



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72245

Entry Year 2024

Acreage: 1,726

County Crawford

Management Area: Camp Grayling

Stand Examiner: Dakota Ewald

Legal Description:

T28NR3W, Sections 1, 2 and 3
Maple Forest Township

Identified Planning Goals:

To provide an area that allows for National Guard training while maintaining forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment.

Soil and topography:

Soil types within the compartment consist of some Montcalm and Blue Lake Loamy sands, Rubicon-Graycalm Complex, Kalkaska sand, Graycalm-Grayling Complex and Croswell sands on the upland areas. On the lowland areas, soils consist of Tawas-Leafriver Complex, Dawson and Loxley mucks.

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

Ownership within the compartment consists mostly of state and military board lands with some private residences around Section One Lake and Guthrie Lake. Section 1 and a portion of section 2 are military board land. The National Guard Air to Ground Range is located in section 1. The remainder of section 2 is leased to the National Guard under L-1479 allowing for usage by the military during their encampment with no permanent buildings or improvements to be erected. Section 3 has a private 80 acre parcel located within it and the state lands are leased to the National Guard under a 10 year management agreement to allow for camping and maneuvers, but does not allow use of heavy equipment or high intensity live ammunition firing. There are several residences surrounding the compartment on the west side and north side including those around Section One Lake and Guthrie Lake.

Unique Natural Features:

A unique and natural feature within the compartment is the Hill's Thistle.

Archeological, Historical, and Cultural Features:

The east part of the compartment contains a small portion of the National Guard Air to Ground Range.

Special Management Designations or Considerations:

Hill's Thistle is located within the compartment and needs special management considerations. Besides the small portion of the National Guard Air to Ground Range in the east part of the compartment, there are several military firing points along White Road, that runs north and south between section 2 and 3 of the compartment. These designated sites need special management considerations to meet the needs of the military. Two other special considerations within the compartment that need to be considered are the antrim gas well sites and visual management of stands along Sherman Road and around Section One and Guthrie Lakes.

Watershed and Fisheries Considerations:

The compartment contains Marsh Lake; a large portion of Section One Lake, and a small portion of Guthrie Lake. Both Guthrie Lake and Section One Lake have access sites.

Wildlife Habitat Considerations:

White-tailed Deer, Ruffed Grouse, Black Bear and Wild Turkey. Maintain Aspen types and improve the age distribution of these types within the compartment.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. Glacial drift thickness varies between 600 and 1,000 feet. There is elevation relief of approximately 150 feet in the compartment. Beneath the glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale. The nearest gravel pit is located two miles to the west. Gravel potential is thought to be good in the upland areas. Part of the compartment is the State Military Reservation. Two-thirds of the compartment is leased and has been developed for

Antrim Shale gas production. Section 3 contains several Antrim well sites and two processing facilities.

Vehicle Access:

Sherman Road runs north and south along the west side of compartment. Krause Road runs east and west along the north side of compartment and Calker Road runs east and west along the south side of compartment. Several two-track trails branch off these roads into the compartment. White Road runs north and south between sections 2 and 3. Briggs Road runs along the west side of Section One Lake and a Tank trail runs along the fenced Air to Ground Range in Section 1. Roads leading to antrim well sites in section 3 are gated but the oil companies are not keeping gates closed and locked. All new roads constructed for timber sales are to be closed upon completion of the sale. No other trails have been identified for closure. Most trails appear to be actively used by the military.

Survey Needs:

None.

Recreational Facilities and Opportunities:

Recreational facilities within the compartment consist of a developed boating access site on the south end of Guthrie Lake that is managed by Parks and Recreation Division. An undeveloped access site is located on the southwest side of Section One Lake. Recreation opportunities include camping, boating, fishing and hunting. Note: There is heavy dispersed camping around section one lake. There is also a lot of illegal ORV trails and RDR's in this area as well.

Fire Protection:

The east side of the compartment is somewhat susceptible to fires that escape from the National Guard Air to Ground Range. However, forest cover types within the compartment are less likely to cause any major fire problems or suppression efforts. Access to and within the compartment for fire equipment is not a problem and lakes within the compartment provide a good source of water supply.

Additional Compartment Information:

None.

The following reports from the Inventory are attached:

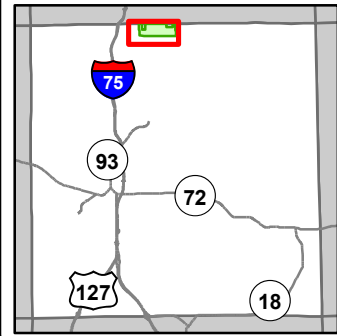
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

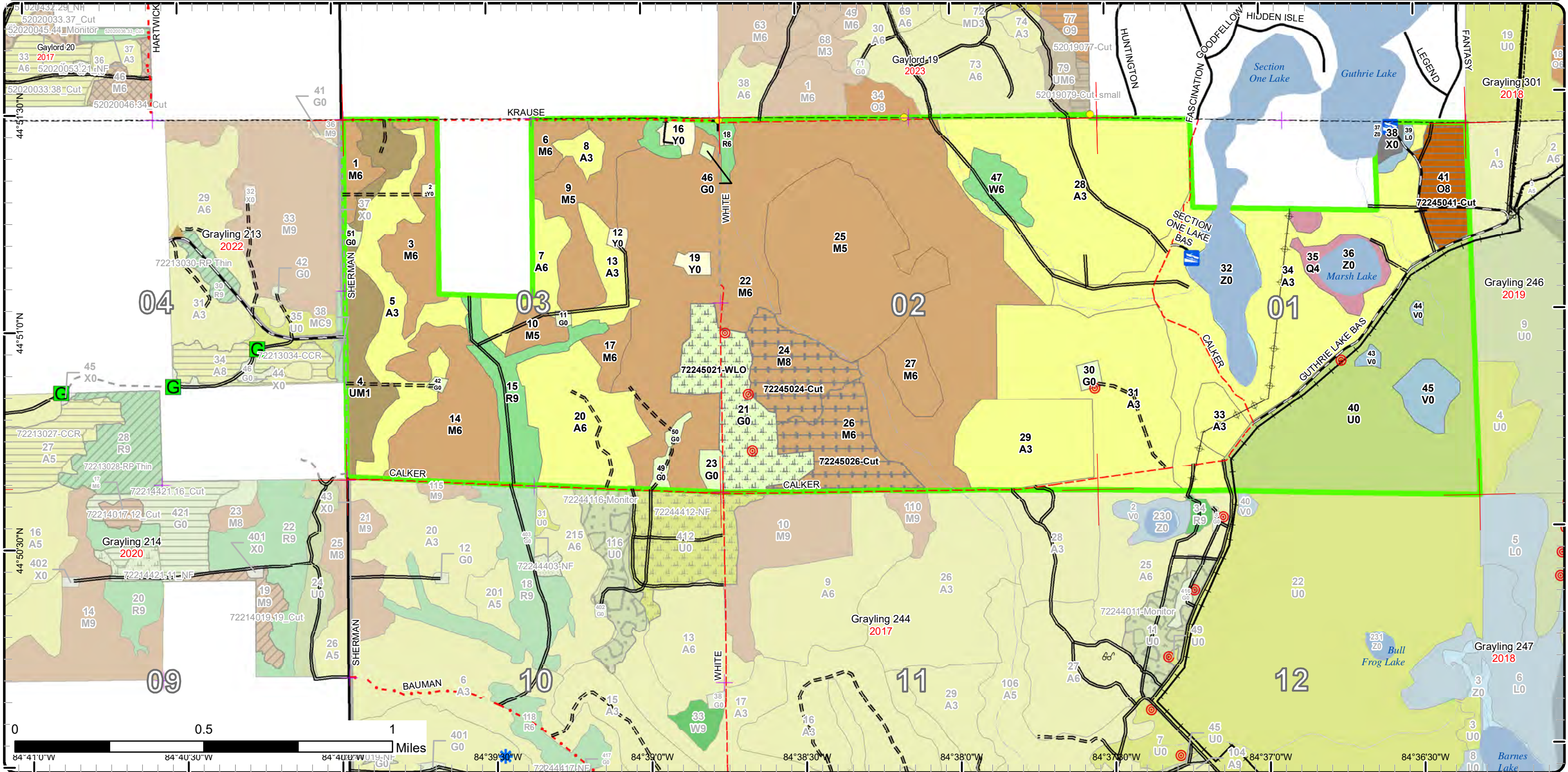
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 245
 T28N, R03W, Sec. 01-03
 County: Crawford
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2024
 Acres: 1725.9 GIS Calculated
 Examiner: Dakota Ewald
 Map Revised: 12/27/2022
 Map Phase: Post-Review

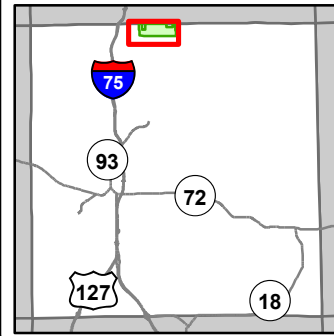


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Berms
- G Gate
- B Boating Access Site
- Intermittent Stream
- Lake/Pond
- Lakes and Rivers
- Pipeline
- Powerline
- Fence
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand/Soil
- X Camp Grayling Observation Point
- Camp Grayling Firing Point
- X Camp Grayling Gates
- + Camp Grayling Fence
- Camp Grayling Range Area

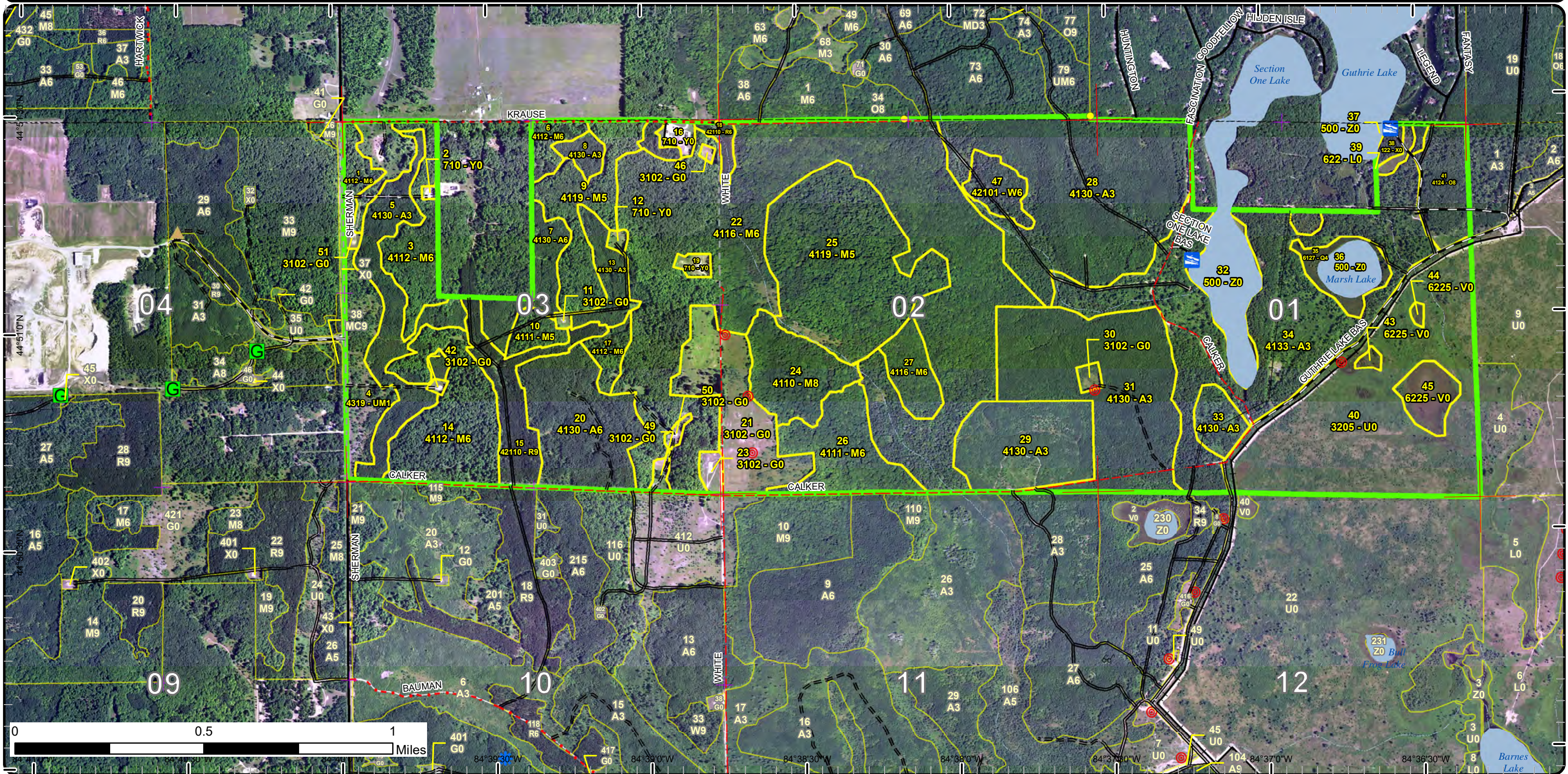


Stand Boundary Map

Compartment: 245
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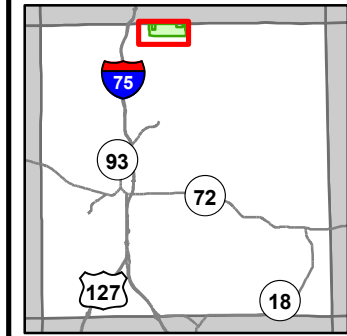


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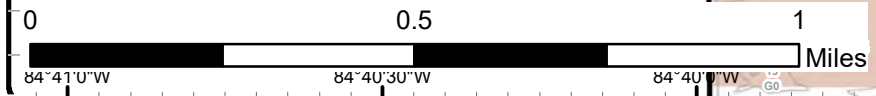
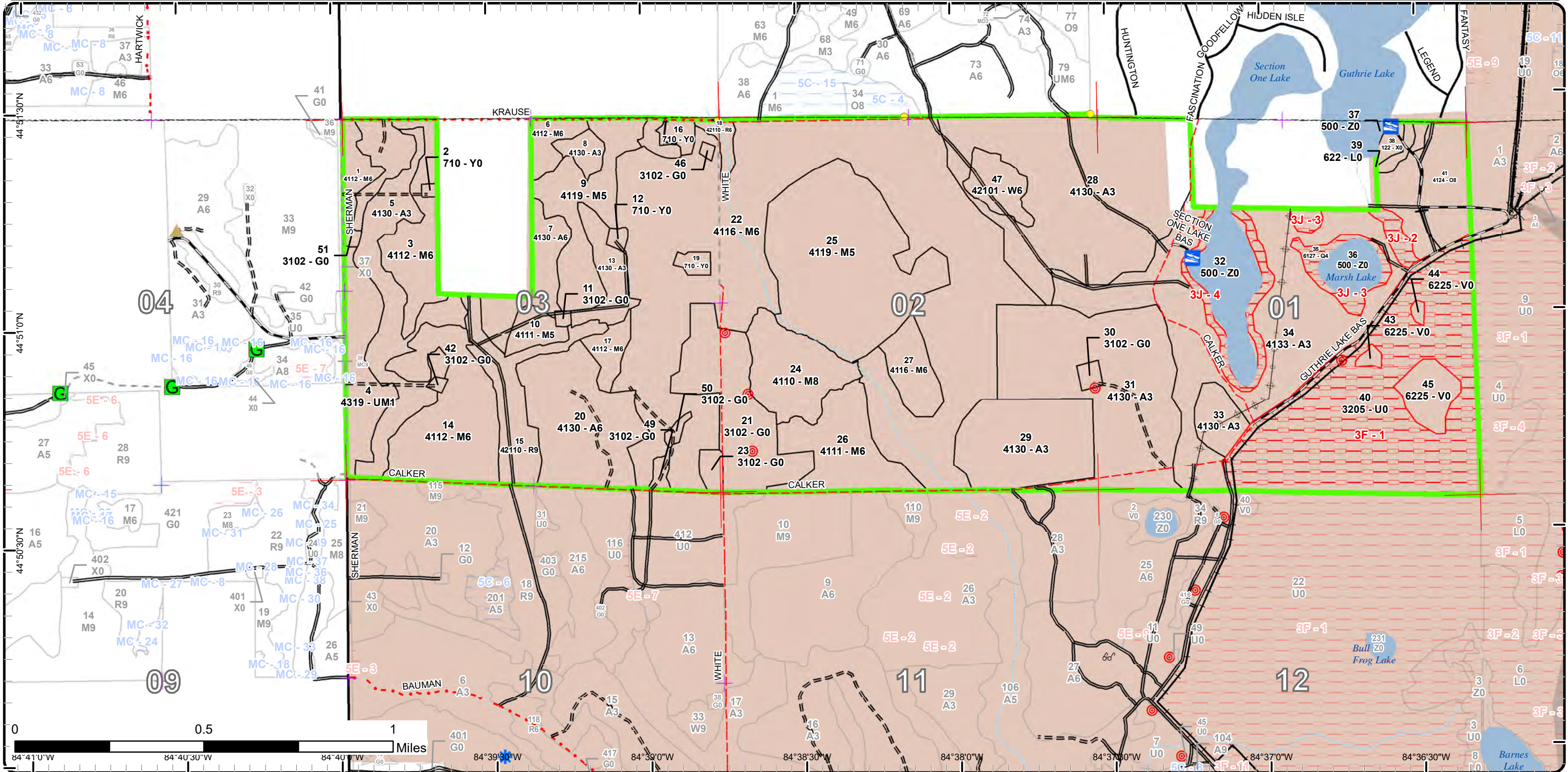


Special Conservation Areas

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- Compartment Boundary
- Unavailable
- 3F: Military easement / lease
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Research, Development, and Military Lands
- ⊙ Camp Grayling Observation Point
- ⊙ Camp Grayling Firing Point
- ✕ Camp Grayling Gates
- + Camp Grayling Fence
- Camp Grayling Range Area



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	0	217	65	338	0	0	0	0	0	0	0	0	0	0	0	0	0	620
Bog	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Herbaceous Openland	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Lowland Conifers	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	16
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Northern Hardwood	0	0	0	0	0	0	0	91	542	0	39	0	0	0	0	0	0	0	671
Oak	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	25
Red Pine	0	0	0	0	0	9	0	31	0	0	0	0	0	0	0	0	0	0	40
Sand, Soil	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	0	0	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	43
Upland Shrub	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
White Pine	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14
Total	298	0	217	65	338	52	0	47	91	567	14	39	0	0	0	0	0	0	1727



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 245
Total Compartment Acres: 1,726

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
Northern Hardwood	0	0	0	0	0	73	0	0	0	73
Oak	25	0	0	0	0	0	0	0	0	25
Total	25	0	0	0	0	73	0	0	0	98

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	98	0	0	0	0	0	0	51	0	149
Next Step	0	0	0	0	0	25	0	0	0	25
Total	98	0	0	0	0	25	0	51	0	174



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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Approved Treatments:

21	72245021-WLO	50.7	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Specs: Approved prescription specifications for the 10-year entry window that may be carried out under this FTP include: Manage for a shortgrass prairie. Periodic opening maintenance may include disking, fertilizing, seed planting, tree and shrub planting, mowing, brushing, burning, tree pruning, and herbicide application. Protect the apple trees. Protect and promote the MNFI-recorded rare plant species.

Next Step Treatments:

Acceptable Regen:

Other Comment: Treatment through FTP W72-813 was approved by variance on 12-19-2016. Wildlife Habitat Grant money was received for this work, and the National Wild Turkey Federation and Camp Grayling are partners in the project.

Site Condition:

Proposed Start Date: 10/1 /2020

24	72245024-Cut	34.1	4110 - Sugar Maple Association	Sawtimber Medium	86	1-50	Harvest	Overstory Removal	4112 - Maple, Beech, Cherry Association	Two-Aged	No
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Prescription Specs: Overstory removal with retention. Focus retention around wildlife opening in stand 21. Protect all advanced sugar maple regen. Scatter tops to protect regen. Add military specs.

Next Step Treatments:

Acceptable Regen: Well-stocked stand dominated by Sugar Maple with a mix of red maple, beech, basswood and aspen.

Other Comment: Request chipping exemption from the military.

Site Condition:

Proposed Start Date: 10/1 /2023

26	72245026-Cut	38.5	4111 - S.Maple, Hard Mast Association	Poletimber Well	100	81-110	Harvest	Overstory Removal	4112 - Maple, Beech, Cherry Association	Even-Aged	No
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Prescription Specs: Overstory removal with retention. Focus retention around wildlife opening in stand 21. Protect all advanced sugar maple regen. Scatter tops to protect regen. Add military specs.

Next Step Treatments:

Acceptable Regen: Well-stocked stand dominated by Sugar Maple with a mix of red maple, beech, basswood and aspen.

Other Comment: Request chipping exemption from the military.

Site Condition:

Proposed Start Date: 10/1 /2023



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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
41 72245041-Cut	25.2	4124 - Red with White Oak	Sawtimber Medium	85	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Uneven-Aged	No
<p><u>Prescription</u> Clear-cut with retention. Cut all merchantable stems. Leave all White Oak greater than 12". Protect any advanced Oak regen where present.</p> <p><u>Specs:</u> Focus retention along private line at North end of stand. Scatter tops to protect regen. Add military specs. Add Oak wilt specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mixed Oak, Red Maple, and Aspen that meet minimum stocking requirements.</p> <p><u>Other Comment:</u> Request chipping exemption from the military. Guthrie Lake HOA would like to be contacted when this stand is being set up (contact info in draft treatment notes). Also, take special care to protect road West of the stand as it is the boating access route to Guthrie Lake launch.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 148.5

Report 4 – Site Conditions

Grayling Mgt. Unit
Dakota Ewald : Examiner

Compartment: 245
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	3F	3J
		With Condition	Not Available			
621	601	0	20	Aspen		20
17	17	0	0	Bog		
66	66	0	0	Herbaceous Openland		
16	0	0	16	Lowland Conifers		16
3	3	0	0	Lowland Shrub		
671	671	0	0	Northern Hardwood		
25	25	0	0	Oak		
39	39	0	0	Red Pine		
10	10	0	0	Sand, Soil		
43	43	0	0	Upland Mixed Forest		
158	0	0	158	Upland Shrub	158	
4	4	0	0	Urban		
40	40	0	0	Water		
14	14	0	0	White Pine		
1,726	1,531		194	Total Forested Acres	158	36
	89%		11%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		3F: Military easement / lease	158	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Fenced Range 40								
2	Unavailable		3J: Water quality / BMPs (stream, river, or lake)	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Grayling Mgt. Unit
Dakota Ewald : Examiner

Compartment: 245
Year of Entry: 2024

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	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	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
1	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.3	70	51-80	N/A	Stand was thinned down to 80 ba in 2006 as a part of the sale Comp 245 Mix 72-067-04.																																																		
<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>Red Maple</td> <td>25</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>48</td> <td>Pole/Log</td> <td>9</td> <td>70</td> </tr> <tr> <td>Basswood</td> <td>5</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Beech</td> <td>20</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>2</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	25	Pole/Log	9		Sugar Maple	48	Pole/Log	9	70	Basswood	5	Pole/Log	9		Beech	20	Pole/Log	9		Yellow Birch	2	Pole/Log	9		<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>Beech</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Hemlock</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	High	5 - 10 feet	Sapling	Ironwood	Low	10 - 20 feet	Sapling	Red Maple	Medium	5 - 10 feet	Sapling	Hemlock	Trace	5 - 10 feet	Sapling	Black Cherry	Medium	5 - 10 feet	Sapling
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2	710 - Sand, Soil	Nonstocked	0.9				Natural gas/well site.																																																		
3	4112 - Maple, Beech, Cherry Association	Poletimber Well	28.3	85	81-110	N/A	Decent quality mixed hardwood stand consisting mainly of sugar maple, red maple, and beech. There are also pockets of lower quality with split stems and some mortality, especially among aspen.																																																		
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4	4319 - Mixed Upland Forest	Sapling Poor	43.0	45	1-50	N/A	Stand is fairly open with alternating patches of saplings and openings. There are some pole sized trees but saplings are dominant throughout.																																																		
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5	4130 - Aspen	Sapling Well	50.0	27	Immature	N/A	Dense and healthy looking stand of young Aspen. Stand was harvested as a part of the sale Strawberry Aspen in 1995.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
6	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.3	80	51-80	N/A	Decent quality Hardwood stand dominated by sugar maple. Understory is heavy to beech. There is a small inclusion of planted red pine in the eastern part of the stand. Thinned to approx 70 BA in 2001.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		76	Pole	5	80	Beech		High	5 - 10 feet	Sapling
Red Maple		10	Pole	5		Paper Birch		Trace	5 - 10 feet	Sapling
Red Pine		4	Log/Pole	10		Yellow Birch		Trace	5 - 10 feet	Sapling
Bigtooth Aspen		10	Pole	5		Black Cherry		Medium	5 - 10 feet	Sapling
						Sugar Maple	Low	5 - 10 feet	Sapling	
7	4130 - Aspen	Poletimber Well	21.0	34	51-80	N/A	Good young stand of Aspen that is putting on good growth. There is a decent understory dominated by sugar maple.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Ironwood		10	Sapling	1		Sugar Maple		High	5 - 10 feet	Sapling
Red Maple		10	Sapling	1		Beech		Medium	5 - 10 feet	Sapling
Quaking Aspen		80	Pole/Sapling	5	34	Black Cherry		Low	5 - 10 feet	Sapling
						Red Maple		Medium	5 - 10 feet	Sapling
8	4130 - Aspen	Sapling Well	6.2	30	1-50	N/A	Young aspen stand that is starting to come into the low end of the pole class. Was cut in 1995.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		100	Sapling/Pole	3	30	Sugar Maple		High	5 - 10 feet	Sapling
						Red Maple		Low	5 - 10 feet	Sapling
						Black Cherry		Medium	10 - 20 feet	Sapling
						Beech		Trace	5 - 10 feet	Sapling
9	4119 - Mixed Northern Hardwoods	Poletimber Medium	38.8	80	81-110	N/A	Pole to log sized hardwood stand dominated by sugar maple. Stand is putting on good growth and has a BA around 80.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		72	Pole/Log	8	80	Beech		High	5 - 10 feet	Sapling
Quaking Aspen		18	Log	10		Ironwood		Low	10 - 20 feet	Sapling
Basswood		5	Log	10		Sugar Maple		Low	5 - 10 feet	Sapling
Red Maple		5	Sapling/Pole	1		Black Cherry		Medium	5 - 10 feet	Sapling
10	4111 - S.Maple, Hard Mast Association	Poletimber Medium	8.5	85	51-80	N/A	Decent quality hardwood stand dominated by sugar maple. Mostly split stems with the subcanopy heavy to beech.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Basswood		2	Log/Pole	10		Beech		Medium	5 - 10 feet	Sapling
Sugar Maple		58	Pole/Log	8	85	Black Cherry		Low	5 - 10 feet	Sapling
Quaking Aspen		20	Log	10		Sugar Maple		Trace	5 - 10 feet	Sapling
Beech		20	Pole/Log	8		Ironwood		Trace	5 - 10 feet	Sapling
11	3102 - Grass	Nonstocked	1.0	2021						
12	710 - Sand, Soil	Nonstocked	1.7			No				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
13	4130 - Aspen	Sapling Well	15.4	27	Immature	N/A	Healthy young Aspen stand with a heavy understory of sugar maple. The stand was harvested as a part of the sale Strawberry Aspen in 1995.																																																		
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14	4112 - Maple, Beech, Cherry Association	Poletimber Well	56.7	70	81-110	N/A	A mixed maple stand with lots of split stems. The East side of the stand has rolling terrain.																																																		
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15	42110 - Planted Red Pine	Sawtimber Well	30.6	62	81-110	N/A	Good looking RP plantation that was thinned in 2019. There are some areas of lower quality with canopy mortality and split stems. The understory is dominated by beech and red maple, with lower amounts of sugar maple, cherry, and oak. Old comment: RP plantation was row-thinned in 1995 (#068-94), with the amount of damage to residual noted as being just within the contract's limits. Was free-thinned in 2019 (#629-14), with additional timber marked & tallied for operability during tsale admin due to a combination of the tight row spacing and side-slopes. Dead trees were also painted during that re-marking so that they could be cut out of the way without concern by the processor. During the initial cutting along the east side of the wellsite road off Caulker, the first four third-rows were opened up marginally, which involved a lot of marking without providing decent room. Then tried opening up every 6th row to at least 14' clearance. That worked better and was carried across the rest of the sale. The plantation had areas with poor initial stocking that needed little additional marking for operability. Some of that poor stocking was due to seedling establishment failure, and some due to canopy mortality. Did not note HRD conks in those mortality pockets.																																																		
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19	710 - Sand, Soil	Nonstocked	3.2				Well site.																																																																			
20	4130 - Aspen	Poletimber Well	57.7	37	81-110	N/A	Pole sized Aspen stand with a good component of red and sugar maple in the subcanopy. The stand was cut in 1985 as a part of the sale Block 353.																																																																			
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21	3102 - Grass	Nonstocked	50.7			No	Large open area with some scattered pine and cherry.																																																																			
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22	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	319.9	83	81-110	N/A	Decent quality Hardwood stand that is pretty large but mostly consistent composition. There are a few pockets of Aspen scattered throughout the stand. Sugar maple is dominant but there are a few areas that are heavier to red maple.																																																																			
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23	3102 - Grass	Nonstocked	4.1				Well site.																																																																			



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24	4110 - Sugar Maple Association	Sawtimber Medium	34.1	86	1-50	N/A	Stand has nice log class sugar maple and some beech that was left from previous cut. There is high stocking of 15 to 20 foot sugar maple in the subcanopy. Beech is coming back at high stocking levels and is about 5 to 10 feet high.																																																								
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25	4119 - Mixed Northern Hardwoods	Poletimber Medium	102.8	85	81-110	N/A	sugar/red maple stand with some large canopy oak. was thinned. not much regen except for beech.																																																								
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26	4111 - S.Maple, Hard Mast Association	Poletimber Well	38.5	100	81-110	N/A	Hardwood stand with the dominant sugar maple being around 100 years old. The subcanopy has high stocking of sugar maple that is around 20 feet tall.																																																								
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27	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	16.4	74	51-80	N/A	Large over mature Aspen in the canopy has a high mortality rate. There is also a large component of sugar maple and some red maple and beech in the pole sized class. At this point there is little monetary value left in the Aspen, so the stand should probably be left to allow the maple to release as the Aspen dies out.																																																								
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28	4130 - Aspen	Sapling Well	136.7	37	1-50	N/A	Young aspen stand with a decent white pine component that is mainly focused in denser pockets . There are also some legacy white pine scattered throughout the stand.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
29	4130 - Aspen	Sapling Well	50.7	18	Immature	N/A	Nice young Aspen stand with a small component of red maple. Stand was cut in 2004 as a part of the sale Calker Road Aspen Oak.																																			
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30	3102 - Grass	Nonstocked	2.5			No	Open grassy area that is a military firing point for the air to ground range.																																			
31	4130 - Aspen	Sapling Well	104.8	38	1-50	N/A	Nice young Aspen stand that is approaching the pole class, but is primarily sapling sized. Stand was cut in 1984 as a part of the Block 356 sale.																																			
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Red Maple	16	Sapling/Pole	4																																							
32	500 - Water	Nonstocked	30.9			No	Section one lake.																																			
33	4130 - Aspen	Sapling Well	11.9	30	Immature	N/A	Young Aspen stand with good regen. Some log sized Aspen and pine trees were left during the last harvest.																																			
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Red Maple	10	Sapling	3																																							
34	4133 - Aspen, Mixed Pine	Sapling Well	166.4	15	Immature	N/A	Young aspen stand with a decent pine component that is scattered throughout the stand. There are also heavier areas of pine focused around section one and marsh lakes. There is also a good amount of log sized pine and oak that were left during the last harvest, with most of this focused around the lakes. Stand was cut in 2007 as a part of the sale Section One Aspen.																																			
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Black/Red (Hybrid) Oak	6	Pole/Sapling	6																																							
Black Cherry	4	Sapling	1																																							
Red Maple	15	Sapling	1																																							
35	6127 - Lowland Pine	Poletimber Poor	15.9	65	1-50	N/A	mixed pine and spruce stand around a small lake with open areas of shrubs and smaller trees closer to the edge of the lake.																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
36	500 - Water	Nonstocked	7.7			No	Marsh Lake																																				
37	500 - Water	Nonstocked	1.0		Immature	No	Guthrie lake																																				
38	122 - Road/Parking Lot	Nonstocked	3.6			No	Public Access site for Guthrie lake. Has some red pine on it.																																				
39	622 - Lowland Shrub	Nonstocked	2.9		Immature	No	lowland shrub stand with a mix of small conifers and deciduous trees scattered throughout it.																																				
40	3205 - Mixed Upland Shrub	Nonstocked	158.2			No	military air to ground range.																																				
41	4124 - Red with White Oak	Sawtimber Medium	25.2	85	51-80	N/A	85 year old oak stand that is on the smaller end of the log size class with a decent amount in the pole sized class Understory mainly consists of red maple and white pine. Oak stand was thinned in 2006.																																				
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42	3102 - Grass	Nonstocked	0.9																																								
43	6225 - Bog	Nonstocked	1.8		Immature	No	Bog inside of military range fence.																																				
44	6225 - Bog	Nonstocked	1.1			No	Bog within the military range fence.																																				
45	6225 - Bog	Nonstocked	13.7			No	bog within the military range fence.																																				
46	3102 - Grass	Nonstocked	0.8			No	Open grassland.																																				
47	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	13.6	90	111-140	N/A	Appears to be an old white pine plantation, with rows still evident here and there. However, the stand is starting to develop more of a natural look in areas due to a lack of management. The stand is mostly pole sized, but there are quite a few super canopy legacy white pine in the stand. There is a good amount of white pine regen around 20 feet and a mix of beech and hybrid oak at 5 to 10 feet.																																				
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49	3102 - Grass	Nonstocked	2.5	2021		No	Managed oil/gas site that is mostly grass with a few pockets of Aspen.																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
50	3102 - Grass	Nonstocked	1.7	2021			
51	3102 - Grass	Nonstocked	1.4	2021			