



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42023

Entry Year 2021

Acreage: 1,113

County Luce

Management Area: Deer Park

Revision Date: 2019-08-30

Stand Examiner: Amy Douglass

Legal Description:

T49N R10W Sections 4-9.

Identified Planning Goals:

Timber, wildlife habitat and recreation are the main uses within this compartment. The overall goals are to maintain and enhance forest health, diversity and productivity of the area through sustainable, proper forest treatments. Treatments prescribed will help renew and utilize the forest resource and continue to enhance the quality of wildlife habitat.

Soil and topography:

Deer Park fine sand is the primary soil within the compartment on level to rolling ground. The area transitions to Rubicon sand along the southern boundary. A small portion of Crosswell-AuGres sands is located along the shores of Muskallonge Lake. There are steep sand banks located along the shore of Lake Superior.

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

A mix of state and private ownership extends across the compartment. Development is present on some of the private ownership, with a higher density along the northwest edge of the compartment. A corporate inholding of 160 acres lies within the compartment. Predominant land use in the area includes timber production and forest recreation.

Unique Natural Features:

The potential exists for several threatened and endangered flora and fauna, with piping plover habitat along the beach.

Archeological, Historical, and Cultural Features:

There are no known sites within the compartment, but may be nearby.

Special Management Designations or Considerations:

Piping plover habitat and Deer Park Non-dedicated natural area located along the Lake Superior shoreline.

Watershed and Fisheries Considerations:

Fisheries Values: None.

This compartment lies up against the Lake Superior shoreline. Fisheries has no concerns at this time.

Wildlife Habitat Considerations:

Compartment 23 lies along Lake Superior in north central Luce County in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection and lies within the Deer Park Management Area with American marten, Kirtland's warbler, and red crossbill as featured species. The compartment is dominated by pine types (red and jack) with a few oak stands along the northern portions of the compartment. Much of the jack pine is immature while much of the red pine is older. The compartment has high recreational use.

In a predominantly pine forested ecosystem, maintaining a variety of age and size classes and maintaining as much structural diversity as possible in managed stands will be important to achieving wildlife objectives. For example, retaining soft and hard mast producing species in harvested stands will help provide food sources, nest and den trees, and improve structural diversity. Leaving understory spruce and hemlock when it occurs will likewise increase structural diversity as will retaining non-pine species in pine stands. Diversity in red pine plantations will consist of hard mast retention and diversity in the red line trees. Wildlife species potentially using this compartment include white-tailed deer, black bear, coyote, and piping plover.

Mineral Resource and Development Concerns and/or Restrictions

No active sand/gravel pits exist within 6 miles, but there is likely some potential for sand within the compartment. There is no history of mineral leasing in the compartment. There is no known potential for metallic minerals in this area, and no known potential exists economic hydrocarbon production in the UP. The state does not own all mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

This compartment is located just east of Muskallonge Lake and County Road 407 (Deer Park Road). Lake Superior defines the north boundary of the compartment. The Rabbit Patch Road and County Road 410 East form the south boundary of the compartment. The Coast Guard Road runs east/west through the center of the compartment and is a poor sand road. Numerous two-track roads provide additional access to many areas of the compartment, including developments on private lands. Deep, loose sands and several unstable hills make many of the forest roads difficult to traverse with wheeled-vehicles.

Survey Needs:

The NE1/16 and the NW1/16 of Section 9 are needed. Corners may be present, but no corner records found.

Recreational Facilities and Opportunities:

The Two Hearted ORV Trail cuts through the southeast corner of this compartment. The North Country Trail runs through the northern portion of the entire compartment, connecting to Muskallonge State Park to the west. Several well-used dispersed camping sites are found along the North Country Trail and Lake Superior shoreline. The Lake Superior beach and adjacent stands provide exceptional vistas and non-motorized recreational opportunities. Opportunities for forest recreation include hunting, fishing, berry picking, hiking, dispersed camping, wildlife/nature viewing, snowmobiling, mountain biking, agate picking and ORV riding.

Fire Protection:

This compartment is part of the Two Hearted Zone Dispatch area. Large fire runs are possible with the hazard fuel component in this compartment and long response times, which makes the risk to private properties high. Access for heavy wheeled equipment is good because of dry sand ground and good two track network, except in areas of unstable hills and loose sand.

Additional Compartment Information:

The following reports from the Inventory are attached:

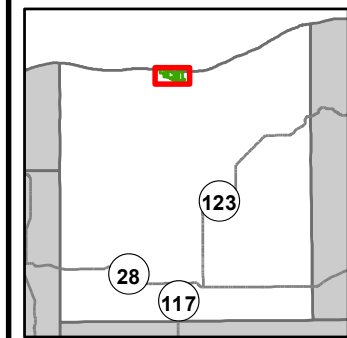
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

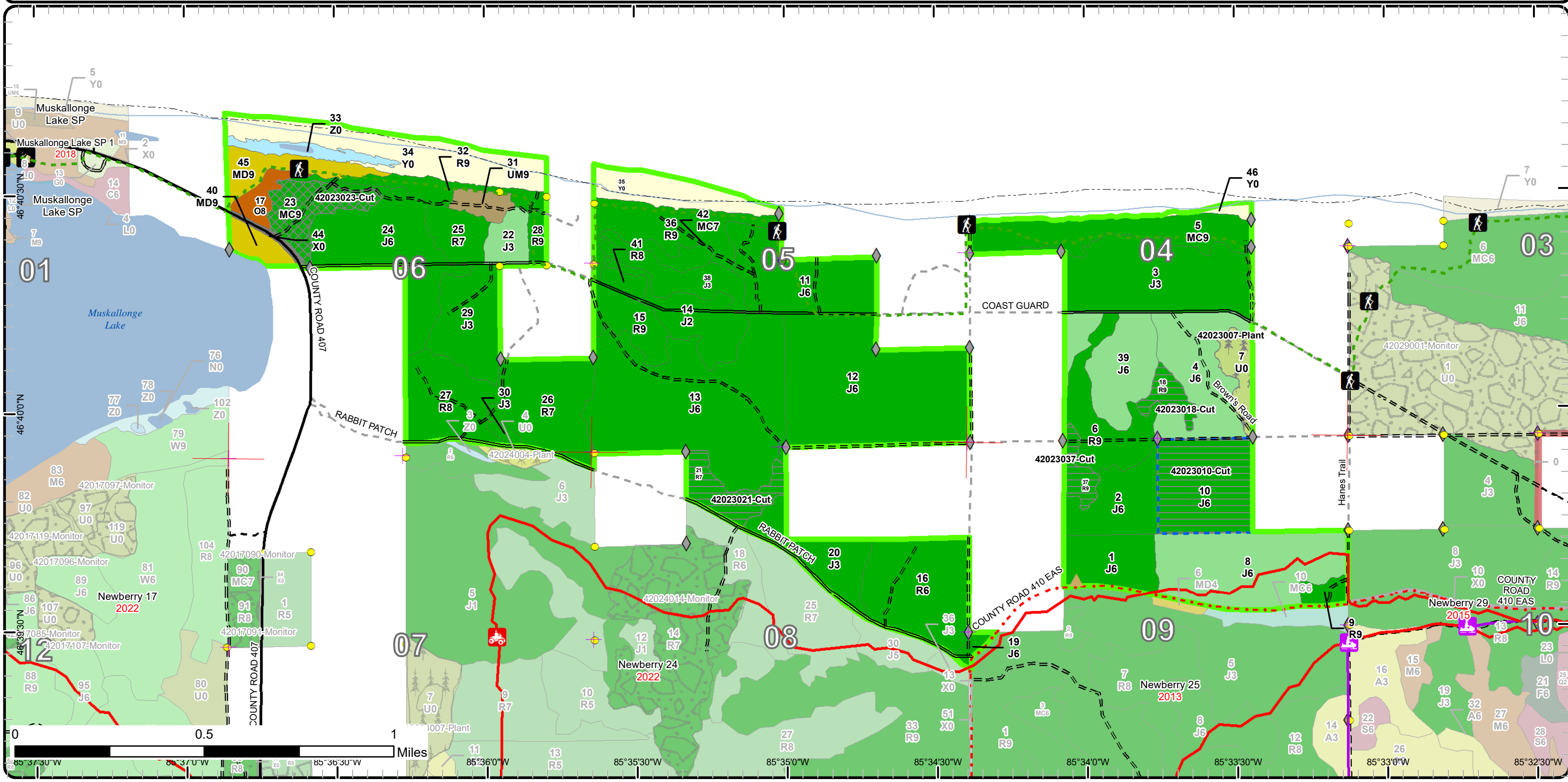
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 23
 T49N, R10W, Sec. 4-9
 County: Luce
 Unit: Newberry
 Mgmt Area: Deer Park
 YOE: 2021
 Acres: 1,113 GIS Calculated
 Examiner: Amy Douglass
 Map Revised: 12/19/2019
 Map Phase: Post-Review

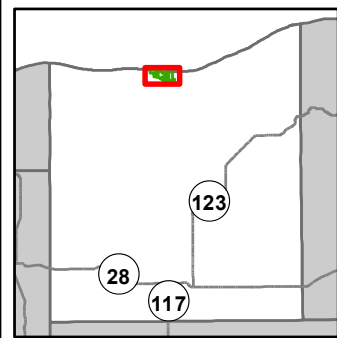


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- 🚶 Hiking Trails
- 🚙 ORV Trails
- 🚗 Snowmobile Trails
- Designated Hiking Trails
- Designated ATV
- Designated Snowmobile Trails
- 🚽 Toilet
- ▲ Berms
- Lake/Pond
- Shoreline
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Planting (tree species)
- Clearcut (w/Reserves)
- 412 - Oak Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 500 - Water
- 710 - Sand/Soil

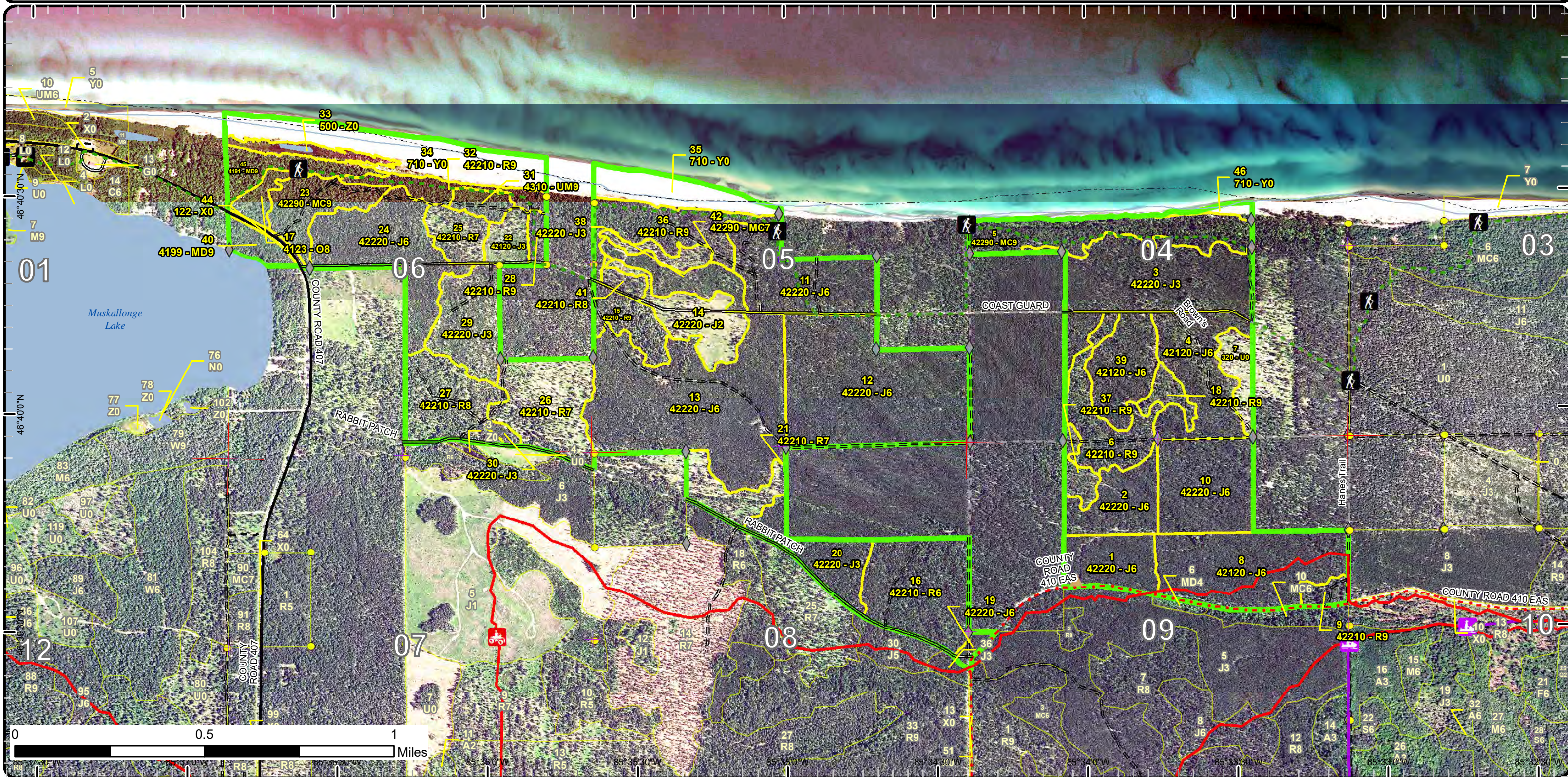


Stand Boundary Map

Compartment: 23
 T49N, R10W, Sec. 4-9
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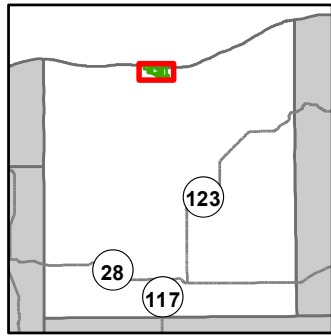


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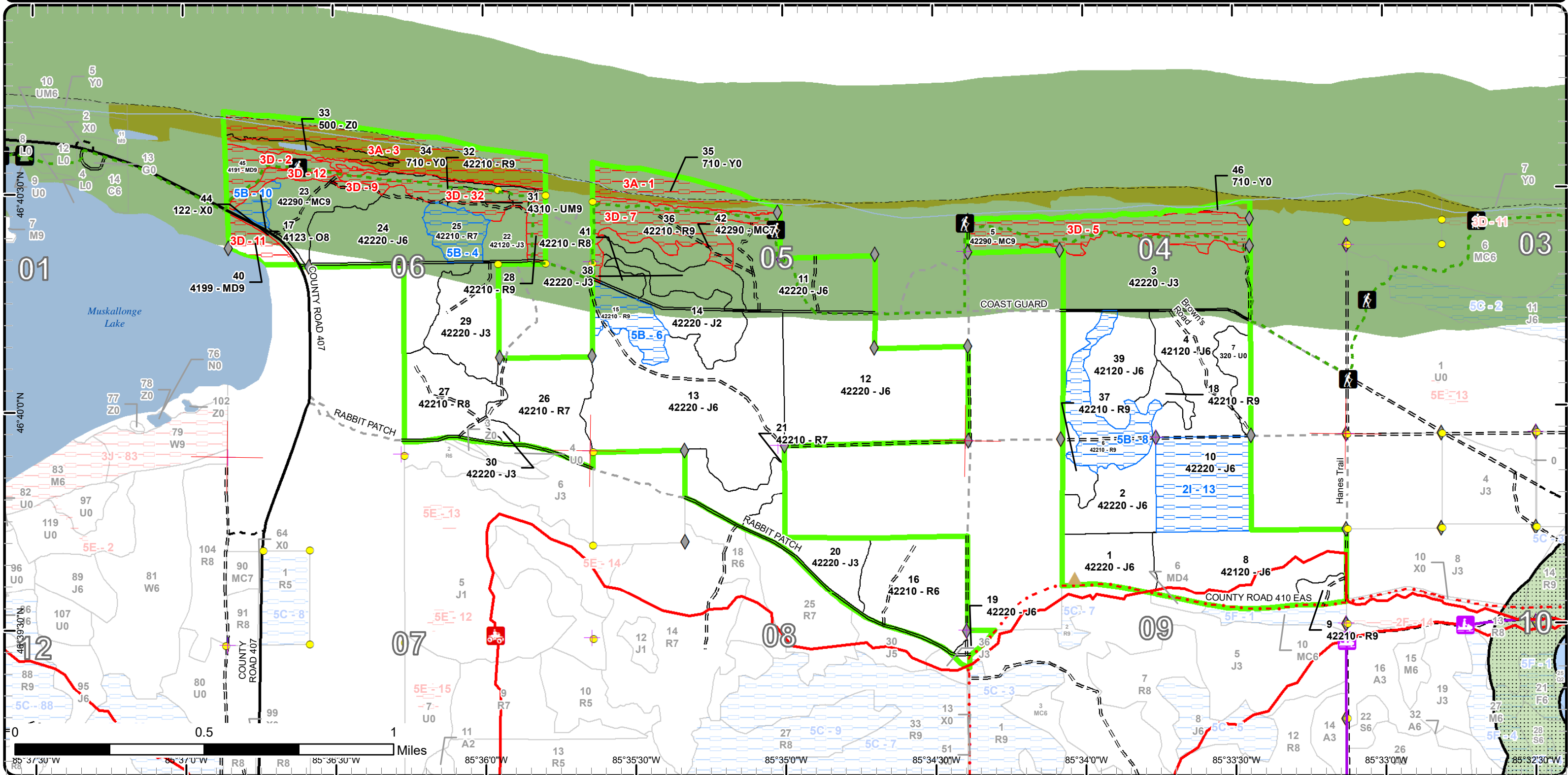


Special Conservation Areas & Site Conditions Map

Compartment: 23
 T49N, R10W, Sec. 4-9
 County: Luce
 Unit: Newberry
 Mgmt Area: Deer Park
 YOE: 2021
 Acres: 1,113 GIS Calculated
 Examiner: Amy Douglass
 Map Revised: 12/19/2019
 Map Phase: Post-Review



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- 🚙 Snowmobile Trails
- - - Designated Hiking Trails
- Designated ATV
- Designated Snowmobile Trails
- Toilet
- ▲ Berms
- Lake/Pond
- Shoreline
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- Stand Boundaries
- SCA
- Natural Rivers Zoning District
- Critical Coastal Habitat (Piping Plover)
- Non-Dedicated Natural Areas and National Natural Landmarks
- Recreational/Scenic Value Area



Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 23

Year of Entry 2021

Amy Douglass : Examiner



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
Jack Pine	0	31	0	45	28	562	0	0	0	0	0	0	0	0	0	0	0	0	666
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	23
Natural Mixed Pines	0	0	0	0	0	0	0	0	7	0	22	0	0	0	0	0	0	37	66
Oak	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	7
Red Pine	0	0	0	0	0	0	46	0	81	57	6	5	61	0	0	0	0	0	256
Sand, Soil	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	7
Upland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	89	31	0	45	28	562	46	0	88	57	28	42	61	0	0	0	0	37	1114



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 23
Total Compartment Acres: 1,113

Commercial Harvest - 49
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
Jack Pine	40	0	0	0	0	0	0	0	0	40
Natural Mixed Pines	0	19	0	0	0	0	0	0	0	19
Red Pine	30	0	0	0	0	0	0	0	0	30
Total	70	19	0	0	0	0	0	0	0	89

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	89	0	10	0	0	0	0	0	0	100
Next Step	0	110	70	0	0	140	0	0	0	321
Total	89	110	81	0	0	140	0	0	0	420



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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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Approved Treatments:

7	42023007-Plant	10.4	320 - Upland Shrub	Nonstocked	0	Unspecified	Planting	Interplant	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Interplant without trenches where needed to supplement natural jack pine. <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> Jack pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2019</p>											
10	42023010-Cut	40.2	42220 - Natural Jack Pine	Poletimber Well	49	Unspecified	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut leaving two retention pockets, with maximum diversity. Leave oak, if present. <u>Specs:</u> <u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant <u>Treatments:</u> <u>Acceptable</u> Jack pine. <u>Regen:</u> <u>Other</u> Attempting to start to break up jack pine age classes in the area. <u>Comment:</u> <u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2020</p>											
18	42023018-Cut	6.7	42210 - Natural Red Pine	Sawtimber Well	82	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut all species. No retention due to small acreage. Leave oak, if present. Leave a variety of species in the red line. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> Red pine <u>Regen:</u> <u>Other</u> Follow harvest with trenching and planting to red pine. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
21 42023021-Cut	16.3	42210 - Natural Red Pine	Sawtimber Poor	84	1-50	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut standing residual from last cut. Leave small pocket retention. Leave oak if present.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Trenching</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine with red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
23 42023023-Cut	19.0	42290 - Natural Mixed Pine	Sawtimber Well	95	111-140	Harvest	Group Selection	429 - Mixed Upland Conifers	Uneven-Aged	No
<p><u>Prescription</u> Cut trees in groups approximately twice the height of mature trees. Using the femelschlag method, cut expanding gaps every 10-20 years cutting approximately 20% of the stand each time and leaving up to 10% retention within the cut patches. Cut patches should avoid large diameter oak. Harvest area will be reduced due to gap cuts.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of current species present.</p> <p><u>Regen:</u></p> <p><u>Other</u> Use the E/W portion of the road as the boundary and continue westerly for the north line of treatment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
37 42023037-Cut	7.0	42210 - Natural Red Pine	Sawtimber Well	82	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut all species. No retention due to small acreage. Leave oak, if present. Leave a variety of species in the red line.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Trench and plant to red pine following harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment 99.6
Acreage Proposed:

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 23
Year of Entry: 2021



Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions				
		With Condition				2I	5B	3A	3D	
666	626	40		0		Jack Pine	40			0
23	0	0		23		Mixed Upland Deciduous				23
66	26	0		39		Natural Mixed Pines				39
7	0	4		3		Oak		4		3
255	155	54		46		Red Pine		54		46
68	3	0		65		Sand, Soil			64	1
7	0	0		7		Upland Mixed Forest				7
10	10	0		0		Upland Shrub				
3	3	0		0		Urban				
8	0	0		8		Water			8	0
1,113	823	99		192		Total Forested Acres	40	58	72	119
	74%	9%		17%		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	3A: Conservation Values incompatible with harvest at this time	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: non dedicated natural area							
2	Unavailable	3D: Recreational / Scenic values	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: NCT and Lake Superior shoreline							

Report 4 – Site Conditions

Newberry Mgt. Unit
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Compartment: 23
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3	Unavailable	3A: Conservation Values incompatible with harvest at this time	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Non-dedicated natural area - Deer Park.							
4	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3D: Recreational / Scenic values	37	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: NCT and Lake Superior shoreline. near non-dedicated natural area, and piping plover							
6	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3D: Recreational / Scenic values	30	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: NCT and Lake Superior shoreline. Non-dedicated natural area.							
8	Available	5B: Maintain for regeneration purposes	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
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9	Unavailable	3D: Recreational / Scenic values	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5B: Maintain for regeneration purposes	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3D: Recreational / Scenic values	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3D: Recreational / Scenic values	3	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Along NCT							
13	Available	2I: Survey needed	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	3D: Recreational / Scenic values	26	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: NCT and Lake Superior shoreline. Includes scattered campsites along the NCT.							

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
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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	42220 - Natural Jack Pine	Poletimber Well	22.2	42	Unspecified	N/A	Occasional white birch and oak. Just coming into pole size. 1-3 sticks (2 stick average).FTP C-148 for scarification complete 7/5/1977.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		90	Pole/Sapling	6	42				
Red Pine		8	Log	12					
2	42220 - Natural Jack Pine	Poletimber Well	24.3	42	Unspecified	N/A	Cut in 1973, sale #6-73A; scarified 1974 (C-105). Seeded in 1976.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		95	Pole/Sapling	5	42				
3	42220 - Natural Jack Pine	Sapling Well	57.6	40	Unspecified	N/A	Thick regeneration with smaller dbh. 1 stick average. Stand scarified in 1979. Residual red and white pine overstory trees present. Red maple and white pine saplings present. Cut in 1979 under permit #13-78A and #27-79. Scarified in July 1979 (C-182).		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		85	Sapling/Pole	4	40				
Red Pine		10	Log	12					
4	42120 - Planted Jack Pine	Poletimber Well	38.3	46	Unspecified	N/A	Red pine patches scattered along road thru middle of stand. Cut in 1969; scarified 1970 (No. 51). Planted in 1973. Mix of planted and natural. 1-3 stick average.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		75	Pole/Sapling	6	46				
Red Pine		20	Pole/Log	8					
5	42290 - Natural Mixed Pine	Sawtimber Well	36.9	110	141-170	N/A	A steep embankment divides this stand. This embankment runs parallel to the shoreline. The North Country Trail extends through this stand, also running parallel to the shoreline. At least one dispersed camping site falls within stand. The trail does drop over the embankment comes very close to the beachline in several places. Stand provides scenic vistas of the Lake. Oak and black spruce are overstory associates. Red maple, black spruce and white pine saplings are present. Stand composition and structure is varied, with patches of mature red pine and mixed pine above the escarpment, and maple and birch sub-stands below.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		50	Log/XLog	16	110	White Pine	High	Variable	Sapling
Red Pine		30	Log	14		Black Spruce	Low	Variable	Sapling
Paper Birch		20	Pole/Log	9					
6	42210 - Natural Red Pine	Sawtimber Well	26.6	82	81-110	N/A	Red pine over jack pine poles. Infrequent older jack pine. Patches of J2/R5. Some areas with higher concentrations of larger red pine sawtimber. Understory jack pine needs additional time before any harvest to increase in size. White pine and red maple trees in overstory. Red maple saplings present. Cut in 1973 on permit # 6-73A.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		60	Log/Pole	12	82	White Pine	Low	Variable	Sapling
Jack Pine		35	Pole/Sapling	5	44	Red Pine	Low	Variable	Sapling
7	320 - Upland Shrub	Nonstocked	10.4	0	Unspecified	4222 - Natural Jack Pine	Stand final harvested as sale #003-11-01, Coast Guard Patches Pine. Completed 04/30/12. Scarification completed summer 2012. Regen 2016: 513 TPA of jack pine. Residual BA of 20 to 30. 2019: patchy JP regen ~3' tall.		
Sub-Canopy Species		Density	Avg. Height	Size					
Jack Pine		Medium	< 5 feet	Sapling					
Red Pine		Low	>20 feet	Log					
8	42120 - Planted Jack Pine	Poletimber Well	57.8	42	Unspecified	N/A	ORV trail passes through stand. Occasional WB and oak. Just coming into pole size. 1-3 sticks (2 stick average). Cut in 1974 under permit #5-74A. Scarified in 1975 (C-115). Planted in 1977.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		90	Pole/Sapling	6	42				
Red Pine		8	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
9	42210 - Natural Red Pine	Sawtimber Well	5.5	94	81-110	N/A	Variable DBH. ORV trail follows forest road along east side of stand. Red maple, white pine and red pine saplings present. F understory is black spruce. White birch, oak and jack pine poles found. Deer Park Sand. Was part of 1974 timber sale under permit #5-74A. Scarified in 1975 (C-115).																												
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10	42220 - Natural Jack Pine	Poletimber Well	40.2	49	Unspecified	N/A	Not much difference between adjacent stands. 2-3 stick average. Cut in 1969; scarified in 1970 (No. 50). Wooden post and 4 BTs (Lewicki) at NW corner of stand, just north of abandoned forest road.																												
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11	42220 - Natural Jack Pine	Poletimber Well	40.9	44	Unspecified	N/A	North Country Trail passes through stand. White pine and red pine in overstory. White pine, red pine, oak, red maple, white birch and black spruce saplings present. Cut in 1974 on permit #9-73A. Scarified in 1975 (C-117). 2 stick average.																												
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12	42220 - Natural Jack Pine	Poletimber Well	93.2	40	Unspecified	N/A	North Country Trail follows the Coast Guard Road along north edge of stand. White pine, white birch and red pine are overstory associates. Red maple saplings present. Cut in 1978 under permit #6-77A; scarified in 1979 (C-174). 1-2 stick (2 stick average).																												
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13	42220 - Natural Jack Pine	Poletimber Well	107.0	42	Unspecified	N/A	Cut in 1976 under permit #13-75A; scarified in 1977 (C-137). 2 stick average.																												
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14	42220 - Natural Jack Pine	Sapling Medium	22.4	7	Immature	N/A	Stand harvested via final harvest as sale #006-11-01, Ben's Last Stand Pine. Completed 04/30/2012. Scarification completed summer 2012. Regen 2016: Average TPA for all stands in Ben's Last Stand Pine Sale. 126 TPA of jack pine, 207 TPA of red oak, 108 TPA of white pine, and 351 TPA of red maple. Residual BA of 60. 2019: JP ~ 3' - 4' tall. Full stocking.																												
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15	42210 - Natural Red Pine	Sawtimber Well	15.0	110	81-110	N/A	Red pine/white pine logs over jack pine poles (2 sticks). Cut in 1976 under permit #13-75A; scarified in 1977 (C-137).																												
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16	42210 - Natural Red Pine	Poletimber Well	45.7	53	81-110	N/A	Variable diameter patches within stand (48-75 years old). White birch and oak poles are overstory associates. Oak, white birch and red maple saplings are present. Very heavy knots/whorls on red pine. Many submerchantable pine stems. Small patch of larger red pine at a higher stocking level along Rabbit Patch Road.																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
17	4123 - Red Oak	Sawtimber Medium	7.1	100	81-110	N/A	Thick balsam (sapling to small pole) understory. Scattered overstory.																																												
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18	42210 - Natural Red Pine	Sawtimber Well	6.7	82	81-110	N/A	White pine and jack pine are overstory associates. Red maple, red pine and white pine saplings present. Patches with J2 and W1 understory.																																												
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19	42220 - Natural Jack Pine	Poletimber Well	3.0	36	Unspecified	N/A	Intersection of Rabbit Patch Road and County Road 410. The stand was part of sale #23-79, scarified with FTP #42-38 in 1979. The eastern portion of the stand was planted in 1983 under FTP 42-138. Averages 2 sticks tall.																																												
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20	42220 - Natural Jack Pine	Sapling Well	22.5	35	Unspecified	N/A	On the verge of pole size. 0-1 stick average. Cut in 1983, permit #007-81; scarified in 1984, FTP 42-95.																																												
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21	42210 - Natural Red Pine	Sawtimber Poor	16.3	84	1-50	N/A	Scattered, patchy RP residual (1-50 BA; locally higher). Check for JP regen in snow-free conditions (some JP peaking up thru snow). Steeper north facing slope located to north side of stand. 5/8/19: Very little JP regeneration (trace to low density). Stand harvested via final harvest as sale #006-11-01, Ben's Last Stand Pine. Completed 04/30/2012. Scarification completed summer 2012. Regen 2016: Average TPA for all stands in Ben's Last Stand Pine Sale. 126 TPA of jack pine, 207 TPA of red oak, 108 TPA of white pine, and 351 TPA of red maple. Residual BA of 60.																																												
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22	42120 - Planted Jack Pine	Sapling Well	9.4	9	Immature	N/A	JP 10-20' tall. Occasional birch and oak. Stand harvested as "Rabbit Patch Jack Pine" timber sale (010-01-01). Cutting completed 11/2001 (unit 1). FTP42-544 completed 7/2002 w/scarification. Remainder of sale was closed out, reoffered and sold as new sale #008-04. Kuhr and Travis evaluated regeneration success July 2009 and found unsatisfactory results. Stand will be hand planted to jack pine in 2010. Stand was hand planted (roughly 8 acres) to jack pine in Spring 2010 (no trenching).																																												
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23	42290 - Natural Mixed Pine	Sawtimber Well	21.6	95	111-140	N/A	2019: Variable stand - both in diameters and density. Occasional jack pine and white birch. Variable density understory. 2009: Red oak sawtimber-sized trees present. Understory is quite mixed and substantial = F2/O2/W1. Oak regen is primarily around 1 foot tall with some taller saplings. White pine saplings are 5' to 10' tall. Red maple, fir, black spruce and white birch saplings found. Bigtooth aspen, jack pine, white birch and black spruce poles are overstory associates. Forest road passing through stand provides access to several dispersed camping sites along Lake Superior.																																												
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24	42220 - Natural Jack Pine	Poletimber Well	48.0	45	Unspecified	N/A	Pole size with some saps still present. 1-3 sticks (2 stick average). Occasional oak. Cut in 1972-73; scarified in August 1973 (C-102).																																		
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25	42210 - Natural Red Pine	Sawtimber Poor	12.6	74	1-50	N/A	More residual than stand to the east (stand 22) and regeneration is more scattered. JP averages 2" dbh. Higher BA residual has little regen underneath. These stands were combined prior to cutting, but this side has higher residual and was not planted. Stand harvested as "Rabbit Patch Jack Pine" timber sale (010-01-01). Cutting completed 11/2001 (unit 1). FTP42-544 completed 7/2002 w/scarification. Remainder of sale was closed out, reoffered and sold as new sale #008-04.																																		
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26	42210 - Natural Red Pine	Sawtimber Poor	37.3	73	1-50	N/A	Variable residual BA (1 - 50 BA; locally higher). Nice JP regen (~10' tall). Sale #008-04-01 "Rabbit Patch Jack Pine". Sale complete 05/17/05. Scarification (42-544) completed 11/3/2006. Long, narrow inclusion of R6 along Rabbit Patch Road. White birch and white pine poles present. Red maple and black spruce saplings found. Site has some topographic changes.																																		
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27	42210 - Natural Red Pine	Sawtimber Medium	31.3	73	81-110	N/A	Stand harvested via thinning as sale #006-11-01, Ben's Last Stand Pine. Completed 04/30/2012. Occasional white birch and spruce. Lots of WP small poles.																																		
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28	42210 - Natural Red Pine	Sawtimber Well	4.4	110	111-140	N/A	North Country Trail runs along west side of stand. Blue line is run on east side with T-posts along the line. Some jack pine is mixed in, but most have died. Variable density understory.																																		
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29	42220 - Natural Jack Pine	Sapling Well	28.8	24	Immature	N/A	Thick regeneration. 2-3" dbh; 20-30' tall. Red pine residual scattered across site. Oak poles found. Cut in 1994 via final harvest, Coast Guard Road Jack Pine, #025-91. TCR 11-10-94. FTP for scarification 42-362, but unable to find record of scarification.																																		
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30	42220 - Natural Jack Pine	Sapling Well	2.1	35	Unspecified	N/A	On the verge of pole size. Scattered residual red pine poles on site. Cut in 1983, Block 1, #007-81. TCR 1-23-84. Scarified in 1984 under FTP 42-95.																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
31	4310 - Pine, Oak Mix	Sawtimber Well	6.8	101	81-110	N/A	Oak/pine mix. Patches with heavy oak regeneration. This layer is very apparent in the fall with changing foliage colors.																																												
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32	42210 - Natural Red Pine	Sawtimber Well	12.4	110	111-140	N/A	North Country Trail passes through stand and runs along bluff edge. Steep, long, north-facing slope parallels the beach and forms north boundary of stand. Various trails branch off the NCT to provide beach access for hikers/campers. Several dispersed camping sites are situated close to the shoreline. White birch poles are present. Red maple and oak saplings found. Area provides some exceptional views of Lake Superior and beach. There is a meander corner located on the east end of stand.																																												
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33	500 - Water	Nonstocked	8.2		Unspecified	No	Water between woods and beach. Some parts may dry out during the summer.																																												
34	710 - Sand, Soil	Nonstocked	44.0		Unspecified	No	Lake Superior Beach.																																												
35	710 - Sand, Soil	Nonstocked	21.2		Unspecified	No	Lake Superior Beach.																																												
36	42210 - Natural Red Pine	Sawtimber Well	29.5	110	111-140	N/A	North Country trail extends through stand. Several dispersed camping sites found throughout stand. Jack pine is overstory associate. Variable understory density. Black spruce, fir, white birch, red maple, red pine, oak and white pine saplings present. Small patches of J2/R1. Steep north-facing escarpment parallels shoreline.																																												
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37	42210 - Natural Red Pine	Sawtimber Well	7.0	82	111-140	N/A	Red oak and white birch are overstory associates. Black spruce, red maple and red pine saplings present. 18" Dbh red pine witness tree on south side of two-track, west end of trail. Stand harvested via selection cut as sale #003-11-01, Coast Guard Patches Pine. Completed 04/30/12. Regen 2016: 587 TPA of white pine, 97 TPA of red pine. Residual BA of 90.																																												
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38	42220 - Natural Jack Pine	Sapling Well	16.1	26	Immature	N/A	Cut completed on 5-10-93. Timber Sale #003-92-01, Pathway Jack Pine. Scarified in 1993 under FTP 42-305. Red pine and white birch overstory trees remain. Red pine saplings present. Thick regeneration.																																												
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39	42120 - Planted Jack Pine	Poletimber Well	32.4	42	Unspecified	N/A	Scotch pine saplings and small poles are mixed in with the jack pine to the north, along Coast Guard Road. Mix of planted and natural. 1-2 sticks tall. Cut in 1973, sale #6-73A; scarified 1974 (C-105). Planted in 1977.																																												
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40	4199 - Other Mixed Upland Deciduous	Sawtimber Well	7.9	100	81-110	N/A	Muskallonge Lake forms western half of the southern boundary of stand. The eastern half of the southern boundary and the west boundary of the stand are adjacent to private parcels. The stand's northern and eastern boundary is formed by Co Rd 407. Old road within stand that parallels the highway.																																	
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41	42210 - Natural Red Pine	Sawtimber Medium	4.6	100	51-80	N/A	Stand harvested via selection harvest as sale #006-11-01, Ben's Last Stand Pine. Completed 04/30/2012.																																	
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42	42290 - Natural Mixed Pine	Sawtimber Poor	7.1	74	1-50	N/A	Stand harvested via final harvest as sale #006-11-01, Ben's Last Stand Pine. Completed 04/30/2012. Scarification completed summer 2012 under FTP 42-783. Regen 2016: Average TPA for all stands in Ben's Last Stand Pine Sale. 126 TPA of jack pine, 207 TPA of red oak, 108 TPA of white pine, and 351 TPA of red maple. Residual BA of 60. 2019: JP 2-3' tall. Areas where residual is high have less regeneration. Decent regen on west end (lower BA residual).																																	
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44	122 - Road/Parking Lot	Nonstocked	2.7		Unspecified	No	County Road 407 right-of-way.																																	
45	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	15.0	100	81-110	N/A	OPIC - FMD: North Country Trail passes through stand. Black spruce, beech, white spruce, balsam fir, bigtooth aspen, jack pine and red pine are overstory associates. Oak reproduction common. North facing escarpment extends along north edge of stand. At least one dispersed campsite within stand. Scattered large (24" dbh) oak. Occasional birch, but most have died out. East finger is mainly below the bluff.																																	
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46	710 - Sand, Soil	Nonstocked	3.0		Unspecified	No	Lake Superior Beach.																																	