



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45114

Entry Year 2022

Acreage: 1,886

County Mackinac

Management Area: Mackinac Mix

Revision Date: 2020-07-24

Stand Examiner: Andrew Krugh

Legal Description:

T 43N R6W SECTIONS 19, 20,

Identified Planning Goals:

Manage landscape for Timber, Wildlife, and recreational needs.

Soil and topography:

Wallace sands, Au Gres sand, Kinross-Aubres complex, Markey-Carbondale muck, Histosols and Aquents

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

Compartment consists entirely of State ownership.

Unique Natural Features:

Michigan Natural Features Inventories has identified parts of section 20 as "poor fen". □

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

T43N-R06W Sections 19, 20 & 21

Fisheries Concerns: This compartment is in both NLHMU and NLMMU. The portion in NLHMU includes the South Branch Carp River flowing through the northeast corner of this compartment. The prescribed treatments are appropriate for the protection of this stream.

Wildlife Habitat Considerations:

This compartment is part of the Mackinac Mix MA where featured wildlife species include black bear, pileated woodpecker, ruffed grouse, snowshoe hare, and white-tailed deer. Most of the compartment consists of lowland conifer swamp, much of which is dominated by cedar of varying size and density. Low marshy and shrub-dominated areas are scattered through the compartment, one of which is a poor fen ERA that is located on the southeastern side. An upland ridge with young aspen is in the northeastern corner while the southeastern corner contains part of a larger northern hardwood stand. One lowland deciduous stand is located toward the center of the compartment.

Wildlife objectives include maintaining the lowland conifer complex habitat, protecting wetlands and rare features, and encouraging diversity. No activities will take place in the ERA unless they will maintain or enhance the habitat (ex. invasive species control). Limited harvesting will take place to encourage young growth and diversity, which will benefit deer, grouse, hare, beaver, and other species. Hemlock will be left, and species diversity will be maintained. Maturing trees through much of the compartment will provide habitat features for woodpeckers and other cavity nesters. The large block of lowland habitat and limited disturbance will favor species like bear.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the Glacial Drift thickness. The Silurian Engadine Group subcrops below the Glacial Drift. The Engadine is quarried for stone/limestone elsewhere in the UP. The nearest gravel pit is five miles to the northwest. There appears to be limited gravel potential. There is no economic oil and gas production in the UP. Portions of the land is surface only.

Vehicle Access:

Access to the compartment is limited to two routes. Road access to section 19 is via Bennett road from the west. Dell's Mills road enters the compartment from the east and through section 21 and is the only road access into section 20.

Vehicle traffic is limited to dry periods along much of these roads, as they tend to flood out during wet periods. Caffey

Truck Trail crosses the very NE corner of section 21.

Survey Needs:

None at this time

Recreational Facilities and Opportunities:

Recreation opportunities in this compartment are deer, grouse and rabbit hunting. Trapping and wildlife viewing opportunities exist as well. Moose can be observed in this compartment.

Fire Protection:

Little potential for large problem fires exists. Nearly the entire compartment consists of low and wetter ground. Equipment access would be a problem for any fires. There are some scattered large white pine that could attract lightning and with heavy amounts of organic matter in the soil, any duff fires could require extensive mop-up. Moran VFD's protection area.

Additional Compartment Information:

The following reports from the Inventory are attached:

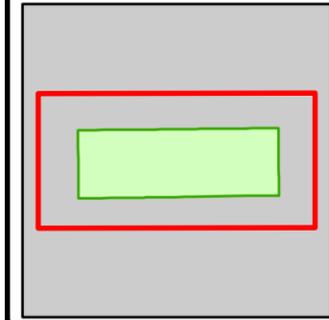
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

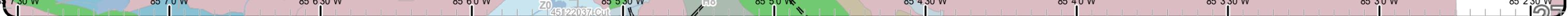
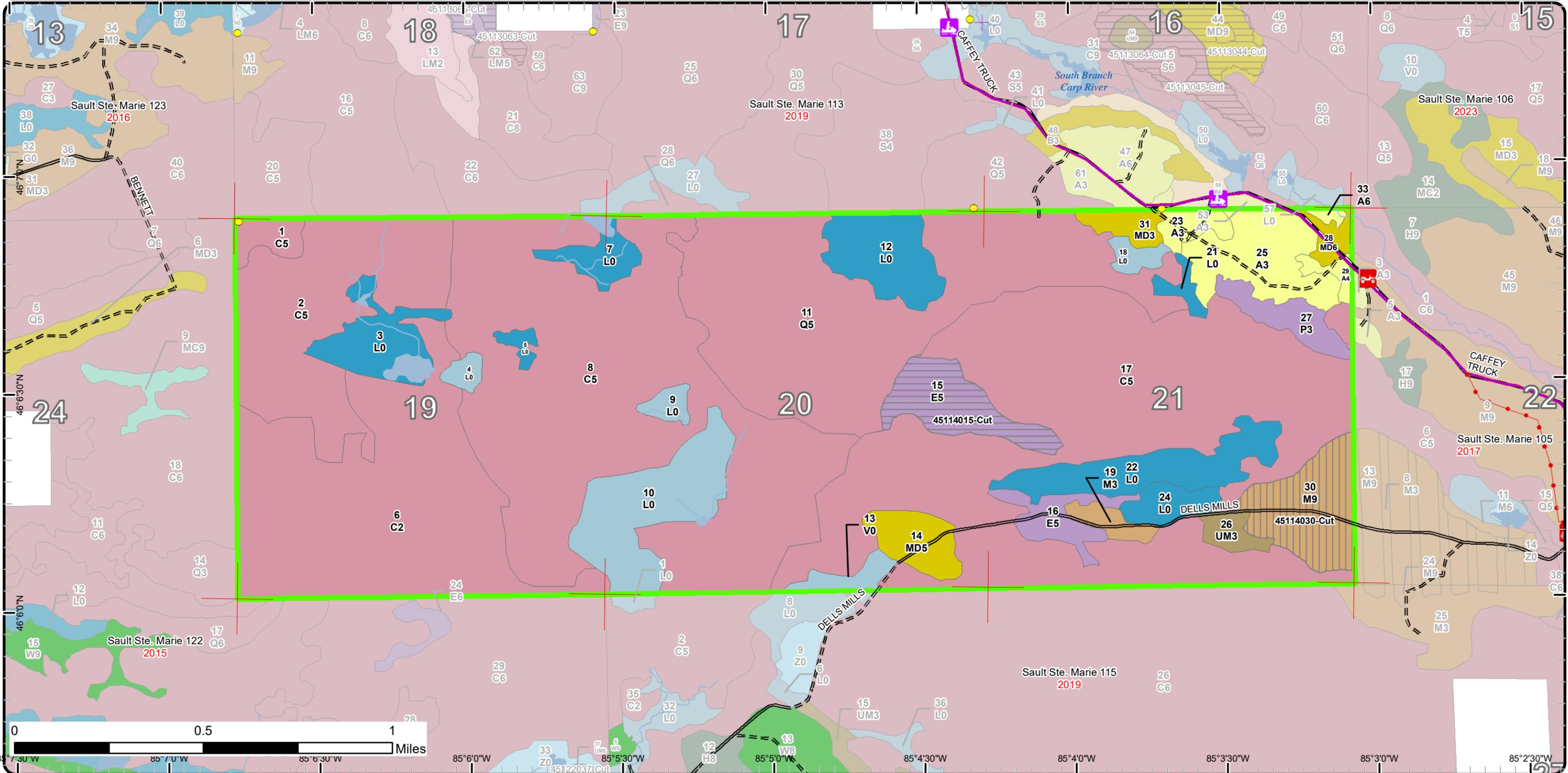
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 114
 T43N, R06W, Sec: 19-21
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Mackinac Mix
 YOE: 2022
 Acres: 1,886 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 8/10/2020
 Map Phase: Web Post

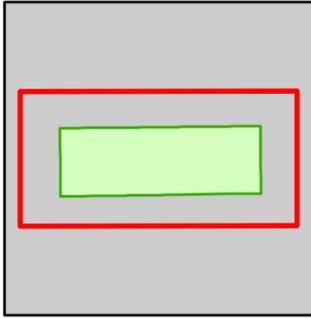


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Private - Dirt / Gravel Road
- ORV Routes
- + Snowmobile Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland

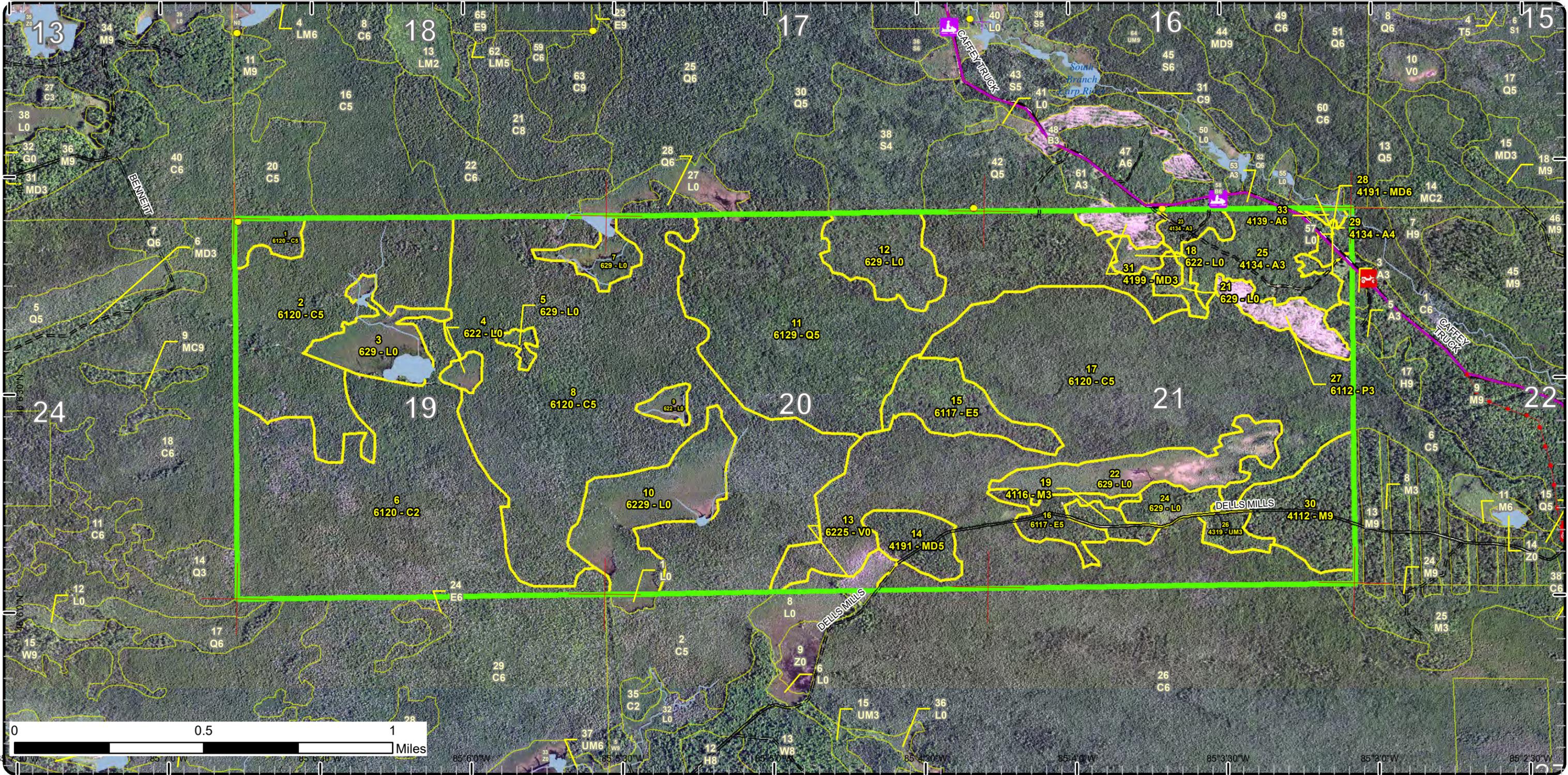


Stand Boundary Map

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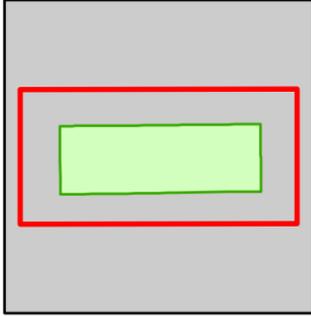


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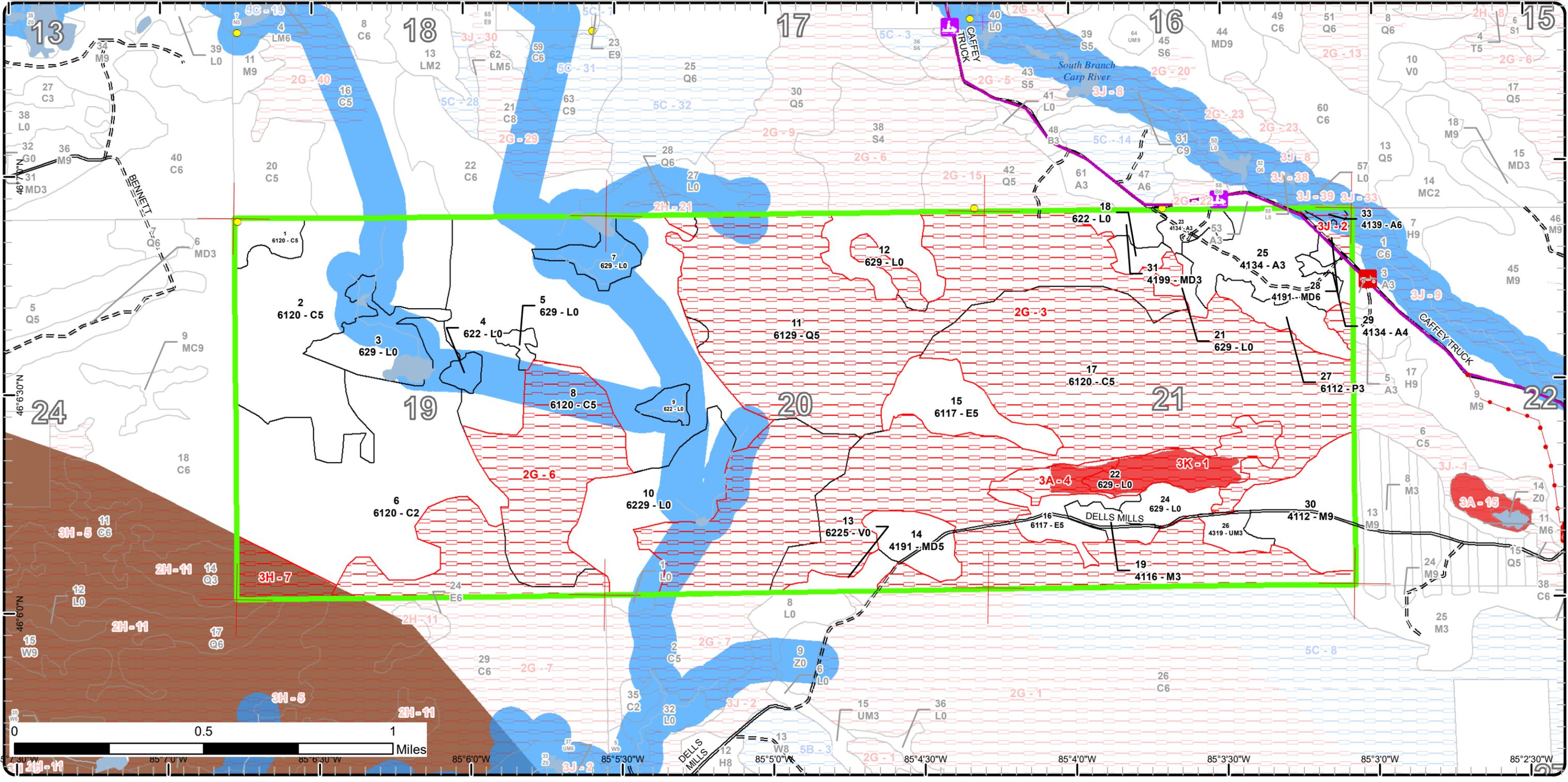


Special Conservation Areas

Compartment: 114
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- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 3K: Rare or unique landforms
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



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+	Unexamined-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

Sault Ste. Marie Mgt. Unit
Year of Entry: 2022

Compartment 114
Total Compartment Acres: 1,886

Acres of Harvest

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



S
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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

Total Treatment
Acreage Proposed: 0

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit
Andrew Krugh : Examiner

Compartment: 114
Year of Entry: 2022

Availability for Management

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

Dominant Site Conditions

	0	0	0	Aspen
	0	0	0	Bog
	0	0	0	Cedar
	0	0	0	Lowland Aspen/Balsam Poplar
	0	0	0	Lowland Conifers
	0	0	0	Lowland Deciduous
	0	0	0	Lowland Shrub
	0	0	0	Mixed Upland Deciduous
	0	0	0	Northern Hardwood
	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	3K: Rare or unique landforms	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	763	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 114

Year of Entry: 2022

4	Unavailable	3A: Conservation Values incompatible with harvest at this time	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	140	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	17	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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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	6120 - Lowland Cedar	Poletimber Medium	11.2	118	111-140	N/A	Large dia, short height cedar w/ some scattered birch and such. Wet ground, some cedar is blown down. Not much for deer sign and there is some cedar regen.																																						
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2	6120 - Lowland Cedar	Poletimber Medium	132.6	120	81-110	N/A	Thick jumble of shorter cedar. A lot is tipped in the wet soil. Some scattered ash, birch, and spruce. A tamarack or 2 near the road. Not much productivity here. There is some cedar regen in places and a lot of tag alder where wettest. Stay away from here.																																						
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3	629 - Mixed non-forested wetland	Nonstocked	31.6		Unspecified	No																																							
4	622 - Lowland Shrub	Nonstocked	5.0			No																																							
5	629 - Mixed non-forested wetland	Nonstocked	4.0		Immature	No																																							
6	6120 - Lowland Cedar	Sapling Medium	231.3	120	81-110	N/A	Poor quality sparse cedar stand that has been flooded out in past. Little chance of merchantability here. It is what it is, a wet non productive cedar swsmp.																																						
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8	6120 - Lowland Cedar	Poletimber Medium	376.3	105	81-110	N/A	Areas of down cedar, very wet in spots. More mix of tamarack in this stand. Not much to see or do here.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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11 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 246.3 122 81-110 N/A Non-merchantable wet cedar and tamarack. some areas of black spruce and red maple brush. Alot of tag wherever open. Poor quality stand. No reason to ever come here again, deer flies the size of small birds! scattered cedar regan.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	4		Black Spruce	Low	< 5 feet	Sapling
Black Spruce	20	Pole	5		Tag Alder	Medium	Variable	Tall Shrub
Northern White Cedar	40	Pole	5	122	Northern White Cedar	Trace	5 - 10 feet	Sapling
Tamarack	20	Pole	5					

12 629 - Mixed non-forested wetland Nonstocked 37.1 No low density spruce bog

13 6225 - Bog Nonstocked 9.2 No

14 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 20.3 37 51-80 N/A Cc in 1983.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole	5	37
Balsam Poplar	25	Pole/Sapling	5	
Balsam Fir	20	Pole/Sapling	5	
Black Cherry	25	Pole/Sapling	5	

16 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 18.0 60 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Sapling	7	60
Paper Birch	15	Pole/Sapling	6	
Quaking Aspen	20	Pole/Sapling	6	
Balsam Fir	10	Pole/Sapling	6	
White Spruce	15	Sapling/Pole	4	
Northern White Cedar	15	Pole/Sapling	6	
Black Cherry	5	Pole/Sapling	5	

17 6120 - Lowland Cedar Poletimber Medium 415.6 110 111-140 N/A Very wet, poor quality sparse stand of mostly cedar. 1to 2 sticks. Some spruce and tamarack in small patches scattered. Do not return for years!

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Sapling	4		Tag Alder	Medium	Variable	Tall Shrub
Northern White Cedar	80	Pole	5	110				
Tamarack	10	Sapling	4					

18 622 - Lowland Shrub Nonstocked 6.4 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
19	4116 - Mixed N. Hardwood - Aspen	Sapling Well	8.6	18	Immature	N/A	cc in 2002. mix of maple and cherry brush with aspen and some scattered spruce and balsam.																																													
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21	629 - Mixed non-forested wetland	Nonstocked	5.5			No																																														
22	629 - Mixed non-forested wetland	Nonstocked	44.3			No																																														
23	4134 - Aspen, Spruce/Fir	Sapling Well	9.7	31	51-80	N/A	Mixed bag of poor quality aspen, mixed conifer w tamarack, balsam, & spruce. Small size, wet ground.merge with stand 20																																													
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24	629 - Mixed non-forested wetland	Nonstocked	13.3		Unspecified	No																																														
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26	4319 - Mixed Upland Forest	Sapling Well	8.8	18	Immature	N/A	Cut in 2002.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27 6112 - Lowland Aspen Sapling Well 17.6 5 Immature N/A recent clear cut. Regen consists of aspen red maple, black cherry, spruce, fir, and cedar

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Sapling	1	
Quaking Aspen	45	Sapling	1	5
Black Spruce	10	Sapling	1	
Balsam Fir	5	Sapling	1	
Northern White Cedar	10	Sapling	1	

28 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 7.0 40 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole/Log	9	
Paper Birch	10	Pole/Sapling	6	
Quaking Aspen	35	Pole/Sapling	7	40
Balsam Fir	20	Pole	5	
Black Cherry	5	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling
Black Spruce	Low	< 5 feet	Sapling

29 4134 - Aspen, Spruce/Fir Poletimber Poor 5.2 25 1-50 N/A opening closing in with scattered aspen, balsam, spruce & black cherry.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	40	Pole/Sapling	5	25
Balsam Fir	10	Pole/Sapling	5	
White Spruce	10	Pole/Sapling	7	
Black Cherry	40	Sapling	4	25

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	< 5 feet	Sapling
White Spruce	Low	< 5 feet	Sapling

30 4112 - Maple, Beech, Cherry Association Sawtimber Well 45.4 76 81-110 N/A Thinned in past 10 years. maple, nice black cherry, hemlock, and some scattered white pine.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	25	Log/Pole	11	
Red Maple	40	Log/Pole	11	76
Yellow Birch	10	Log	16	
Hemlock	5	Log/Pole	12	
Black Cherry	20	Log/Pole	13	

Sub-Canopy Species	Density	Avg. Height	Size
Maple (spp.)	Medium	Variable	Sapling