102	734	145	57	0	0	0	1901

Cover Type & Treatments Map

Compartment: 68
 T43N, R25W, Sec: 19, 20, 21
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2023
 Acres: 1902 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 8/20/2021
 Map Phase: Review

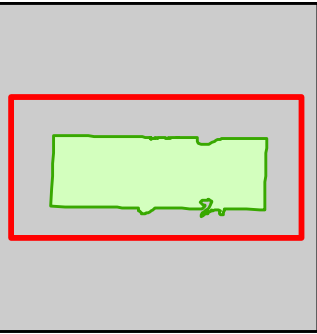


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Prescribed Burn
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

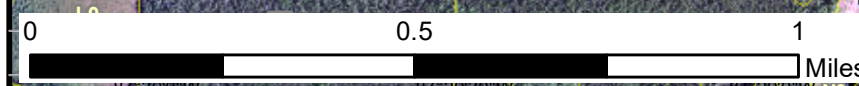
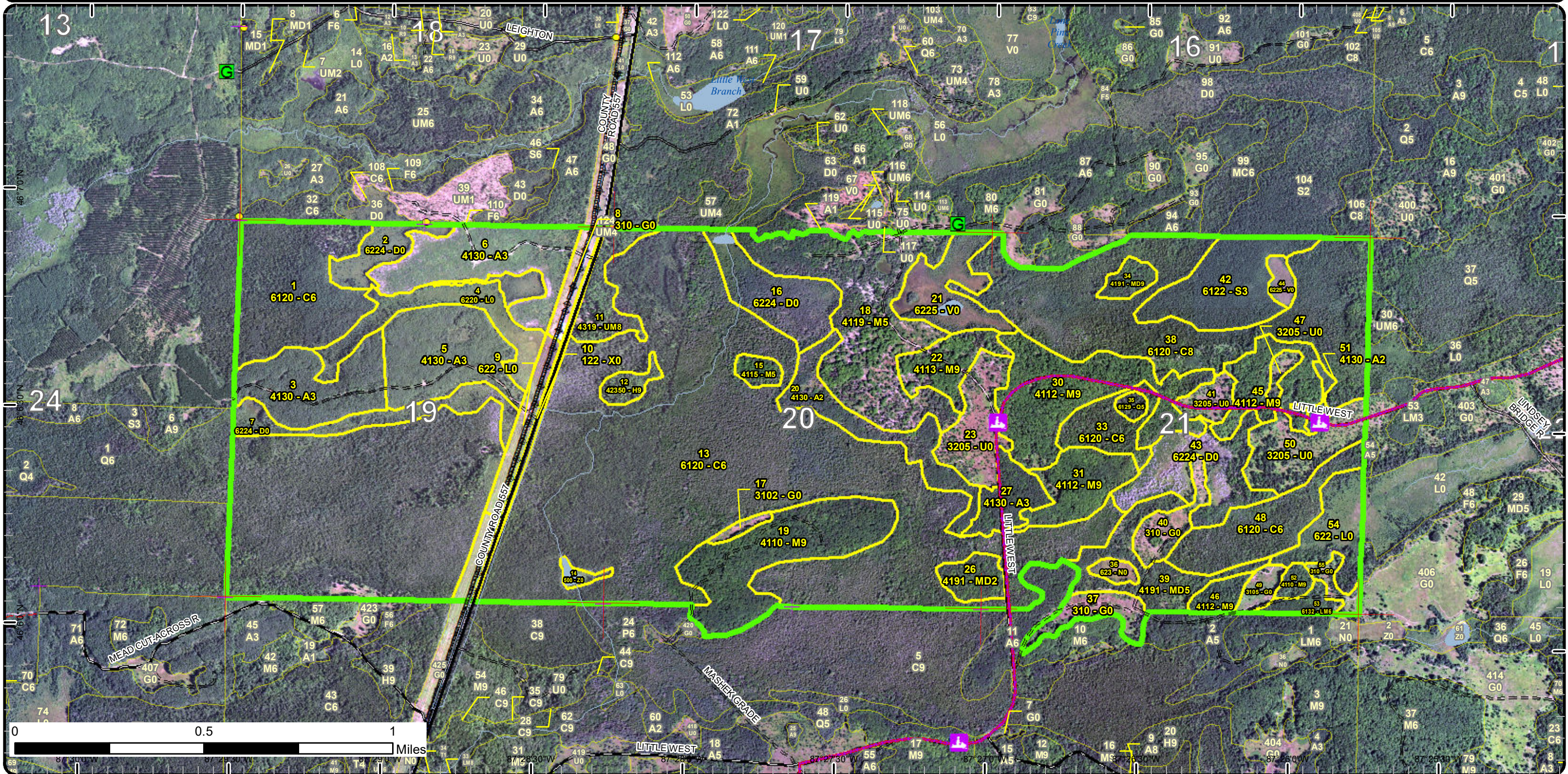


Stand Boundary Map

Compartment: 68
 T43N, R25W, Sec: 19, 20, 21
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground
 Moraine
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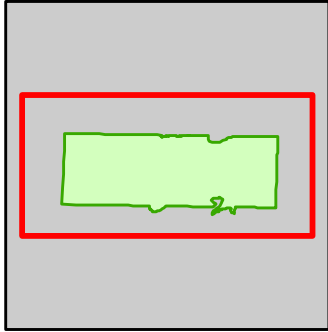


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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Stand Boundaries
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 411 - Northern Hardwood
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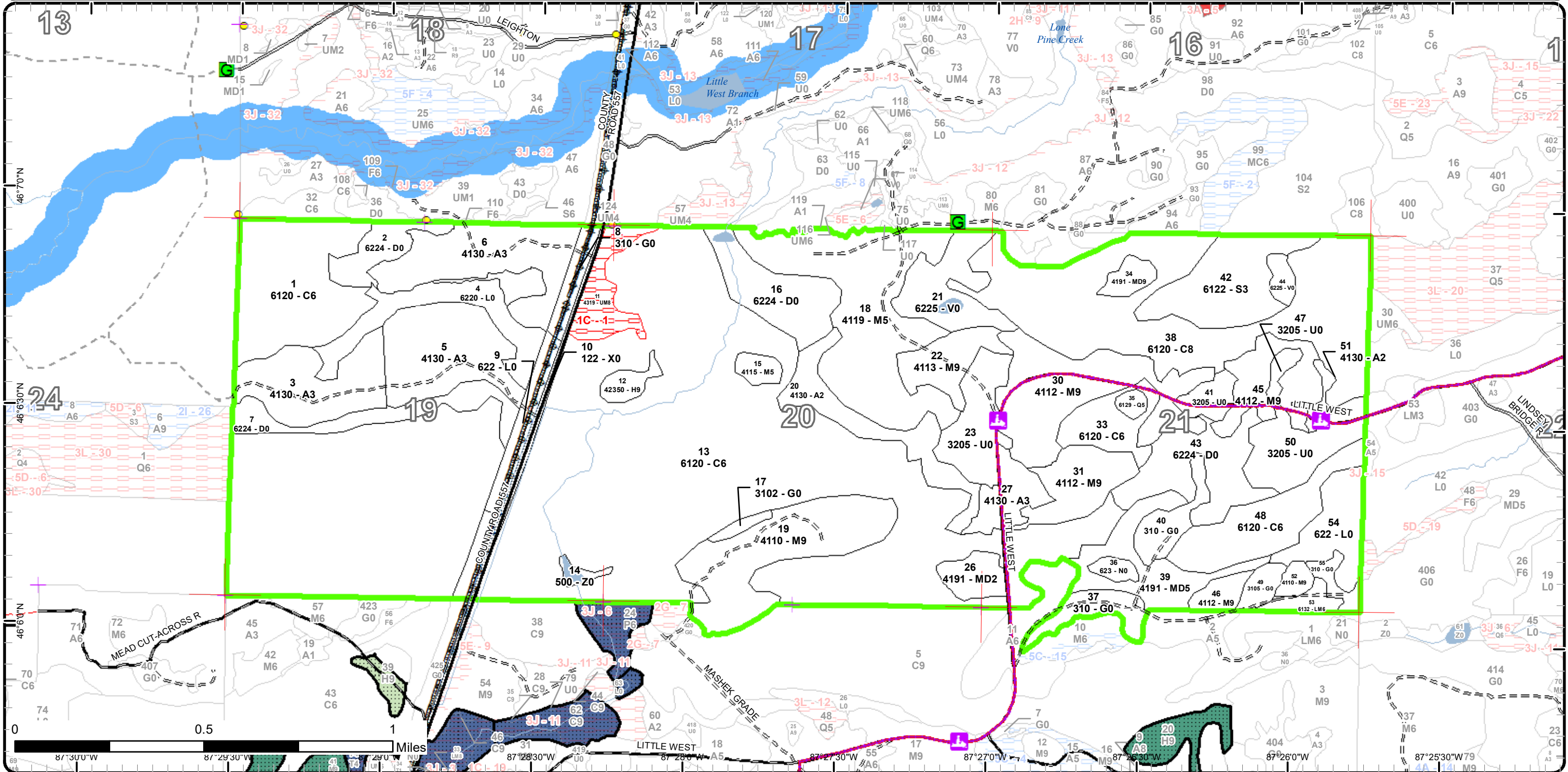


Special Conservation Areas

Compartment: 68
 T43N, R25W, Sec: 19, 20, 21
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2023
 Acres: 1902 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 8/20/2021
 Map Phase: Review



- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Unavailable
- 1C: Other dept or div proc/practices
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Spring or Seep
- Habitat Corridor
- Recreational/Scenic Value Area





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 68
Total Compartment Acres: 1,902

Commercial Harvest - 98
Harvests with Site Condition - 0
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	7	0	0	0	0	0	0	0	0	7
Northern Hardwood	0	72	0	0	20	0	0	0	0	92
Total	7	72	0	0	20	0	0	0	0	99

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	99	0	0	0	75	0	0	0	0	174
Next Step	0	0	0	0	0	0	174	0	0	174
Total	99	0	0	0	75	0	174	0	0	347



Stand Name	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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Proposed Treatments:

19	32068019-Cut	60.9	4110 - Sugar Maple Association	Sawtimber Well	105	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, Cedar, Black Cherry, and Yellow Birch</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> Any tree species currently in the overstory is acceptable</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 /2022</p>											
22	32068022.10_Cut	19.6	4113 - R.Maple, Conifer	Sawtimber Well	95	111-140	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark to between 50-60 BA. Focus your marking on poor form and deformities. Cut all Balsam Fir and Aspen dead or alive down to 2 inches. No cut Hemlock, Cedar, Black Cherry, and Yellow Birch. Leave 3-10% retention.</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> Any tree species currently in the overstory will be acceptable.</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 /2022</p>											
23	32068023.7_Burn	26.8	3205 - Mixed Upland Shrub	Nonstocked		Unspecified	Burn	Opening	31021 - Cool Season Grass		No
<p><u>Prescription</u> Work with FMD Fire Officers on burn plan.</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></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 /2022</p>											
34	32068034-Cut	6.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	62	111-140	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all but Hemlock and Cedar. No retention due to small size.</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> Any tree species currently in the overstory is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand was put up for treatment last entry but never got cut. This is a winter cut due to wet access.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
37 32068037.4_B urn	14.2	310 - Herbaceous Openland	Nonstocked		Unspec ified	Burn	Opening	31021 - Cool Season Grass		No
<u>Prescription</u> Work with FMD Fire Officers on burn plan.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable Regen:</u>										
<u>Other Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2022										
40 32068040.5_B urn	13.1	310 - Herbaceous Openland	Nonstocked		Unspec ified	Burn	Opening	31021 - Cool Season Grass		No
<u>Prescription</u> Work with FMD Fire Officers on burn plan.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable Regen:</u>										
<u>Other Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2022										
41 32068041.6_B urn	8.5	3205 - Mixed Upland Shrub	Nonstocked		Unspec ified	Burn	Opening	310 - Herbaceous Openland		No
<u>Prescription</u> Work with FMD Fire Officers on burn plan.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable Regen:</u>										
<u>Other Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2022										
46 32068046.9_C ut	7.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	105	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<u>Prescription</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, Cedar, Black Cherry, and Yellow Birch.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable Regen:</u> any tree species currently in the overstory is acceptable.										
<u>Other Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2022										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
49 32068049.3_B urn	6.5	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	Burn	Opening	31021 - Cool Season Grass		No
<u>Prescription</u> Work with FMD Fire Officers on burn plan.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u>										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2022										
52 32068052.8_C ut	4.3	4110 - Sugar Maple Association	Sawtimber Well	105	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<u>Prescription</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing										
<u>Specs:</u> diversity of overstory species and stand structure. No cut Hemlock, Cedar, Black Cherry, and Yellow Birch.										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Any tree species currently in the overstory is acceptable.										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2022										
55 32068055.1_B urn	5.9	310 - Herbaceous Openland	Nonstocked		Unspec ified	Burn	Opening	31021 - Cool Season Grass		No
<u>Prescription</u> Work with FMD Fire Officers on burn plan.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u>										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2022										

Total Treatment 173.5
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 68

Peter Holodnick: Examiner

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions	1C
190	190	0	0	Aspen	
34	34	0	0	Bog	
921	921	0	0	Cedar	
6	6	0	0	Hemlock	
59	59	0	0	Herbaceous Openland	
3	3	0	0	Lowland Conifers	
7	7	0	0	Lowland Mixed Forest	
69	69	0	0	Lowland Shrub	
42	42	0	0	Lowland Spruce/Fir	
4	4	0	0	Marsh	
48	48	0	0	Mixed Upland Deciduous	
303	303	0	0	Northern Hardwood	
116	116	0	0	Treed Bog	
18	0	0	18	Upland Mixed Forest	18
39	39	0	0	Upland Shrub	
9	9	0	0	Urban	
3	3	0	0	Water	
1,873	1,854		18	Total Forested Acres	18
	99%		1%	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	1C: Other dept or div proc/practices	18	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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	6120 - Lowland Cedar	Poletimber Well	67.8	119	81-110	N/A	Lowland cedar with associated swamp conifers.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		2	Pole/Sapling	8		Balsam Fir	
Black Spruce		10	Pole/Sapling	7		Northern White Cedar	
Northern White Cedar		80	Log/Pole	9	119	Tag Alder	
Tamarack		8	Log/Pole	9		Density	
						Avg. Height	
						Size	
2	6224 - Treed Bog	Nonstocked	15.5		Unspecified	No	black spruce bog
Sub-Canopy Species		Density	Avg. Height	Size			
Black Spruce		Low		Sapling			
3	4130 - Aspen	Sapling Well	41.4	32	Unspecified	N/A	Nice aspen sapling stand with scattered balsam fir.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		95	Sapling	4	32	Balsam Fir	
Balsam Fir		5	Sapling	4		Hazelnut (Beaked)	
						Density	
						Avg. Height	
						Size	
4	6220 - Alder/willow	Nonstocked	30.2		Unspecified	No	Tag alder and willow.
Sub-Canopy Species		Density	Avg. Height	Size			
Willow spp.		Medium		Tall Shrub			
Willow spp.		Medium		Tall Shrub			
Willow spp.		Medium		Tall Shrub			
Tag Alder		Medium		Tall Shrub			
5	4130 - Aspen	Sapling Well	48.4	16	Unspecified	N/A	A3 1" saplings. Stand cut 2003 by K.B. enterprises (kevin Gartland) permit #01-03-01.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		95	Sapling	1	16	Balsam Fir	
Balsam Fir		5	Pole/Log	1		Density	
						Avg. Height	
						Size	
6	4130 - Aspen	Sapling Well	49.5	7	Immature	N/A	T. sale #002-13 "Ice Bear Aspen" - cut March - April, 2015.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		90	Sapling	1	7	Balsam Fir	
Balsam Fir		10	Sapling/Pole	1		White Spruce	
						Hazelnut (Beaked)	
						Density	
						Avg. Height	
						Size	
7	6224 - Treed Bog	Nonstocked	29.7		Unspecified	No	1-2" black spruce bog.
Sub-Canopy Species		Density	Avg. Height	Size			
Black Spruce		Medium		Sapling			
8	310 - Herbaceous Openland	Nonstocked	16.2		Unspecified	Managed Opening	powerline R.O.W.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
9	622 - Lowland Shrub	Nonstocked	14.0		Unspecified	No	Powerline R.O.W.																																									
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10	122 - Road/Parking Lot	Nonstocked	9.4		Unspecified	Managed Opening	Co. Rd 557.																																									
11	4319 - Mixed Upland Forest	Sawtimber Medium	18.3	75	51-80	N/A																																										
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12	42350 - Upland Hemlock	Sawtimber Well	6.5	114	81-110	N/A	"Island" of large hemlock with red maple, yellow birch, balsam fir, and large white pine growing on a small upland hump in a cedar stand. Good fir regeneration in gaps under the red maple.																																									
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13	6120 - Lowland Cedar	Poletimber Well	652.0	119	Unspecified	N/A																																										
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14	500 - Water	Nonstocked	3.0		Unspecified	No																																										
15	4115 - Y.Birch, Hemlock NH	Poletimber Medium	5.3	95	1-50	N/A	Small island of poorly stocked red maple poles with upland cedar, hemlock. Thick understory of 5-15' red maple saplings.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
16	6224 - Treed Bog	Nonstocked	32.3		Unspecified	No	Black spruce bog.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Labrador Tea	Full		Tall Shrub	
								Black Spruce	Low		Sapling	
17	3102 - Grass	Nonstocked	3.1		Unspecified	Managed Opening	Wildlife created grass opening.					
18	4119 - Mixed Northern Hardwoods	Poletimber Medium	93.3	32	Immature	N/A	Large natural opening with cherry, white pine, black spruce, hemlock pockets, aspen, and sugar maple all of it individually or in clumps with some of everything everywhere.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Cherry	43	Pole/Sapling	5	32
								Balsam Fir	10	Pole/Sapling	6	
								Red Maple	20	Pole/Sapling	6	
								Sugar Maple	5	Pole/Sapling	5	
								White Pine	5	Pole/Sapling	5	
								Hemlock	2	Log/Pole	10	
								Black Spruce	5	Pole/Sapling	6	
								Quaking Aspen	10	Sapling/Pole	4	
19	4110 - Sugar Maple Association	Sawtimber Well	60.9	105	111-140	N/A	Good quality sugar maple stand with a few scattered basswood and yellow birch. 30 ba sm sawtimber, 70 ba pulp. Last treated in 2006 by Minerick under contract #02-03-01. No seedling regeneration from the last cutting, a few stump sprouts but they have been heavily browsed. Stand was underplanted May 2007 with approximately 7920 hemlock, 5500 white pine, and 3500 white spruce seedlings. I did not see any survival of these seedlings. 2015-still heavy deer impact.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	86	Log/Pole	11	105
								Red Maple	10	Log/Pole	11	
								Hemlock	2	Log/Pole	16	
								Black Cherry	2	Pole/Sapling	6	
20	4130 - Aspen	Sapling Medium	30.8	34	Unspecified	N/A	Narrow strip of aspen and balsam fir saplings transitioning to poles. Scattered wp sawtimber. Borders a large grass opening.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	85	Sapling	4	34
								Balsam Fir	10	Sapling	4	34
								Red Maple	2	Pole/Sapling	6	
								Black Spruce	2	Pole/Sapling	5	
Sugar Maple	1	Sapling/Pole	5									
21	6225 - Bog	Nonstocked	29.1		Unspecified	No	Bog					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
22	4113 - R.Maple, Conifer	Sawtimber Well	19.6	95	111-140	N/A	Fair to poor quality red maple pole stand. Fir removed in 1986. No hardwood regeneration evident in the understory.																																										
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23	3205 - Mixed Upland Shrub	Nonstocked	26.8		Unspecified	No	Large opening with cherry and other hardwood shrubs.																																										
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26	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	11.2	10	1-50	N/A	Former fir/red maple stand, most of the fir is dead and down. Also starting to lose the white birch. Red maple is of poor quality. Stand contains pockets of large hemlock with a few scattered yellow birch and white pine. Average stand ba is 80. The stand is actually 2 upland islands separated by a narrow strip of lowland cedar. Area of interest will be the eastern "island" that abuts the Little West Rd.																																										
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30	4112 - Maple, Beech, Cherry Association	Sawtimber Well	60.9	85	81-110	N/A	4 stick soft maple with occasional sugar maple and cherry. FTP # W32-679. 25,920 containerized hemlock seedlings and 1500 bare-root white pine seedlings were planted in stands 63 and 34 during May, 2007.																																										
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31	4112 - Maple, Beech, Cherry Association	Sawtimber Well	25.2	98	51-80	N/A	Mixed sugar maple and red maple stand with cherry and yellow birch. There is one small area of browsed sugar maple regeneration from the treatment in 1993 while the remainder of the stand has none. Occasional super-canopy white spruce. stand was harvested in 2015.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
33	6120 - Lowland Cedar	Poletimber Well	18.6	130	81-110	N/A	Cedar pole stand with associated swamp conifers over tag alder. Former POG nomination.																																						
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34	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	6.6	62	111-140	N/A	Stand consists of an upland island of aspen/birch/fir surrounded by lowland cedar.																																						
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35	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	3.1	100	51-80	N/A	Bog like tamarack and white pine stand with black spruce. Very wet.																																						
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36	623 - Emergent Wetland	Nonstocked	4.0		Unspecified	No	Small marsh area.																																						
37	310 - Herbaceous Openland	Nonstocked	14.3		Unspecified	Managed Opening	Part of a larger natural grass opening with scattered upland brush.																																						
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38	6120 - Lowland Cedar	Sawtimber Medium	145.0	125	Unspecified	N/A	Short, variably stocked cedar with tamarack, black spruce, scattered lowland hardwoods over tag alder. Deer yard.																																						
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39	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	30.4	28	Immature	N/A	Cherry brush, scattered aspen clones over grass.																																				
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41	3205 - Mixed Upland Shrub	Nonstocked	8.5		Unspecified	No	Cherry brush, scattered aspen clones over grass.																																				
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42	6122 - Black Spruce	Sapling Well	41.9	61	Unspecified	N/A	Former POG nomination																																				
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43	6224 - Treed Bog	Nonstocked	38.1		Unspecified	No	Old beaver flooding with dead standing timber.																																				
44	6225 - Bog	Nonstocked	4.8		Unspecified	No	Former P.O.G nomination																																				
45	4112 - Maple, Beech, Cherry Association	Sawtimber Well	26.2	105	81-110	N/A	Fair red maple poles and sawtimber over balsam fir saplings. Fairly decent red maple stump sprouting from the harvest in 2004-2006 by Sheski. FTP # W32-679. 25,920 containerized hemlock seedlings and 1500 bare-root white pine seedlings were planted in stands 63 and 9 during May, 2007. I did not see evidence of any planted seedling survival.																																				
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47	3205 - Mixed Upland Shrub	Nonstocked	4.1		Unspecified	No	Small opening surrounded by hardwoods.																																
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48	6120 - Lowland Cedar	Poletimber Well	38.0	130	81-110	N/A																																	
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49	3105 - Mixed Upland Herbaceous	Nonstocked	6.5		Unspecified	No	Mixed small shrubs and grass.																																
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50	3205 - Mixed Upland Shrub	Nonstocked	29.4		Unspecified	No	Cherry brush, scattered aspen clones over grass.																																
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51	4130 - Aspen	Sapling Medium	3.6	15	Unspecified	N/A	A3 from last cutting by Sheski under contract # 003-03-01.																																
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52	4110 - Sugar Maple Association	Sawtimber Well	4.3	105	111-140	N/A	Fair quality sugar maple stand with a few red maple. Light regeneration from the the cutting in the 80's. Thinned 2004 permit #4-03-01 LaFleur Logging. Knee high regen from the last cutting is being heavily browsed.																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
53	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	6.8	115	Unspecified	N/A	E5Q5 Black ash with cedar. Very wet.																												
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54	622 - Lowland Shrub	Nonstocked	24.8		Unspecified	No	Lowland brush along the drainage.																												
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55	310 - Herbaceous Openland	Nonstocked	5.9		Unspecified	No																													
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