



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33100

Entry Year 2023

Acreage: 841

County Delta

Management Area: Dead Horse Moraines

Revision Date: 2021-06-03

Stand Examiner: Nick Urich

Legal Description:

T42N, R22W, Sections 8, 17, 20

Identified Planning Goals:

This compartment comprises the North Perkins Deer Yard. A variety of silviculture systems and site prep techniques were used in the regeneration efforts of cedar within this Deer Yard complex. Harvesting in the North Perkins Deer Yard began in 1963 and as cutting progressed, DNR foresters and wildlife managers felt the need for some type of long term direction and a plan was written in February 1970. This plan stated that "timber harvest within this compartment will be aimed at providing winter browse for deer and assuring future coniferous cover with hopefully some cedar reproduction." The 1970 plan called for strip cutting the 340 acre cedar stand and the plan was followed through the early 1980's. Timber harvesting was reinitiated in this compartment in 1994. In July 2000 a plan for the Completion of Cedar Regeneration Treatments was written. Harvesting and mechanical site prep treatments were completed in the winter of 2004. The 2000 plan called for no harvest treatments for 20-40 years so as not to draw deer into this area and hopefully set the stage for successful cedar regeneration and recruitment. Exclosures were erected and monitoring plots were established. These exclosures and plots will be monitored and evaluated. It was determined that the northernmost parcel of the compartment is ready for treatment and because of its proximity to the main block of cedar it's harvest would have minimal effect on congregation of deer in the yard. This harvest contains two mixed upland deciduous stand that will be clearcut leaving retention and seed trees. One mixed northern hardwood stand will be select cut.

Soil and topography:

Topography is generally flat. Major soil types are Lupton, Carbondale, Trenary, Cathro, Ensley, and Charlevoix.

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

Non-industrial private forest land surrounds the compartment to the north, east and south, while Lyme Great Lakes Timberlands cover the western boundary.

Unique Natural Features:

None known

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

The "North Perkins Deeryard" is located within this compartment.

Watershed and Fisheries Considerations:

This compartment contains two sections. The northern section of this compartment does not contain any waterbodies. The eastern region of the southern section of this compartment contains headwater areas that serve as tributaries to Inman Creek. Inman Creek is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for Inman 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:

Mineral Resource and Development Concerns and/or Restrictions

Sections 8, 17, & 20, T42N-R22W, Delta County No known potential exists for commercial oil & gas production in this part of the state. No active sand/gravel pits occur in the area. The compartment is predominantly wetlands, and potential for sand & gravel and/or limestone mining appears limited. There has been some limited mineral exploration in the area in the

past. However, potential metallic mineral bearing formations beneath the compartment are thought to be too deep to have significant potential for discovery or economic recovery.

Vehicle Access:

The compartment can be accessed from the east off of North 0.1 Lane, via a “winter road”. All other access is through private landowners or industrial land.

Survey Needs:

Survey corners needed for the NW1/4 NW1/4 Sec 8 T42N, R22W

Recreational Facilities and Opportunities:

Hunting and trapping.

Fire Protection:

Limited access due to the low terrain and lack of major access roads. Potential for fire is low.

Additional Compartment Information:

Deer exclosures were checked at the time of inventory. They are mostly within stand 21 and 24, with some in stand 14 and 16. Observations of the exclosures confirmed that deer are still heavily impacting and limiting cedar regeneration throughout the rest of the compartment.

The following reports from the Inventory are attached:

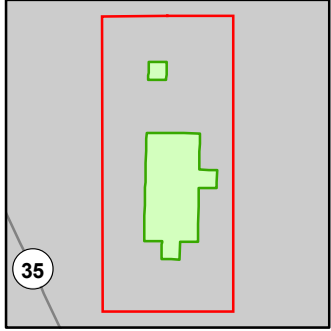
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

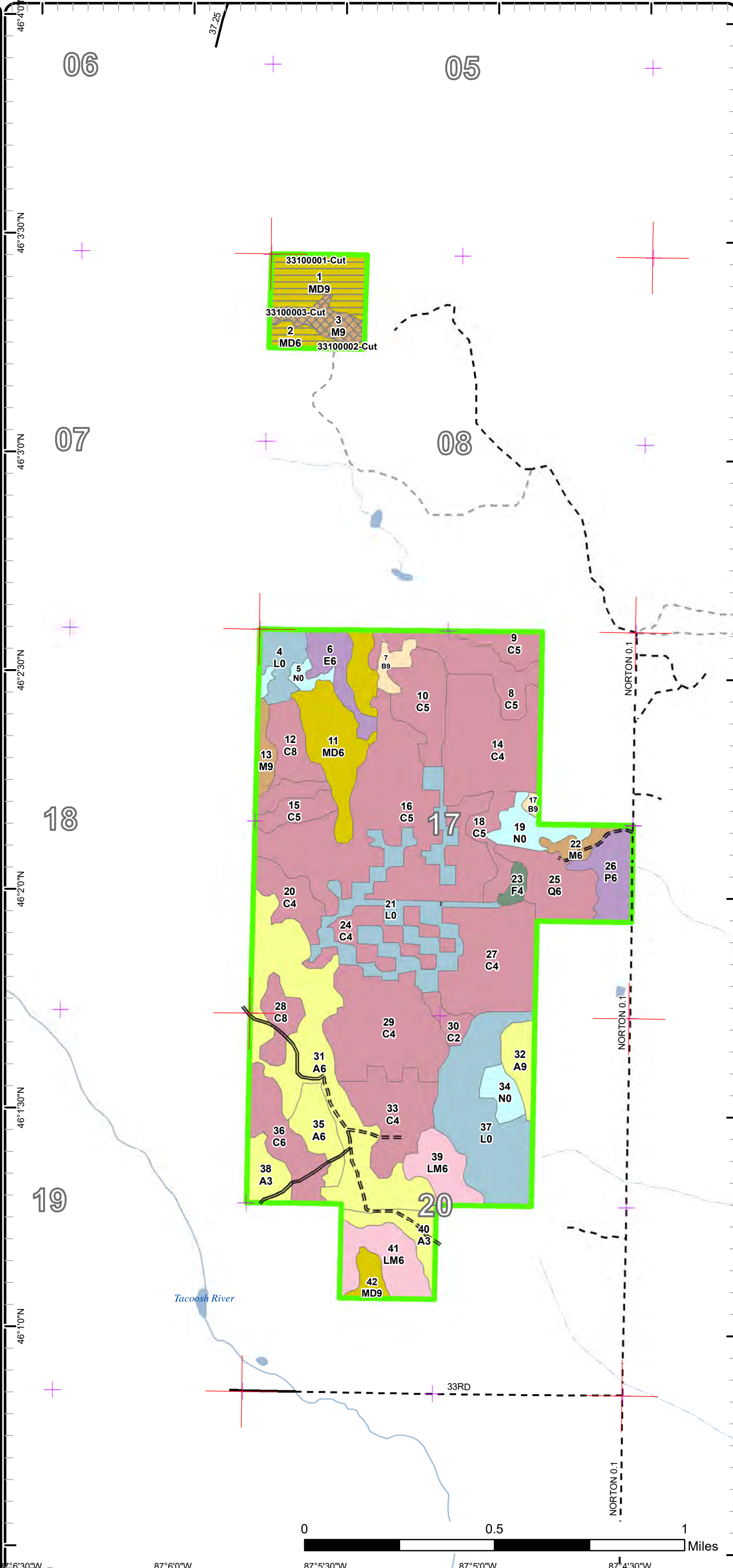
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 100
 T42N, R22W, Sec. 08, 17, 20
 County: Delta
 Unit: Escanaba
 Mgmt Area: Dead Horse Moraines
 YOE: 2023
 Acres: 840.9 GIS Calculated
 Examiner: Nick Urich
 Map Revised: 7/6/2021
 Map Phase: Web-Post

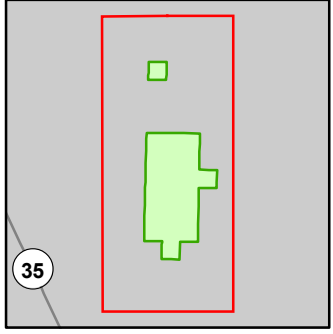


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub
- 623 - Emergent Wetland

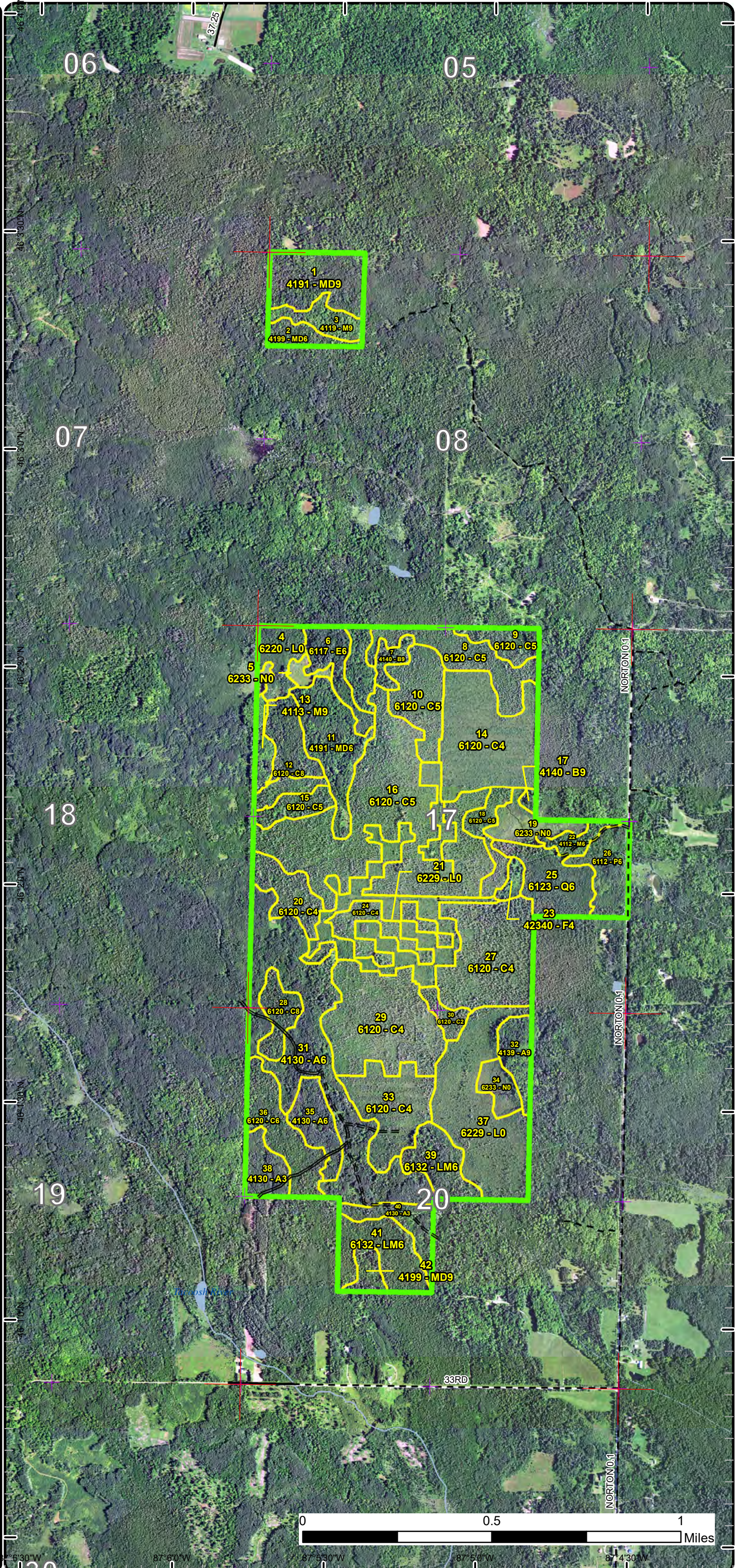


Stand Boundary Map

Compartment: 100
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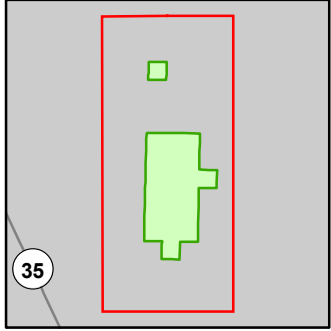
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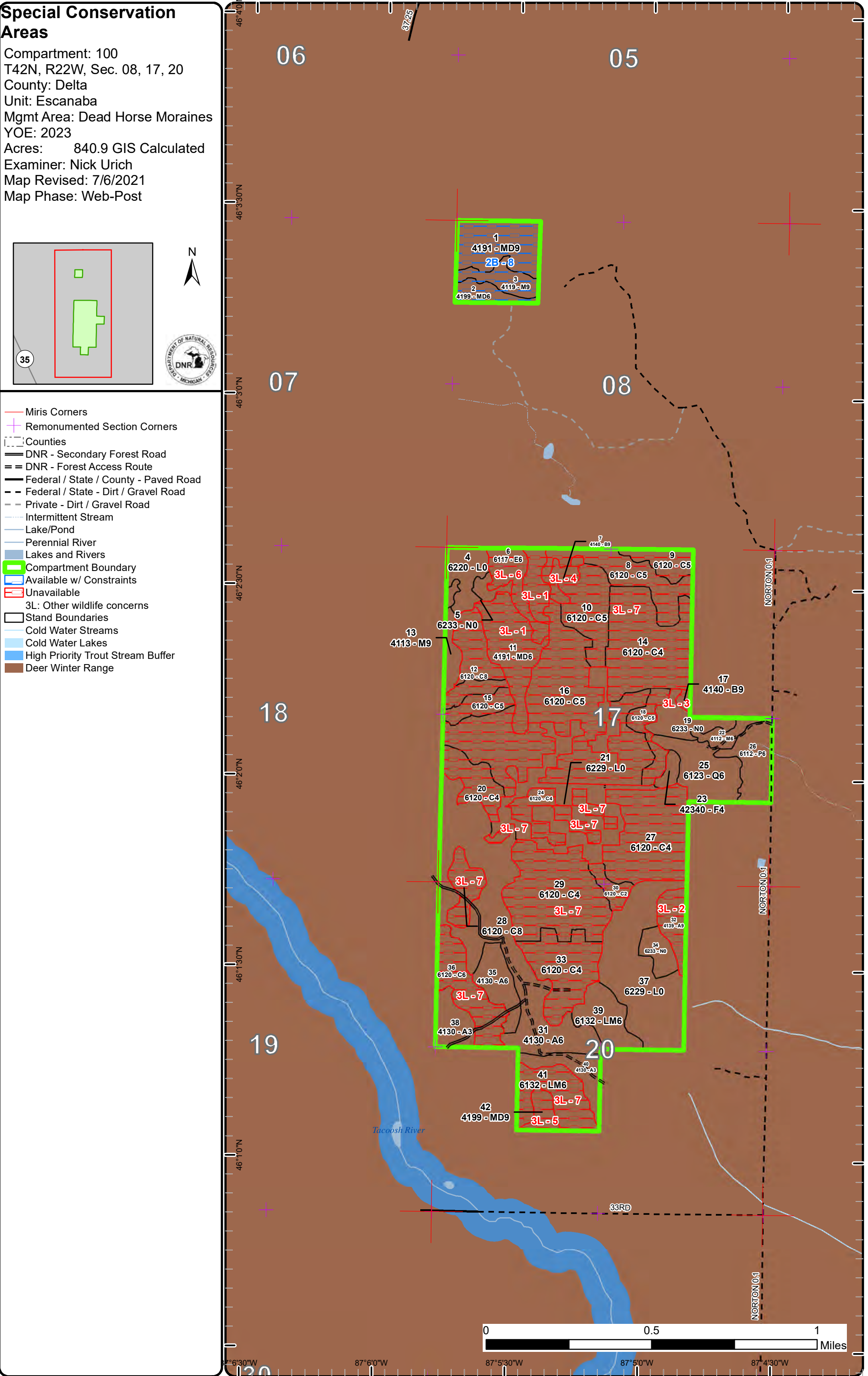
87°50'W 87°55'W 87°50'W 87°45'W 87°40'W
 46°30'N 46°35'N 46°40'N 46°45'N 46°50'N

Special Conservation Areas

Compartment: 100
T42N, R22W, Sec. 08, 17, 20
County: Delta
Unit: Escanaba
Mgmt Area: Dead Horse Moraines
YOE: 2023
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- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 3L: Other wildlife concerns
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



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	0	11	86	13	0	0	0	10	0	0	0	0	0	0	0	0	120
Cedar	0	0	0	0	0	0	5	0	0	0	0	0	0	402	0	0	0	0	407
Lowland Aspen/Balsam Poplar	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Deciduous	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	13
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	35
Lowland Shrub	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
Marsh	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Mixed Upland Deciduous	0	0	0	0	0	65	0	0	0	6	0	0	0	0	0	0	0	0	71
Northern Hardwood	0	0	0	0	0	9	0	0	0	11	0	0	0	0	0	0	0	0	20
Paper Birch	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	6
Upland Spruce/Fir	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	129	0	0	11	86	126	5	0	0	47	0	0	0	437	0	0	0	0	840



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 100

Total Compartment Acres: 841

Commercial Harvest -
 Harvests with Site Condition - 40
 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	31	0	0	0	0	0	0	0	0	31
Northern Hardwood	0	9	0	0	0	0	0	0	0	9
Total	31	9	0	0	0	0	0	0	0	40

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	40	0	0	0	0	0	0	0	0	40
Next Step	0	0	0	0	0	0	40	0	0	40
Total	40	0	0	0	0	0	40	0	0	79



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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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Proposed Treatments:

1	33100001-Cut	23.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	47	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3 inches leaving some scattered seed trees and retention. Heavier cedar area to the west should be retained out.</p> <p><u>Specs:</u> Quality seed trees that will maintain stand diversity should be left throughout the stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, maple, balsam poplar, balsam fir, spruce and other overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> The decision to harvest these stand was made based on the fact that the parcel location is removed from the main Perkins Deer Yard and the stands were reaching silvicultural maturity. It could also add a food source that would keep deer away from the main block of cedar treatments.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
2	33100002-Cut	6.8	4199 - Other Mixed Upland Deciduous	Poletimber Well	47	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3 inches diameter. Retain out areas that are heavier to small diameter regeneration, particular black ash.</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> Mix of aspen, maple, balm, ash, balsam fir and other overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> The decision to harvest these stand was made based on the fact that the parcel location is removed from the main Perkins Deer Yard and the stands were reaching silvicultural maturity. It could also add a food source that would keep deer away from the main block of cedar treatments.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
3	33100003-Cut	9.0	4119 - Mixed Northern Hardwoods	Sawtimber Well	47	81-110	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Even-Aged	No
<p><u>Prescription</u> Single tree selection: Mark this stand to 70-80 basal area. Include some gaps where advanced regeneration is present.</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> Mix of overstory species and advanced regeneration.</p> <p><u>Regen:</u></p> <p><u>Other</u> The decision to harvest these stand was made based on the fact that the parcel location is removed from the main Perkins Deer Yard and the stands were reaching silvicultural maturity. It could also add a food source that would keep deer away from the main block of cedar treatments.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

Total Treatment 39.6
Acreage Proposed:

Report 4 – Site Conditions

Escanaba Mgt. Unit

Nick Urich : Examiner

Compartment: 100

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions	
Acres	Available	With Condition	Not Available	2B	3L
120	110	0	10	Aspen	10
408	0	0	408	Cedar	408
16	16	0	0	Lowland Aspen/Balsam Poplar	
20	20	0	0	Lowland Conifers	0
13	0	0	13	Lowland Deciduous	13
35	15	0	20	Lowland Mixed Forest	20
106	106	0	0	Lowland Shrub	0
23	23	0	0	Marsh	0
70	0	31	40	Mixed Upland Deciduous	31
20	11	9	0	Northern Hardwood	9
6	0	0	6	Paper Birch	6
3	3	0	0	Upland Spruce/Fir	0
841	305	40	497	Total Forested Acres	40
	36%	5%	59%	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	3L: Other wildlife concerns	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand could be harvested but will be left due to the North Perkins Deer Yard Plan. Stand access is difficult.							
2	Unavailable	3L: Other wildlife concerns	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand meets silvicultural criteria, but will remain untreated at this time due to the 2000 Perkins Deer Yard management guidelines.							

Report 4 – Site Conditions

Escanaba Mgt. Unit

Nick Urich : Examiner

Compartment: 100

Year of Entry: 2023

3	Unavailable	3L: Other wildlife concerns	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand meets silviculture criteria but will not be harvested due to the 2000 Perkins Deer Yard Plan.							
4	Unavailable	3L: Other wildlife concerns	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand meets silvicultural criteria, but will remain untreated at this time due to the 2000 Perkins Deer Yard management guidelines.							
5	Unavailable	3L: Other wildlife concerns	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand could be harvested, but will remain untreated at this time due to the 2000 Perkins Deer Yard management guidelines.							
6	Unavailable	3L: Other wildlife concerns	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand meets silvicultural criteria, but will remain untreated at this time due to the 2000 Perkins Deer Yard management guidelines.							
7	Unavailable	3L: Other wildlife concerns	428	Unspecified	Unspecified	Unspecified	Unspecified
Comments: No treatment due to high amounts of northern white cedar.							
8	Available	2B: Unknown if access through adjacent landowner(s) is possible	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Access for timber sale prep and harvesting will need to be from the east through 3 different landowners.							

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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	23.8	47	111-140	N/A	Stand was treated in the late 1970's. The north edge contains a M6 type and the west edge has a small stand of C6. Stand of mostly mature quaking aspen and red maple with some balsam poplar. There is a substantial amount of smaller diameter balsam fir between the canopy and sub-canopy.																																																											
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3	4119 - Mixed Northern Hardwoods	Sawtimber Well	9.0	47	81-110	N/A	Stand was treated in the mid to late 1970's. Good sugar and red maple regen in the understory. The west end and the SE corner are slightly more lowland and mixed deciduous type. More red maple to the west becoming more heavily to sugar maple to the east.																																																											
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4	6220 - Alder/willow	Nonstocked	11.4		Unspecified	No																																																												
5	6233 - Wet Meadow	Nonstocked	4.5		Unspecified	No	Old beaver pond that is filling in.																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	12.7	80	81-110	N/A	Black ash drainage. Low and wet with small diameter timber.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	7		Red Maple	Medium	10 - 20 feet	Sapling
Balsam Poplar	5	Pole	7		Balsam Poplar	Low	10 - 20 feet	Sapling
Balsam Fir	20	Pole/Sapling	5		Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar	5	Pole	7					
Black Ash	50	Pole	7	80				

7	4140 - Other Upland Deciduous	Sawtimber Well	5.1	86	81-110	N/A	Upland in middle of cedar swamp, was not harvested when Perkins Deer Yard was harvested.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log/Pole	10		Balsam Fir	Low	10 - 20 feet	Sapling
Paper Birch	65	Log/Pole	10	86				
Quaking Aspen	5	Log/Pole	10					
Balsam Fir	5	Pole	8					
Northern White Cedar	15	Pole	7					

8	6120 - Lowland Cedar	Poletimber Medium	22.4	126	Unspecified	N/A	Open areas are filling in with ash and balm. This area was dozed in 2000-2001. It was small unmerchantable cedar. The cedar was reduced to 50% crown closure.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	10	Sapling	3		Black Ash	Medium	5 - 10 feet	Sapling
Northern White Cedar	80	Pole	7	126	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Ash	10	Sapling	3					

9	6120 - Lowland Cedar	Poletimber Medium	8.8	126	Unspecified	N/A	Area was dozed in 2000-2001. Clumps of cedar (12-15 trees/clump) were left. NE corner of stand is mature aspen, paper birch and red maple. There is an ash drainage included within this stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	8		Balsam Poplar	Medium	5 - 10 feet	Sapling
Quaking Aspen	5	Pole	8		Black Ash	Medium	5 - 10 feet	Sapling
Balsam Fir	5	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	80	Pole	7	126	Balsam Fir	Trace	< 5 feet	Seeding
Black Ash	5	Pole	8		Black Spruce	Trace	< 5 feet	Seeding

10	6120 - Lowland Cedar	Poletimber Medium	19.9	126	Unspecified	N/A	Area was hydromowed and dozed in winter of 2000-2001. Filling in with ash regeneration.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	95	Pole	7	126	Black Spruce	Low	< 5 feet	Sapling
Tamarack	5	Pole	7		Black Ash	Medium	5 - 10 feet	Sapling
					Tag Alder	Medium	5 - 10 feet	Tall Shrub
					Willow spp.	Medium	5 - 10 feet	Tall Shrub
					Paper Birch	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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11 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 34.1 43 81-110 N/A

Stand treated in 1978. There are pockets of pure red maple and pockets of pure balsam fir. Aspen and poplar scattered throughout the stand. Some larger diameter maple throughout as well.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	50	Pole/Log	9	43
Paper Birch	5	Pole/Sapling	5	
Quaking Aspen	10	Pole/Sapling	7	
Balsam Poplar	5	Pole/Sapling	7	
Balsam Fir	30	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling

12 6120 - Lowland Cedar Sawtimber Medium 13.1 126 Unspecified N/A

Stand was treated first in 2001 by a commercial harvest where merchantable timber was removed. Stand was then dozed in 2003- to reduce canopy closure to less than 50%, left clumps .25 - .5 acres in size. Filling in with ash and some spruce.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	8	
Balsam Poplar	5	Pole	8	
Balsam Fir	5	Pole	7	
Black Spruce	5	Pole	7	
Northern White Cedar	75	Log/Pole	10	126
Black Ash	5	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	< 5 feet	Sapling
Black Ash	High	5 - 10 feet	Sapling
Tag Alder	High	5 - 10 feet	Tall Shrub

13 4113 - R.Maple, Conifer Sawtimber Well 5.9 80 81-110 N/A

Stand was thinned in 2002. On the upper end of the 81 to 100 BA range.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	25	Log/Pole	10	
Red Maple	50	Log/Pole	10	80
Quaking Aspen	3	Pole	8	
Balsam Fir	10	Pole	8	
White Spruce	10	Pole	8	
Northern White Cedar	2	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling

14 6120 - Lowland Cedar Poletimber Poor 45.0 126 Unspecified N/A

This stand was treated from 1960- 1978 using the strip cut method. The leave strips were harvested in 1994 and scattered seed trees were left. Age of stand is from the cutting reports. Four deer exclosures within this stand that were checked.
 - Exclosure # 6: 22 cedar stems 3'-5' (red maple, black spruce, ash, tamarack)
 - Exclosure # 7: 17 cedar stems 2'-4' (paper birch, tamarack, white spruce, red osier)
 - Exclosure # 9: 20 cedar stems 3'-5' (black spruce, tamarack, ash, aspen)
 - Exclosure # 10: 11 cedar stems 2'-4' (black spruce, tamarack, paper birch, tag alder)

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Sapling	2	
Black Spruce	20	Sapling	2	
Northern White Cedar	50	Pole	7	126
Tamarack	20	Sapling	2	27

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	5 - 10 feet	Sapling
Black Spruce	Medium	5 - 10 feet	Sapling
Tamarack	High	5 - 10 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Ash	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
15	6120 - Lowland Cedar	Poletimber Medium	7.8	126	Unspecified	N/A	Stand was treated in 2001 and again in 2003-2004 as part of the Perkins Deer Yard Plan. This stand was treated with two techniques. The stand was first harvested, removing the good quality timber, then opened up more with dozer to get stand to a 50% crown cover. Western part of the stand is higher ground and has large diameter birch and maple. Appears to have been left as retention.																																																						
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16	6120 - Lowland Cedar	Poletimber Medium	99.2	126	Unspecified	N/A	Harvested in 2001-04, This area had the merchantable timber removed first then opened up more with the dozer. Crown cover is 50% or less. Lots of sapling sized black ash in the 2nd age. Five Deer Exclosures within this stand that were checked. - Exclosure #2: 16 cedar stems 2'-4' (white birch, red osier, tag alder) - Exclosure #4: 18 cedar stems 2'-4' (paper birch, balsam, tags alder) - Exclosure #11: 25 cedar stems 2'-4' (red maple, tag alder, balsam, red osier, ash) - Exclosure #12: 30+ cedar stems 3'-5' (tag alder) - Exclosure #13: 30+ cedar stems 1'-3' (ash, paper birch, tag alder, red maple, balsam)																																																						
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17	4140 - Other Upland Deciduous	Sawtimber Well	1.4	85	Unspecified	N/A	Small upland stand that is surrounded by lowland and private property.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21	6229 - Mixed lowland shrub	Nonstocked	43.7		Unspecified	No	Stand was cut in the winter from 1995-97. These were block cuts with no seed trees. some of these blocks are filling in with Tamarack, paper birch, tag alder, dogwood, spruce, ash, red maple and other trace species. Some blocks are filling in with more tag alder than anything else. Continue to monitor regen plots and exclosures. Eight deer exclosures in this stand checked: - Exclosure #3: 2 stems cedar 1' (red osier) - Exclosure #5: 25 stems cedar 2'-4' (paper birch, tamarack, tag alder) - Exclosure #8: 7 stems cedar 3'-5' (red osier, black spruce, tamarack) - Exclosure #14: 20 stems cedar 3'-6' (red osier, balm, ash, white spruce, white birch) - Exclosure #17: 17 stems cedar 3'-5' (tamarack, black spruce, tag alder, red osier) - Exclosure #19: 1 stem cedar 2' (red osier) - Exclosure #20: 25 stems cedar 4'-8' (ash, white birch, tag alder, red osier) - Exclosure #21: 6 stems cedar 1'-3' (red osier, tag alder, tamarack, red maple)
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22	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.4	85	81-110	N/A	Stand was treated in 1999, contract 330339301.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Pole/Log	9		Sugar Maple	Low	< 5 feet	Sapling
Red Maple	80	Pole/Log	9	85	Red Maple	Low	< 5 feet	Sapling
Quaking Aspen	5	Pole	9		Balsam Fir	Low	< 5 feet	Sapling
Balsam Poplar	5	Pole	9					
Balsam Fir	5	Pole	8					

23	42340 - Upland Spruce/Fir	Poletimber Poor	3.3	40	Unspecified	N/A	Upland just before heading into the deer yard. Decent amount of tamarack regenerating in the stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	2	Sapling	2		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Poplar	3	Sapling	2		Tamarack	Medium	5 - 10 feet	Sapling
Balsam Fir	45	Pole/Sapling	7	40				
White Spruce	40	Pole/Sapling	6					
Tamarack	10	Sapling	2					

24	6120 - Lowland Cedar	Poletimber Poor	15.6	126	Unspecified	N/A	Treated in winter of 2002-04. Merchantable timber was harvested and dozed some of the unmerchantable timber. Seed trees were left. Crown Closure was opened to less than 50%. One deer exclosure checked. - Exclosure #15: 8 cedar stems 1'-3' (white birch, balm, balsam, red maple)
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	100	Pole	7	126	Tag Alder	Medium	5 - 10 feet	Tall Shrub
					Black Ash	Low	5 - 10 feet	Sapling
					Red Maple	Low	5 - 10 feet	Sapling
					Paper Birch	Low	5 - 10 feet	Sapling
					Red Osier Dogwood	Low	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
25	6123 - Lowland Fir	Poletimber Well	20.4	40	Unspecified	N/A	Overall small diameter stand. It was strip cut in 1955, 1962, 1977-80. Leave strips heavier to balsam fir, Balm, black ash, paper birch: cut strips heavier to aspen, ash, and Fb. SW corner pole sized Tamarack, NW corner cedar with Tamarack/balsam fir.																																																
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26	6112 - Lowland Aspen	Poletimber Well	16.0	40	Unspecified	N/A	Stand was treated in the 1980s. Aspen, balm, balsam fir- north 2/3, south 1/3 is ash, balm, balsam fir, cedar and tamarack. There is smaller diameter saplings along the drainage.																																																
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27	6120 - Lowland Cedar	Poletimber Poor	41.2	126	Unspecified	N/A	Merchantable timber was harvested 2000-2001. Seed trees left. Area was also treated with dozer in areas, clumps of 8-12 trees were left.																																																
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28	6120 - Lowland Cedar	Sawtimber Medium	10.1	126	Unspecified	N/A	Stand was commercially harvested in 2000 to get the canopy closure to 50%. Stand contains a trace amount of red maple and paper birch.																																																
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29	6120 - Lowland Cedar	Poletimber Poor	48.3	126	Unspecified	N/A	Main winter logging road running east and west was harvested in 1975. The clearcut blocks were cut from 1995-1997. Residual blocks were cut during 97-99 with seed trees being left. In 2000-01 some areas were dozed to get canopy to 50%. Two deer exclosures checked in this stand: - Exclosure #16: 1 stem cedar (red osier, tag alder, ash) - Exclosure #18: 7 stems cedar 1'-2' (red osier, paper birch)																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
30	6120 - Lowland Cedar	Sapling Medium	5.2	51	Unspecified	N/A	Young cedar 15 - 20 feet tall, average dbh 3-5 inches.																																																												
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31	4130 - Aspen	Poletimber Well	75.5	31	Immature	N/A	Mature aspen, balm and Balsam fir were cut in 1990. Some areas of the stand contain denser spots of mature balsam fir. There is also some larger diameter red maple scattered throughout the stand.																																																												
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32	4139 - Aspen, Mixed Deciduous	Sawtimber Well	9.9	80	111-140	N/A	Nice stand of red maple and aspen. Quite a bit of beaver damage to trees along the west edge of the stand. Large maple checked for age.																																																												
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33	6120 - Lowland Cedar	Poletimber Poor	26.7	126	Unspecified	N/A	Stand treated in 1974 by strip cut method. Residual strips were harvested in 1997-98. The strips contain ash, tag alder, some paper birch and black spruce. Height of the regen is variable, roughly 5-10 feet.																																																												
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34	6233 - Wet Meadow	Nonstocked	7.2		Unspecified	No	Far east side is a pond, the rest is wet meadow, This used to be all pond but is now filling in.																																																												
35	4130 - Aspen	Poletimber Well	13.1	40	Unspecified	N/A	Treated in 1982. Would consider harvesting this stand for quality reasons and it will be very close to rotation age by the time harvest would occur. However, will not treat this period due to Perkins Deer Yard plan.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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36 6120 - Lowland Cedar Poletimber Well 21.4 126 Unspecified N/A Cedar with a second age class of ash. Stand has not been treated.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	8		Balsam Fir	Low	< 5 feet	Sapling
Balsam Poplar	10	Pole	9		Black Spruce	Low	< 5 feet	Sapling
Black Spruce	5	Pole	7		Black Ash	Medium	10 - 20 feet	Sapling
Northern White Cedar	50	Log/Pole	10	126	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Ash	25	Pole	7	80				
Balsam Fir	5	Pole	7					

37 6229 - Mixed lowland shrub Nonstocked 50.7 Unspecified No This stand was hydromowed in 2003-04. There was some scattered 3-5 inch white birch and cedar left. Filling in with tamarack, white birch, ash and tag alder. Most remains a lowland shrub stand.

38 4130 - Aspen Sapling Well 10.3 31 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	95	Sapling	4	31	Red Maple	Low	< 5 feet	Sapling
Balsam Poplar	5	Sapling	3		Quaking Aspen	Low	< 5 feet	Sapling
					Balsam Fir	Low	5 - 10 feet	Sapling
					Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub

39 6132 - Mixed Lowland Forest with Cedar Poletimber Well 15.1 126 81-110 N/A This is a variable stand with a small area of upland with more aspen and maple running through the stand. The rest of the stand is a mix of lowland aspen, ash, red maple and mixed conifers. Some small chunks were cut out of this stand as part of the North Perkins Sale in 1999.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	2	Log/Pole	10		White Spruce	Low	< 5 feet	Sapling
Quaking Aspen	10	Log/Pole	10		Black Ash	Medium	10 - 20 feet	Sapling
Balsam Poplar	8	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	5	Pole	8					
White Spruce	5	Log/Pole	10					
Northern White Cedar	35	Pole	8	126				
Black Ash	25	Pole	7	80				
Red Maple	10	Pole	8					

40 4130 - Aspen Sapling Well 11.3 22 Immature N/A This stand was treated in 1999. Lots of ash regen in this stand. Some areas are more dominated by sub-canopy type/sapling sized trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	70	Sapling/Pole	4	22	Red Maple	Medium	10 - 20 feet	Sapling
Balsam Poplar	20	Pole/Sapling	5		Paper Birch	Low	10 - 20 feet	Sapling
Balsam Fir	5	Pole/Sapling	6		Balsam Fir	Low	< 5 feet	Sapling
Northern White Cedar	5	Pole	7		Black Ash	High	10 - 20 feet	Sapling
					Tag Alder	Medium	10 - 20 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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41 6132 - Mixed Lowland Forest with Cedar Poletimber Well 20.2 126 81-110 N/A Stand has not been treated. Mix of cedar and lowland hardwoods.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	3	Log/Pole	10		Black Ash	High	5 - 10 feet	Sapling
Balsam Poplar	5	Pole	5					
White Spruce	2	Log/Pole	10					
Northern White Cedar	45	Pole	8	126				
Black Ash	40	Pole	7	75				
Balsam Fir	5	Pole/Sapling	7					

42 4199 - Other Mixed Upland Deciduous Sawtimber Well 5.7 87 111-140 N/A Large mature timber in this stand. Many trees beginning to fall apart and lose value. Difficult to access.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Log/Pole	11	87	Red Maple	Low	5 - 10 feet	Sapling
Quaking Aspen	25	Log/Pole	11		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Poplar	10	Log/Pole	11		Ash (spp.)	Medium	5 - 10 feet	Sapling
Balsam Fir	10	Pole	8					
Paper Birch	10	Log	11					