



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72220

Entry Year 2023

Acreage: 170

County Crawford

Management Area: AuSable Outwash

Revision Date: 2021-06-14

Stand Examiner: Derek Nellis

Legal Description:

Grayling Township, T26N R03W sections 17 and 18
T26N R04W section 12

Identified Planning Goals:

Due to the fractionalized ownership in this compartment, the goals are varied. Major concerns of this compartment are military, visual management, and historical as well as to maintain forest health, productivity, sustainability, species diversification and structural diversity where we can on these small ownerships. The primary management objective for lands in section 17 is education regarding and maintenance of the historical Beal Plantation. The primary management objective for lands in section 18 is maintenance of swamp and lowland types for wildlife and fisheries habitat. The primary objective for lands in section 12 is military use and to maintain the current sustainability of forest cover types on this military board land. The DNR will coordinate all prescribed activities with the National Guard to ensure they are compatible with military training needs.

Soil and topography:

The topography of this compartment is flat to slightly rolling. The upland soils are primarily Grayling sands, the lowland portions are Tawas-Leafriver mucks.

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

This compartment has very fractionalized ownership. The majority of property within the compartment boundary is private. This compartment is made up of three small parcels of state ownership and one small parcel of military board land in the vicinity of the City of Grayling. Commercial and residential development is present throughout.

Unique Natural Features:

Per Michigan Natural Features Inventory there is potential for dusted skipper, grizzled skipper, red-legged spittlebug, Henry's elfin, secretive locust, and boreal brachionycha in barren areas. The compartment shows potential for red-shouldered hawk and goshawk. Wood turtles and Blanding's turtle could be found in the streams. Eagle and osprey may also occur. Michigan Natural Features Inventory reports "excellent potential" for eastern massasauga rattle snake.

Potential plant species are rough fescue, pale agoseris, Hill's thistle, and Alleghany plum in pine barrens/dry sand prairie. False violet could occur in hummocky pine, hardwood, or aspen stands. Rare plants of Cedar Swamps: round-leaved orchis, calypso, ram's-head lady's slipper, and limestone oak fern may be present. There is potential for clubmoss in moist grassy depressions or moist sandy soil/borrow pits. Houghton's goldenrod might be found in seasonally moist grassy depressions.

Archeological, Historical, and Cultural Features:

The Beal Plantation is found in section 17. It was established in 1888, and is one of the nation's first forest plantations. There is a parking lot, walking path and interpretive signs.

Special Management Designations or Considerations:

The Military Board Lands found in the compartment are designated "special conservation areas".

Watershed and Fisheries Considerations:

Simpson Creek, a small tributary to the AuSable River is found in section 18.

Wildlife Habitat Considerations:

Promote the expansion of aspen and oak cover types. Protect mast producing shrubs whenever possible. Efforts should be made to enhance dead and down woody debris and standing snags.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Michigan Formation, quarried for gypsum elsewhere in the State. The nearest gravel pit is located two and one-half miles to the north and potential is thought to be limited. The west part of the compartment is State Military Reservation. There are no oil and gas leases in this compartment. The nearest production is Beaver Creek Field, located six miles to the southwest.

Vehicle Access:

The only portions of this compartment not accessible by vehicles are the parcels found in section 18 behind the Grayling Country Club. There is a non-exclusive easement along the center section line across the golf course. This easement is not currently drivable.

Survey Needs:

SWNE section 12 - The QQ corner just north of the meander in the AuSable River.

Recreational Facilities and Opportunities:

The Beal Plantation walking/hiking trail and Snowmobile Trail #782 are present. Evidence of hunting and gathering activities found throughout the compartment.

Fire Protection:

Most of this compartment is urban. There is potential for some wildland fire activity in the barren portions of the compartment found in section 12. Equipment access will be an issue for any events found around Simpson Creek.

Additional Compartment Information:

The following reports from the Inventory are attached:

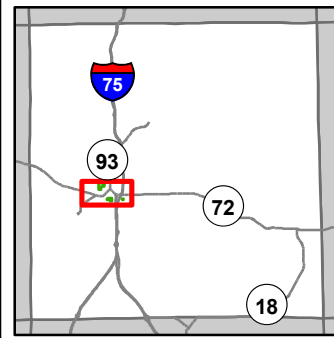
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

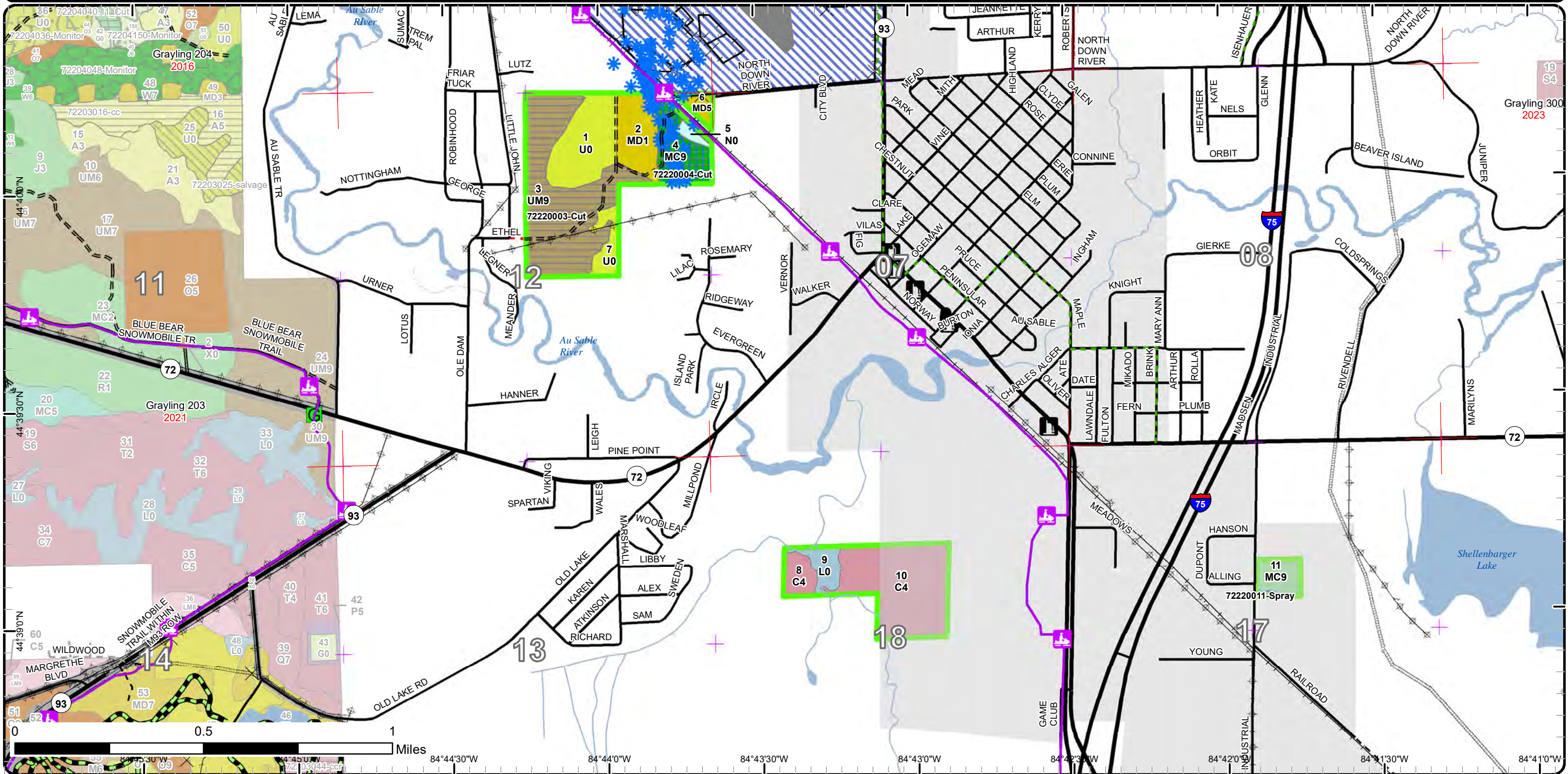
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 220
 T26N R04W 12n/T26N R03W 17-18
 County: Crawford
 Unit: Grayling
 Mgmt Area: AuSable Outwash
 YOE: 2023
 Acres: 169.8 GIS Calculated
 Examiner: Derek Nellis
 Map Revised: 9/1/2021
 Map Phase: Review

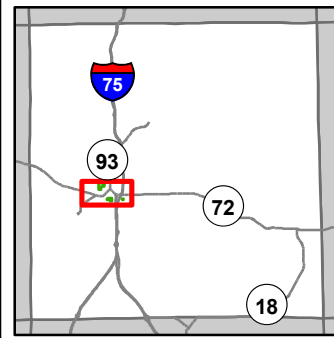


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Active Railroads
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated ORV Route
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- Non-DNR Trails - User Created
- G Gas Station
- ▲ Berms
- G Gate
- City
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Airports
- Cities
- Compartment Boundary
- Treatments with Site Conditions
- Pesticide
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- ★ Camp Grayling Monitoring Wells
- ✕ Camp Grayling Gates
- Camp Grayling Fence
- Camp Grayling Airfield

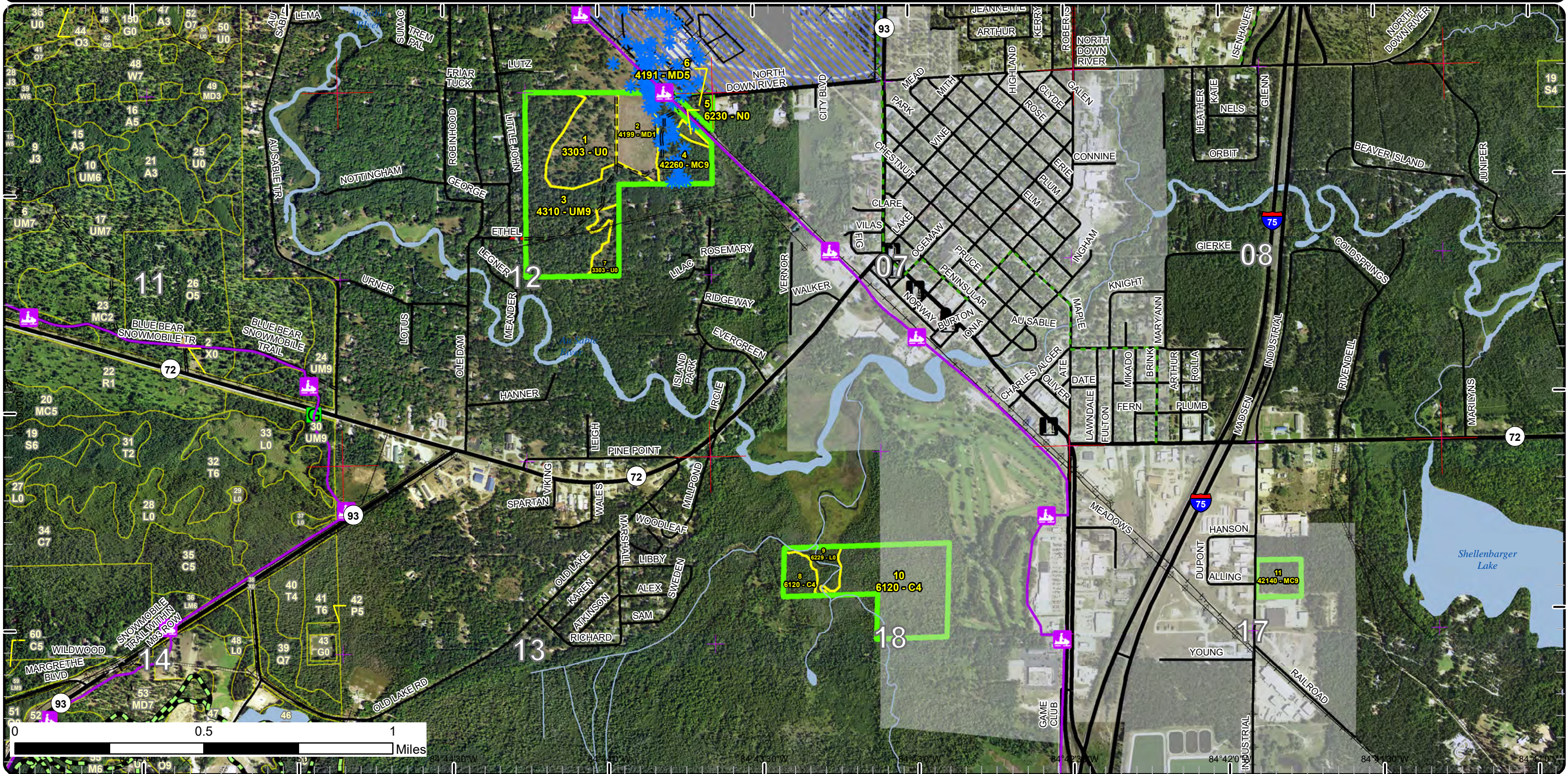


Stand Boundary Map

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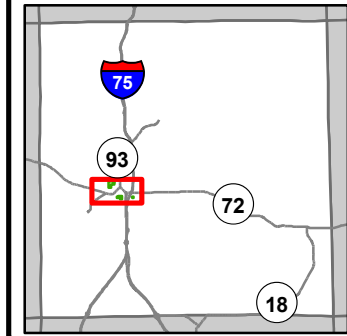


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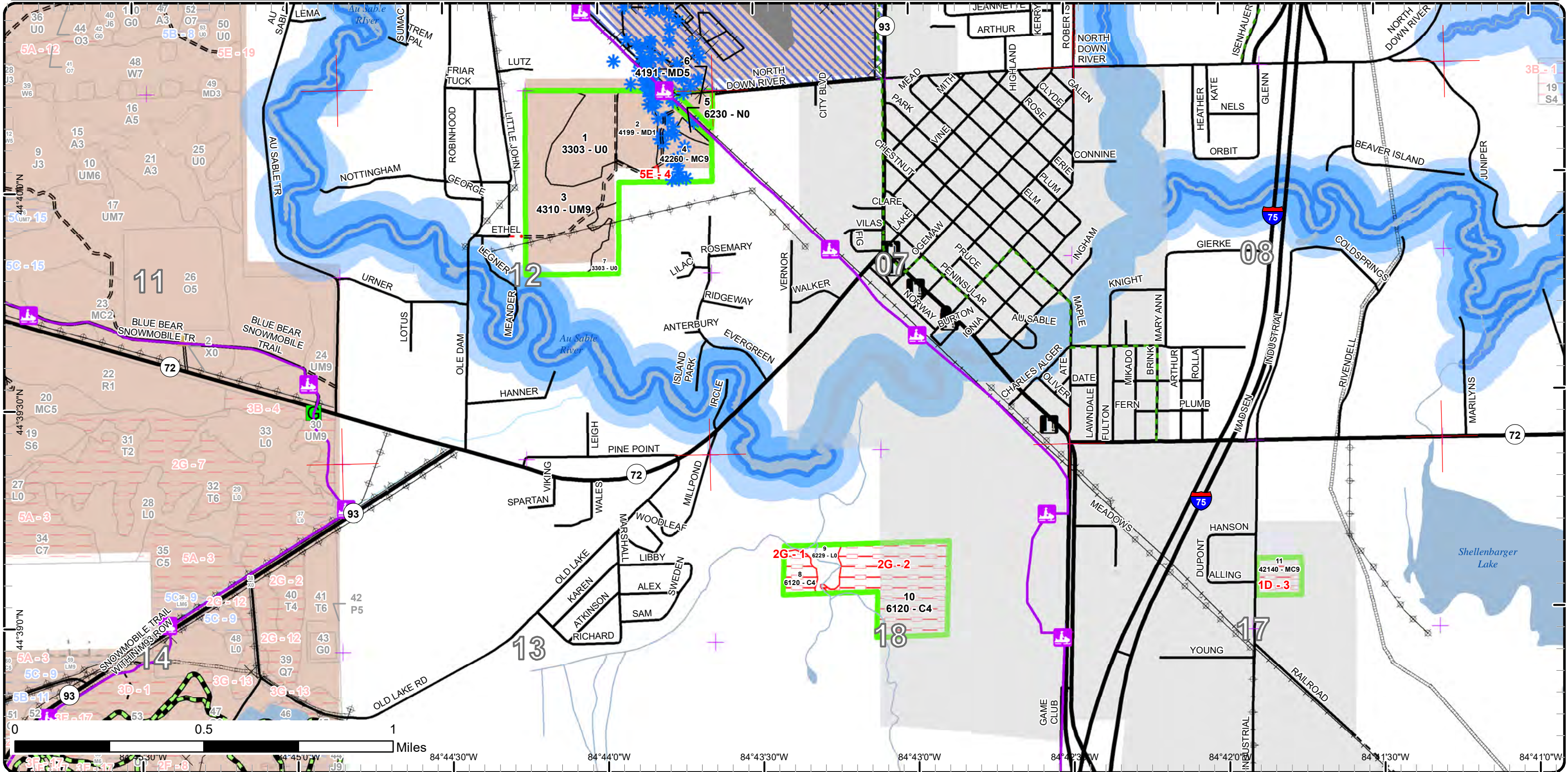


Special Conservation Areas

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- ⚡ Powerline
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- Compartment Boundary
- Unavailable
- 1D: Interest Group / Neighbor
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- ★ Camp Grayling Monitoring Wells
- X Camp Grayling Gates
- Camp Grayling Fence
- Camp Grayling Airfield



Report 1 – Total Acres by Cover Type and Age Class

Mgt. Unit
: Examiner

Compartment

Year of Entry



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	
	#Error	#Error	#Error	#Error	#Error	#Error	#Error	#Error	#Error	#Error	#Error	#Error	#Error	#Error	#Error	#Error	#Error	#Error	#Error	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 220

Total Compartment Acres: 170

Commercial Harvest - 65
 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
Natural Mixed Pines	0	0	0	15	0	0	0	0	0	15
Upland Mixed Forest	50	0	0	0	0	0	0	0	0	50
Total	50	0	0	15	0	0	0	0	0	65

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	65	0	0	0	0	1	0	0	0	65
Next Step	0	0	0	0	0	0	65	0	0	65
Total	65	0	0	0	0	1	65	0	0	131



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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
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Total Treatment Acreage Proposed: 0

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 220
Year of Entry: 2023

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	<i>With Condition</i>	Not Available

Dominant Site Conditions

	0	0	0	Cedar
	0	0	0	Low-Density Trees
	0	0	0	Lowland Shrub
	0	0	0	Marsh
	0	0	0	Mixed Upland Deciduous
	0	0	0	Natural Mixed Pines
	0	0	0	Planted Mixed Pines
	0	0	0	Upland Mixed Forest
				Total Forested Acres
				Relative Percent

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	38	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	1D: Interest Group / Neighbor	8	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Beal Plantation. University research plots and tagged trees throughout the stand. Walking path with interpretive signage.							

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 220
Year of Entry: 2023

4	Unavailable	5E: Long-Term Retention	1	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	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.
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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
1	3303 - Mixed Low Density Trees	Nonstocked	22.2		Unspecified	No	Old railway corridor bisects the stand. Some warm season grasses. Patches of jack pine mixed with red pine and evenly scattered white and pin oak.																																																														
				<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>White Pine</td> <td>Trace</td> <td>Unspecified</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Unspecified</td> <td>Sapling</td> </tr> <tr> <td>Northern Pin Oak</td> <td>Low</td> <td></td> <td>Log</td> </tr> <tr> <td>Cherry (spp.)</td> <td>Low</td> <td></td> <td>Tall Shrub</td> </tr> <tr> <td>Serviceberry (Juneberry)</td> <td>Trace</td> <td>Unspecified</td> <td>Tall Shrub</td> </tr> <tr> <td>Hawthorn (spp.)</td> <td>Trace</td> <td>Unspecified</td> <td>Tall Shrub</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td></td> <td>Pole</td> </tr> <tr> <td>Pines (spp.)</td> <td>Trace</td> <td>Unspecified</td> <td>Seeding</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Trace	Unspecified	Sapling	Red Pine	Trace	Unspecified	Sapling	Northern Pin Oak	Low		Log	Cherry (spp.)	Low		Tall Shrub	Serviceberry (Juneberry)	Trace	Unspecified	Tall Shrub	Hawthorn (spp.)	Trace	Unspecified	Tall Shrub	Jack Pine	Low		Pole	Pines (spp.)	Trace	Unspecified	Seeding	Stand is slowly seeding in w/ trees.																											
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2	4199 - Other Mixed Upland Deciduous	Sapling Poor	14.0	5	Immature	N/A	Primarily pin oak and aspen with a low stocking of planted JP.																																																														
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3	4310 - Pine, Oak Mix	Sawtimber Well	49.8	117	111-140	N/A	Two aged stand with legacy pine scattered throughout. Good white pine regeneration. Old railroad grade cuts across the northern portion of the stand.																																																														
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4	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	15.2	118	111-140	N/A	Private land to the east was harvested since last inventory cycle.																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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5	6230 - Cattail	Nonstocked	1.5		Unspecified	No	Cattail lowland				
								Sub-Canopy Species	Density	Avg. Height	Size
								Blueberry/Bilberry/Cranberry	Trace		Tall Shrub
								Cattail spp.	High		Non-Wood

6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	3.2	50	51-80	N/A	Small stand created because of RR row.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	6		Red Maple	Low	Variable	Sapling
Quaking Aspen	30	Log/Pole	8	50	White Pine	Low	Variable	Sapling
Northern Pin Oak	25	Pole/Log/Sap	8		Deciduous Shrubs	Medium	5 - 10 feet	Tall Shrub
White Pine	20	Log/Pole	15	117	Cherry (spp.)	Medium	Variable	Tall Shrub
Jack Pine	5	Pole/Log	7					

7	3303 - Mixed Low Density Trees	Nonstocked	6.3		Unspecified	No	Similar composition to stand 1. Low density oak, pine, and woody shrubs. Slowly seeding in.
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Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Trace		Log
Red Pine	Trace		Pole
White Pine	Low		Pole
Cherry (spp.)	Medium		Tall Shrub
Oak (spp.)	Trace		Sapling
Red Maple	Trace		Pole

8	6120 - Lowland Cedar	Poletimber Poor	5.8	90	Unspecified	N/A	Lowland conifer swamp
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	23	Pole/Sap/Log	8		Balsam Fir	High	Variable	Sapling
Paper Birch	10	Pole/Sapling	6		Black Spruce	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	5		Tamarack	Low	Variable	Sapling
Black Spruce	2	Pole	5		White Pine	Low	Variable	Sapling
Northern White Cedar	55	Pole/Log	8	90	Deciduous Shrubs	Medium	5 - 10 feet	Tall Shrub
Black Ash	5	Pole/Sapling	5					

9	6229 - Mixed lowland shrub	Nonstocked	6.0		Unspecified	No	With removal of old dam this area is starting to dry out a little. Simpson Ck found within stand.
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Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low		Sapling
Cattail spp.	Low		Non-Wood
Tag Alder	Low		Tall Shrub
Tamarack	Low		Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10	6120 - Lowland Cedar	Poletimber Poor	38.3	90	1-50	N/A	Deer activity is very high in this area. Excellent horizontal structure.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	23	Pole/Sap/Log	8		Balsam Fir	High	Variable	Sapling
Paper Birch	5	Pole/Sap/Log	8		Black Spruce	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	5		Tamarack	Low	Variable	Sapling
Black Spruce	2	Pole/Sapling	5		White Pine	Low	Variable	Sapling
Northern White Cedar	55	Pole/Log	8	90	Deciduous Shrubs	Medium	5 - 10 feet	Tall Shrub
Black Ash	10	Pole/Sapling	6					

11	42140 - Planted Mixed Pine	Sawtimber Well	7.5	133	111-140	N/A	Ongoing research plots throughout the stand. Individual trees are tagged for study.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	2	Log	12		White Spruce	Low	Variable	Sapling
Northern Pin Oak	8	Log/Pole	12		White Pine	High	Variable	Sapling
White Pine	40	Pole/Log/Sap	9	133	Red Pine	Low	Variable	Sapling
Red Pine	25	Log/Pole	14		Norway Spruce	Medium	Variable	Sapling
Jack Pine	5	Pole/Log	8		Oak (spp.)	Medium	Variable	Sapling
Norway Spruce	15	Log/Pole	11					
Scotch Pine	5	Pole/Sapling	8					

Beal plantation, walking trail in stand.