

# **Compartment Review Presentation**

Sault Ste. Marie Forest Management Unit

Compartment 45134 Entry Year 2022 Acreage: 1,873

Management Area: Mackinac Mix

**County Mackinac** 

**Revision Date: 2020-07-27** 

Stand Examiner: Andrew Krugh

**Legal Description:** 

T44N R7W Sections 20, 21, 29

### **Identified Planning Goals:**

This compartment is located between Caffey Corners and Fiborn Quarry. The majority of the compartment consists of a vast mixed conifer swamp, with a couple small islands of higher ground. Approximately half of section 29 is upland consisting of aspen, productive red pine and spruce plantations, and a grassy opening complex. Some aspen clones exist within the opening complex. The red pine and spruce stands need regular thinnings to promote growth and health. The small hardwood stand in the northwest corner of section 20 is part of a larger hardwood complex and is being treated with the adjacent compartments. A portable bridge will be needed to access this hardwood area. Regeneration has occurred in the lowland conifer stands where harvesting has taken place. The regeneration in these areas are becoming larger healthy areas and this process should be repeated.

#### Soil and topography:

Upland areas are level to slightly rolling consisting of Springlake loamy coarse sand. The associated soils on the upland islands within the swamp are Croswell sand and Paquin sand. The lowland swamps and bogs consist of Markey and Carbondale mucks, and Dawson and Loxley peats. The transitional hardwood stand is slightly rolling and consists of Markey-Spot-Finch complex.

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

The majority of the compartment is state owned with two private inholdings. Michigan Karst Conservancy owns the old Fiborn Quarry to the north. Some private camps and residences are to the south. The remaining surrounding ownership is state lands.

#### **Unique Natural Features:**

Fiborn Quarry lies adjacent to the north (and the NENE section 21). This area consists of karst features.

#### Archeological, Historical, and Cultural Features:

Lies adjacent to Fiborn Quarry and the old town of Fiborn

#### **Special Management Designations or Considerations:**

Harvesting operations may be limited to non-winter months along the snowmobile trail. ORV trails will be signed and kept clear daily during harvesting operations

#### Watershed and Fisheries Considerations:

Fisheries Concerns: No surface water is present in this compartment.

### Wildlife Habitat Considerations:

Compartment 134 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 is lowland forest, primarily cedar-dominated swamp. The cedar swamp as well as the bog on the southern edge both are parts of larger systems, both of which have upland islands or pockets in places. The primary uplands are on the south end of the compartment and include a larger opening that is slowly filling in through the process of succession, red pine plantation stands, and upland mixed forest. The far eastern portion of the compartment is part of deer wintering complex.

Wildlife objectives include maintaining the integrity of the swamp and the bog, lowland conifer cover in the swamp, and food sources for wildlife. The opening is in a good break-out location for wintering deer although it contains sandy soils and herbaceous resources are limited. It will be included as a site for treatment consideration although limited resources may mean such activities are conducted at other, higher priority sites. Sources of hard and soft mast, including oak, will be retained to provide food sources for deer, bear, and other species. Portions of the cedar swamp were treated historically and there is cedar regeneration that is established. Although this is not far from deer wintering complex, there

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is little evidence of deer browse here currently. Limited treatment has been proposed in an area with evidence of historic treatments to help release some of the regeneration and encourage new growth.

#### Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. Multiple active sand/gravel pits are within one mile south of the compartment. The former Fiborn Limestone Quarry is just northeast of the compartment. There is potential for both sand & gravel and high-purity bedrock limestone within the compartment. However, much of the compartment is covered by wetlands, which could inhibit surface development. There is potential for karst features in this area (e.g., caves, sinkholes). The mineral rights, including all sand & gravel and bedrock limestone, in the southern portion of the compartment were sold to Graymont in 2015. 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:**

Access is limited to Fiborn Quarry Road, a fair to good county road along the east side of section 21; and Cobe Road, which is a county road east of the compartment to Hiawatha Trail and a good DNR road through the compartment, accessing section 29. Cobe Road widened to accommodate the snowmobile trail

#### **Survey Needs:**

None at this time.

## **Recreational Facilities and Opportunities:**

The snowmobile trail follows the Cobe Road, and the ORV trail winds through the upland portions of Section 29. The snowmobile and ORV trails run through the upland area of the compartment. Primarily a deer and grouse hunting area. Good wildlife viewing area.

#### **Fire Protection:**

This is a low fire area due to the lowland swamps.

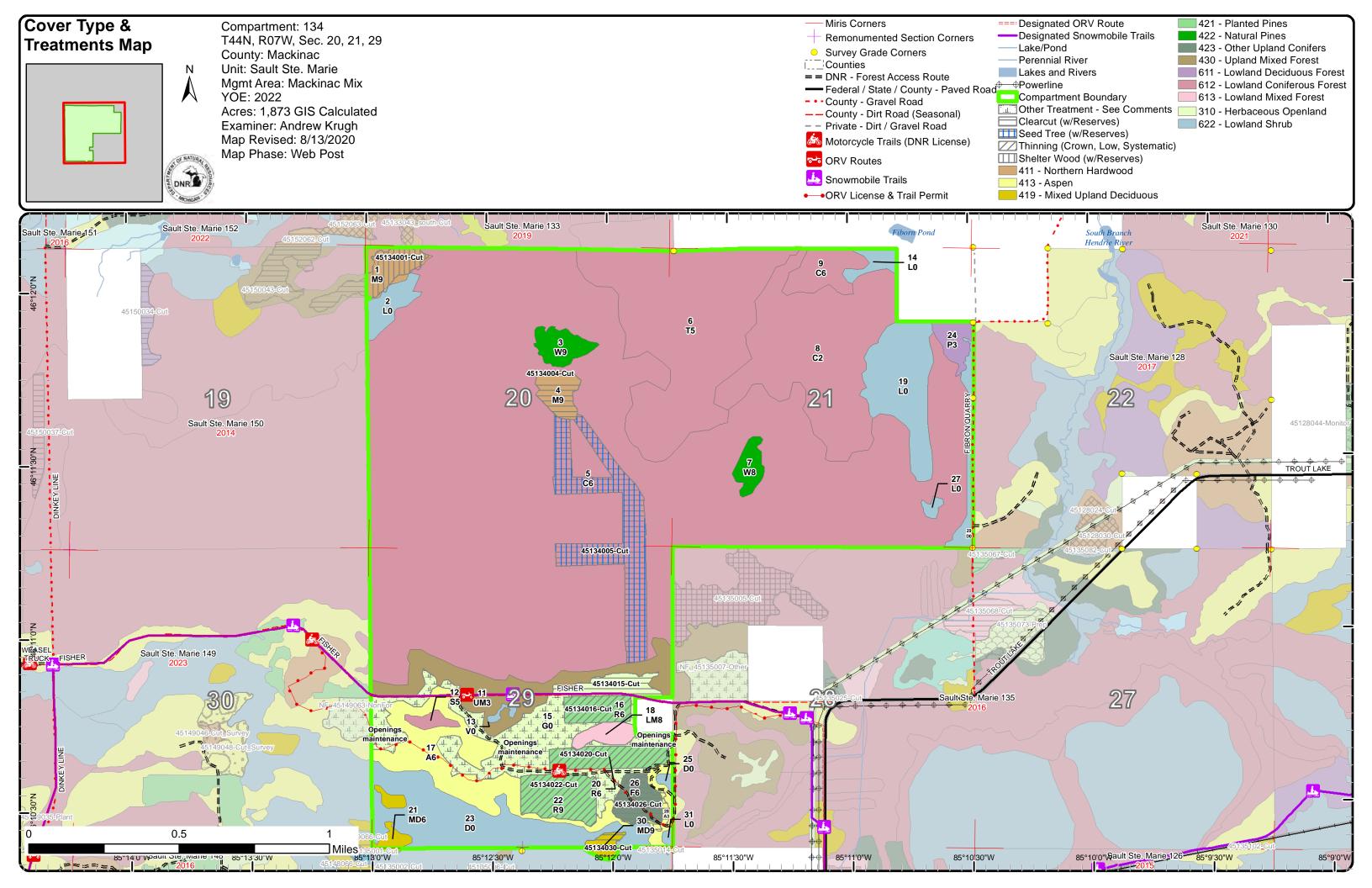
#### **Additional Compartment Information:**

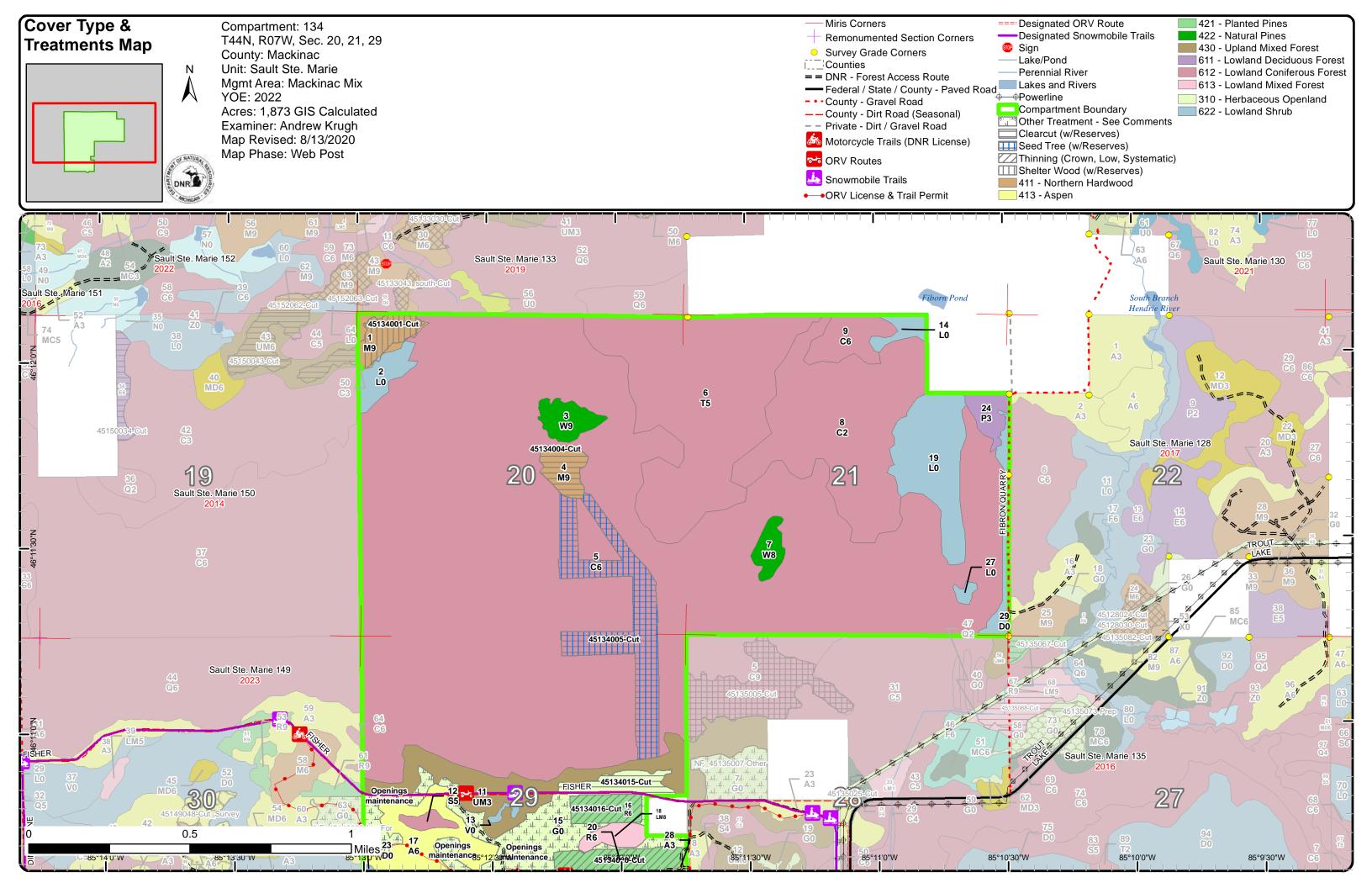
The following reports from the Inventory are attached:

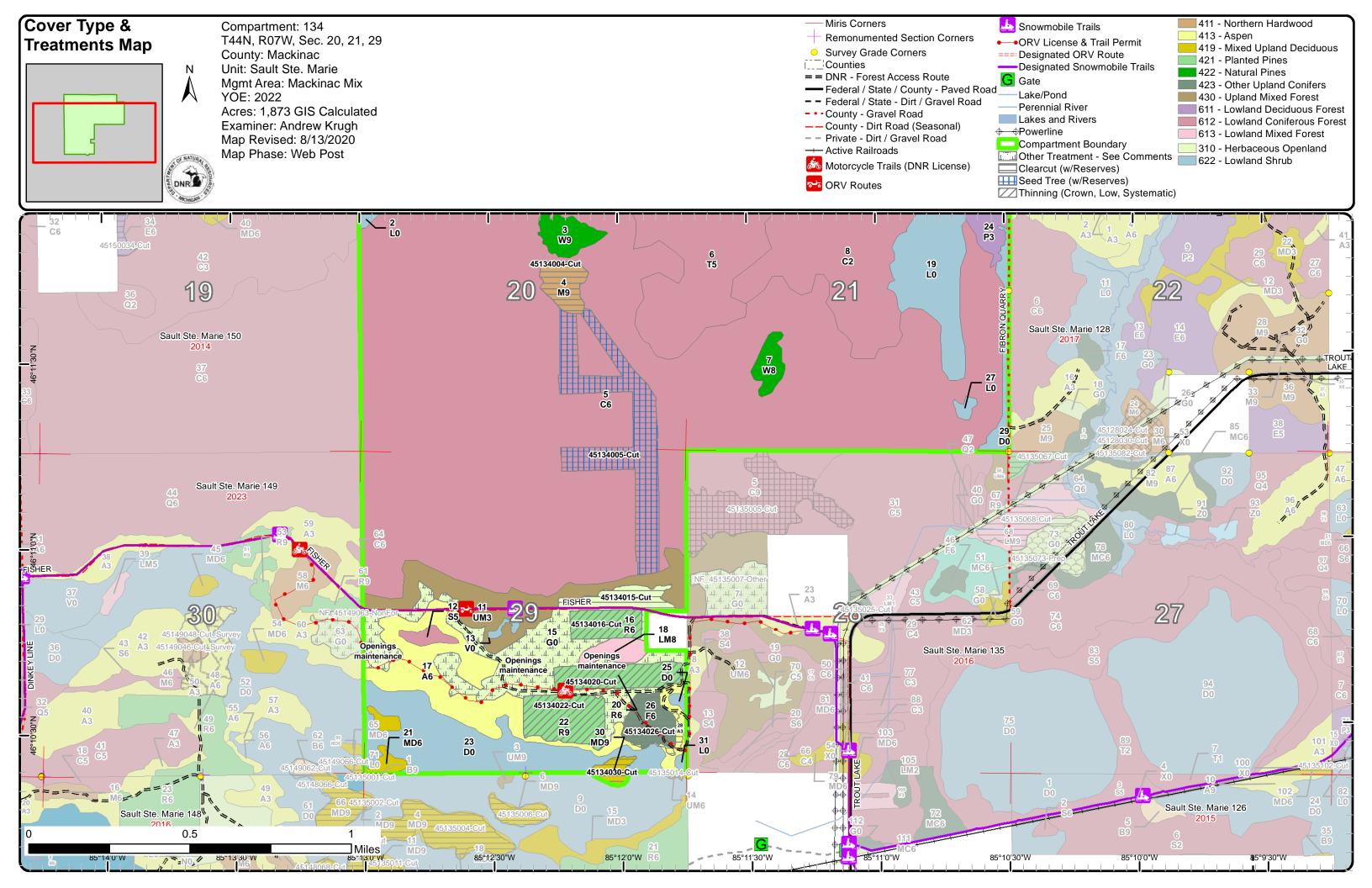
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

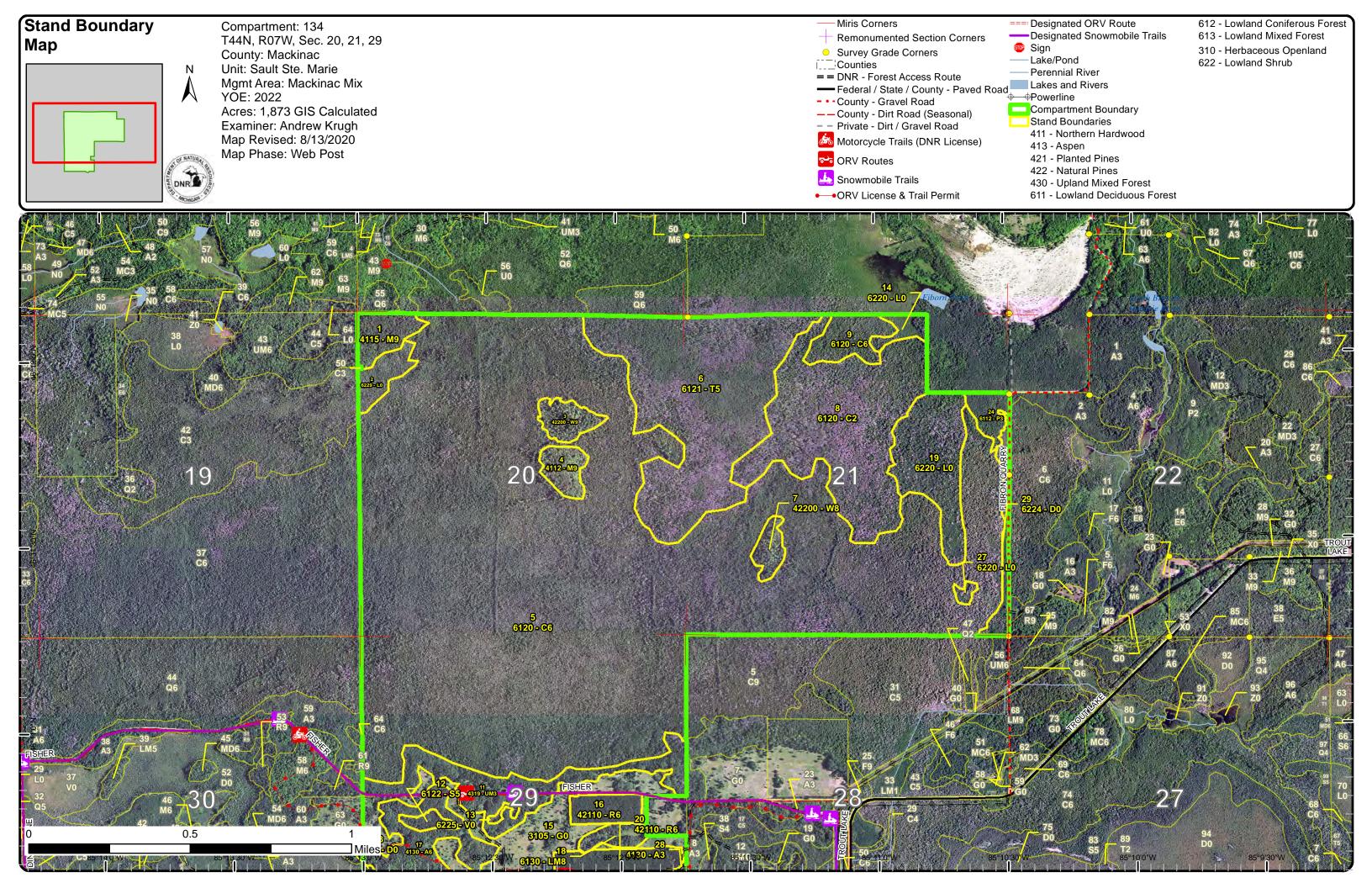
The following information is displayed, where pertinent, on the attached compartment maps:

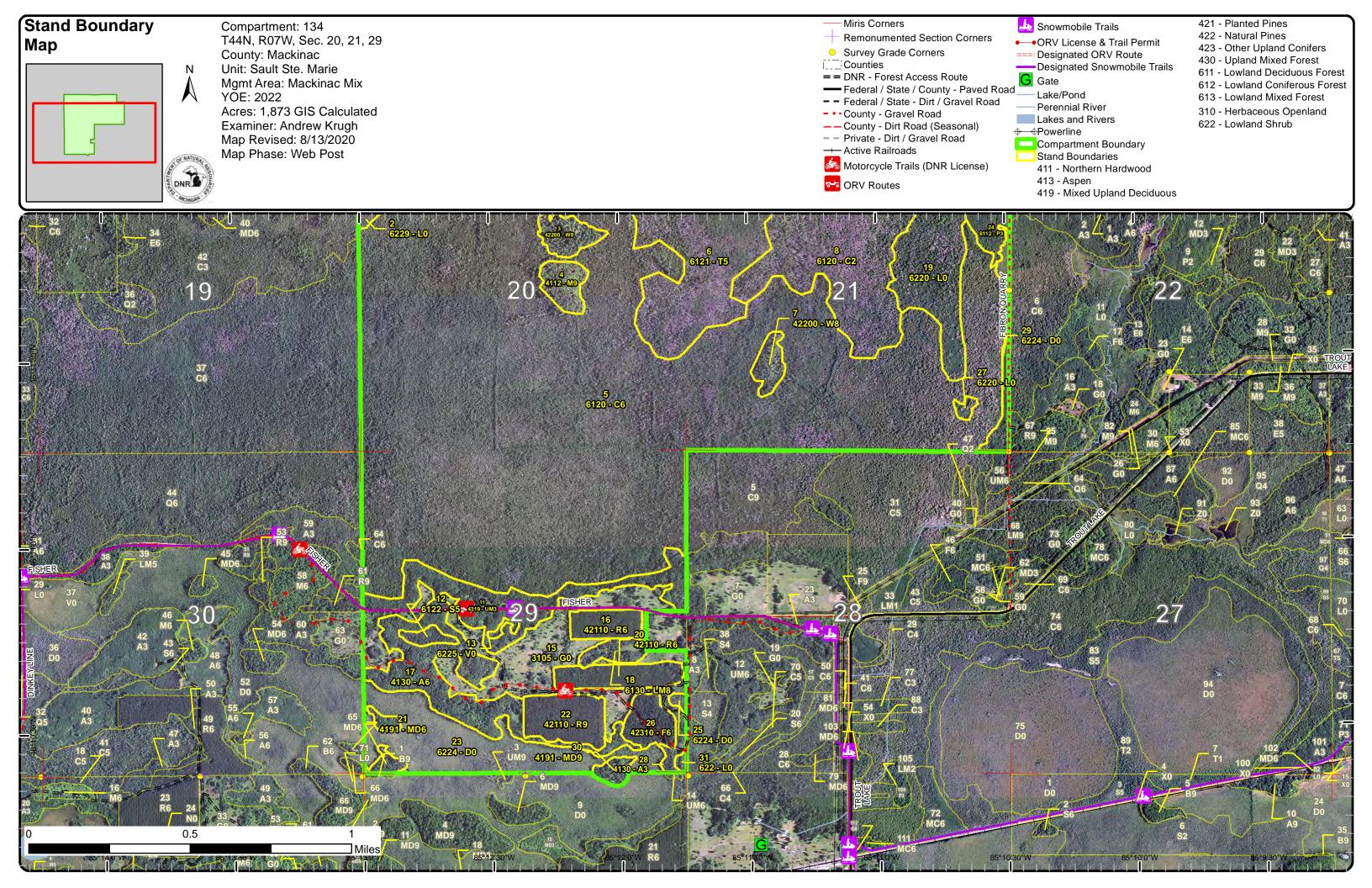
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

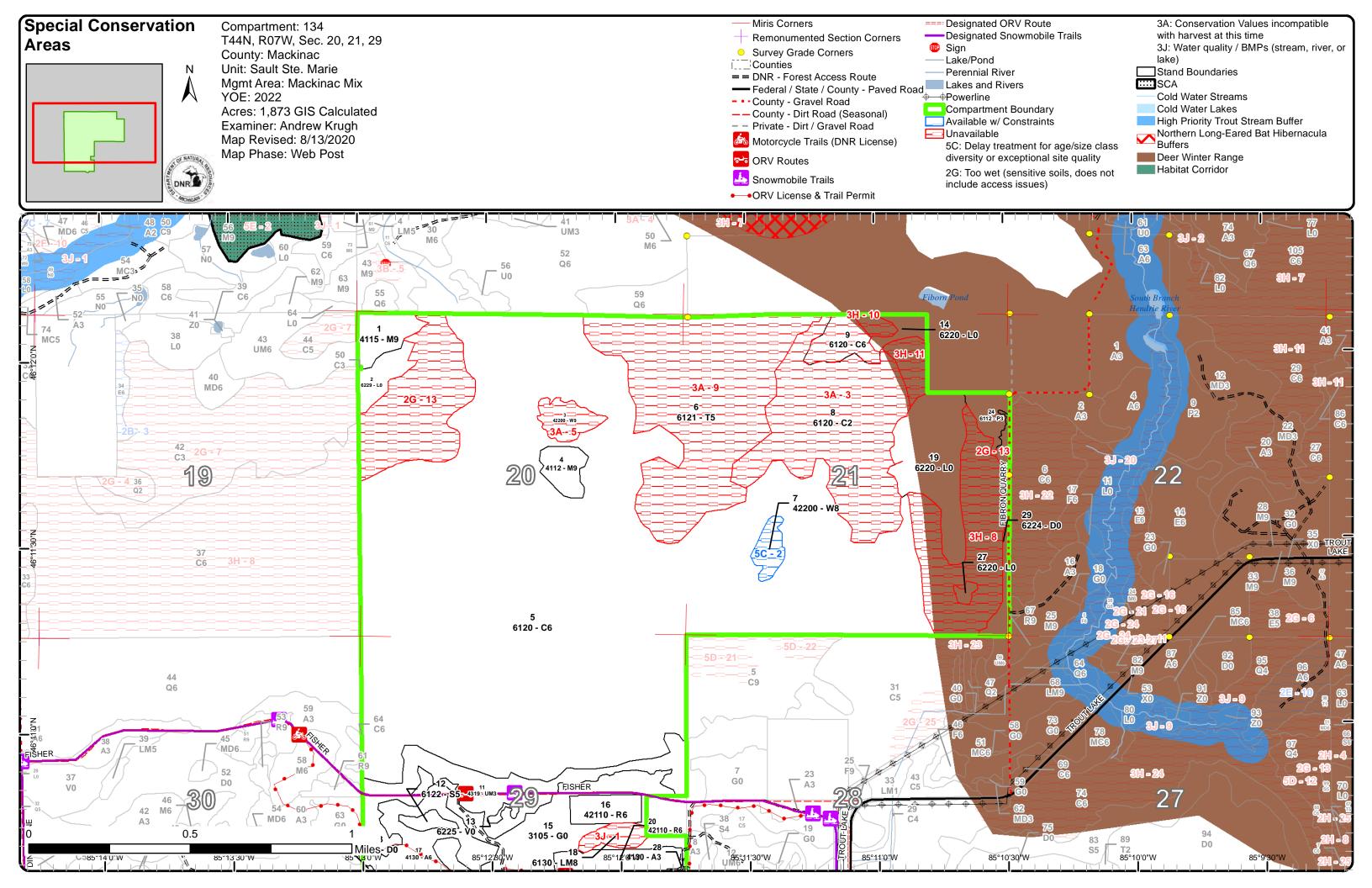


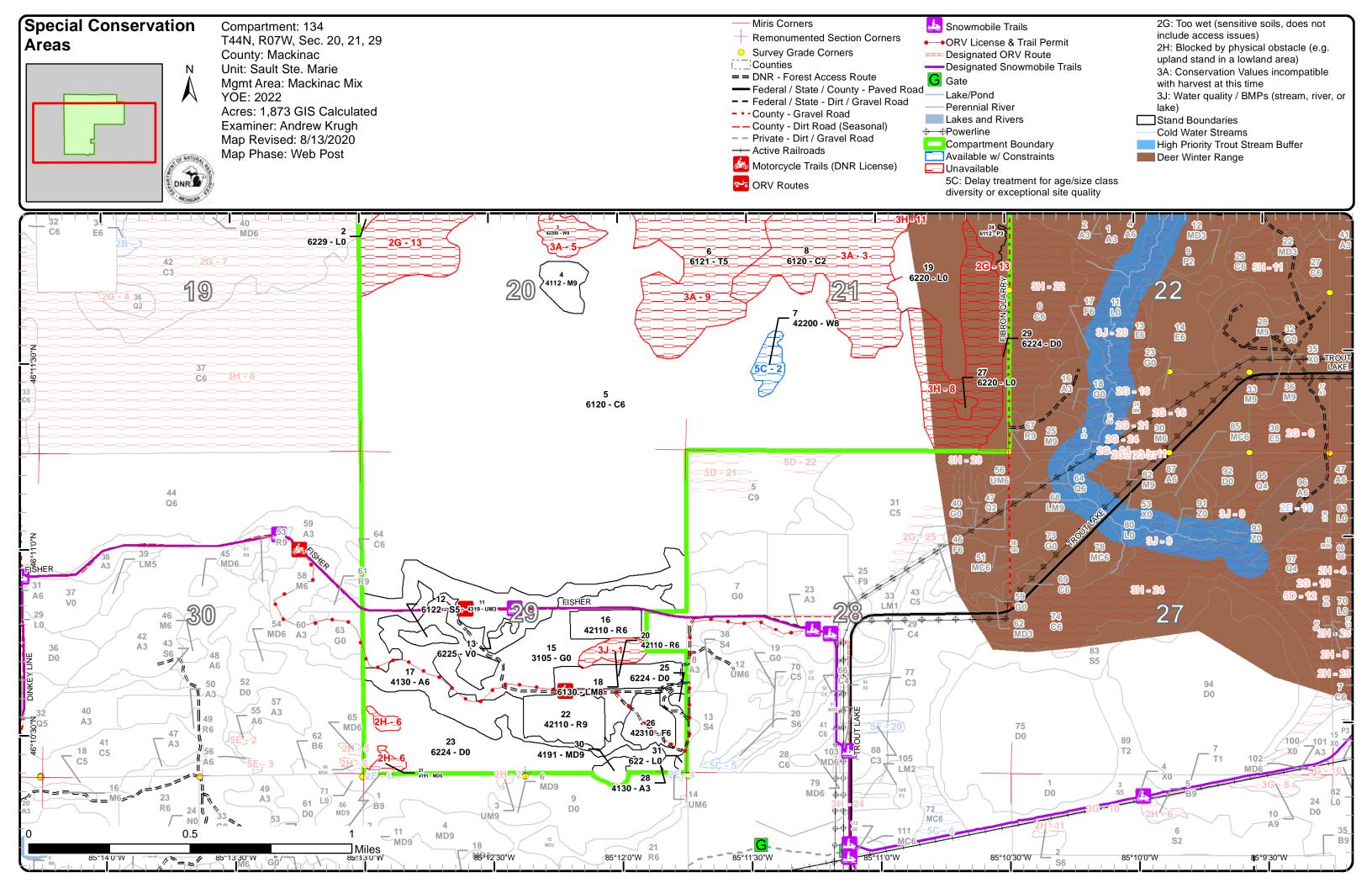












Compartment 134 Year of Entry 2022

Sault Ste. Marie Mgt. Unit
Andrew Krugh: Examiner



#### Age Class

					/		/				/	/	/	/	7			7	, ,
	No.	is of a	3 / 2			3/6		8/8		R &	* * * * * * * * * * * * * * * * * * *	S Ju	7 2 Z					S Just	N. S.
Aspen	0	0	8	0	58	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	0	0	1173	0	0	0	0	18	0	1191
Herbaceous Openland	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84
Lowland Aspen/Balsam Poplar	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Mixed Forest	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Lowland Shrub	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	7	5	0	0	0	0	0	0	0	11
Northern Hardwood	0	0	0	0	0	0	0	0	0	15	11	0	0	0	0	0	0	0	26
Red Pine	0	0	0	0	31	0	23	0	0	0	0	0	0	0	0	0	0	0	54
Tamarack	0	0	0	0	0	0	0	0	0	0	170	0	0	0	0	0	0	0	170
Treed Bog	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
Upland Mixed Forest	0	0	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Upland Spruce/Fir	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	14
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	20
Total	246	0	8	0	152	0	23	22	4	22	186	1173	0	0	20	0	18	0	1873



## **Report 2 – Treatment Summary**

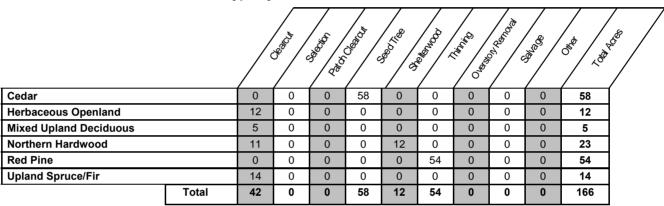
Sault Ste. Marie Mgt. Unit Year of Entry: 2022

#### **Acres of Harvest**

Compartment 134
Total Compartment Acres: 1,873

Commercial Harvest - 161 Harvests with Site Condition - 5 Next Step Harvest - 0 Habitat Cut - 0

## **Cover Type by Harvest Method**



## **Proposed and Next Step Treatments by Method**

		/.								100 / NO	√ / ≫	, \$ /
Current		166	0	0	0	0	0	0	72	0	239	
Next Step		0	14	14	0	14	28	129	0	12	211	
	Total	166	14	14	0	14	28	129	72	12	450	

Report 3 -- Treatments

Compartment: 134 Year of Entry: 2022

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**Treatment** Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age Habitat n Method Density Objective Structure Name CoverType Age Range Type Cut d

#### **Proposed Treatments:**

45134004-Cut 11.3 4112 - Maple, Sawtimber 95 141-Harvest Clearcut 4319 - Mixed Even-Aged No Beech, Cherry Well 170 **Upland Forest** Association

Prescription Cut all decidious and fir 2 inches and greater at dbh. Cut all spruce 4 inches and greater at dbh. Leave all white pine, hemlock, and cedar. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate to fully socked Maple, Fir, Spruce, White Pine.

Regen:

Other Leave no retention because of leave species and small size.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

45134005-Cut 6120 - Lowland Poletimber 107 81-110 Seed Tree with 6120 - Lowland 58.2 Harvest Even-Aged Nο Cedar Well Retention Cedar

Prescription Treatment method of seed tree with reserves for cedar management objective. Leave patches of 4-8 cedar trees throughout the stand, not Specs: further than 4 tree lengths apart. Acreage may change depending on site prep decisions. If there is a significant reduction in acres it should

be ok.

Next Step Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable Moderate to fully stocked Cedar, tamarack, and spruce. Short term objective will be a mix of lowland conifer.

Regen:

Road to hardwood stand will not have leave trees within it. Long term goal is cedar. It is ok if short term there is a higher mix of species. Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

310 -45134015-Cut 11.7 3105 - Mixed Nonstocked Unspec Harvest Clearcut No Upland Herbaceous Herbaceous ified Openland

Prescription Harvest all trees 2 inches and greater.

Specs:

Next Step NonForestMgt, Other - Specify

Treatments:

Acceptable none

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

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n Treatment d Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habit Cut
16 45134016-C	ut 12.6	42110 - Planted Red Pine	Poletimbe Well	r 36	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	N
Prescription Third Specs: Next Step	f row thin, re	emoving all deciduo	us if access	ible.			·			
Treatments:										
Regen: Other										
Comment:										
Site Condition  Proposed Start Da	ote: 10/1/2	021								
20 45134020-C		42110 - Planted Red Pine	Poletimbe Well	r 36	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	N
Prescription Third Specs:	d row thin re	moving all deciduou		cessible			9			
Next Step reatments:										
Acceptable Regen:										
Other Comment:										
Site Condition										
Proposed Start Da	ate: 10/1 /2	021								
		42110 - Planted Red Pine	Sawtimbe Well		141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	٨
Prescription Thin Specs:			Well		170		-	Red Pine	ŭ	N
		Red Pine	Well		170		_	Red Pine	ŭ	N
Prescription Thin Specs: Next Step		Red Pine	Well		170		_	Red Pine	ŭ	N
Prescription Thin Specs: Next Step Treatments: Acceptable		Red Pine	Well		170		_	Red Pine	ŭ	N
Prescription Thin Specs:  Next Step Treatments:  Acceptable Regen: Other		Red Pine	Well		170		_	Red Pine	ŭ	N
Prescription Thin Specs:  Next Step Freatments:  Acceptable Regen: Other Comment:	stand to 12	Red Pine 0 targeting poor forr	Well		170		_	Red Pine	ŭ	N
Prescription Thin Specs:  Next Step Freatments:  Acceptable Regen: Other Comment:  Site Condition Proposed Start Da	stand to 120	Red Pine 0 targeting poor forr	Well	r trees r	170		_	Red Pine	ŭ	
Prescription Thin Specs:  Next Step Treatments:  Acceptable Regen:  Other Comment:  Site Condition  Proposed Start Da  30 45134030-C	stand to 120  ate: 10/1 /20  ut 4.9	Red Pine 0 targeting poor forr  021  4191 - Mixed Upland Deciduous	Well  m and large  Sawtimbe  Well  and greater a	r trees r	170 most likely  171- 200  Mark 1-2	to be out of m  Harvest	Clearcut	Red Pine future final harve 4319 - Mixed Upland Forest	Even-Aged	1
Prescription Thin Specs:  Next Step Freatments:  Acceptable Regen: Other Comment:  Site Condition Proposed Start Date   30	stand to 120  ate: 10/1/20  ut 4.9  I harvest all ested only desired only desired to 120  I harvest all ested only desired to 120	Red Pine 0 targeting poor form  021  4191 - Mixed Upland Deciduous with Conifer species 2 inches an	Well m and large  Sawtimbe Well and greater a area for acc	r trees r	170 most likely  171- 200  Mark 1-2	to be out of m  Harvest	Clearcut	Red Pine future final harve 4319 - Mixed Upland Forest	Even-Aged	7
Prescription Thin Specs:  Next Step Freatments:  Acceptable Regen:  Other Comment:  Site Condition  Proposed Start Date Comment:  Prescription Fina Specs: Mon Freatments:  Acceptable Mod	stand to 12d  ate: 10/1 /2d  ut 4.9  I harvest all ested only distoring, Natu	Red Pine 0 targeting poor form  021  4191 - Mixed Upland Deciduous with Conifer species 2 inches and	Well m and large  Sawtimbe Well and greater a area for accumtory)	r trees r r 90 t DBH. I ess. no	170 most likely  171- 200  Mark 1-2 retention	Harvest white pine per a	Clearcut	Red Pine future final harve 4319 - Mixed Upland Forest	Even-Aged	1
Prescription Thin Specs:  Next Step Freatments:  Acceptable Regen: Other Comment: Site Condition Proposed Start Date Specs: Next Step Mon Freatments:  Acceptable Mod Regen:	ate: 10/1 /20 ut 4.9 I harvest all ested only distoring, Naturerate to fully	Red Pine 0 targeting poor form  021  4191 - Mixed Upland Deciduous with Conifer species 2 inches and lue to crossing wet a	Well m and large  Sawtimbe Well and greater a area for acc intory) een, Maple,	r trees r r 90 t DBH. I ess. no	170 most likely  171- 200  Mark 1-2 retention	Harvest white pine per a due to small si	Clearcut  acre where present to ze	Red Pine future final harve 4319 - Mixed Upland Forest	Even-Aged	7
Prescription Thin Specs:  Next Step Freatments:  Acceptable Regen:  Other Comment:  Site Condition  Proposed Start Date Comment:  Prescription Fina Specs: Horvet Step Mon Freatments:  Acceptable Mod Regen:  Other Whe Comment:	ate: 10/1 /20 ut 4.9 I harvest all ested only distoring, Naturerate to fully	Red Pine 0 targeting poor form  1021  4191 - Mixed Upland Deciduous with Conifer species 2 inches and lue to crossing wet a ural Regen (Re-Invert v stocked Birch, Asp	Well m and large  Sawtimbe Well and greater a area for acc intory) een, Maple,	r trees r r 90 t DBH. I ess. no	170 most likely  171- 200  Mark 1-2 retention	Harvest white pine per a due to small si	Clearcut  acre where present to ze	Red Pine future final harve 4319 - Mixed Upland Forest	Even-Aged	1

Openland

n d	Treatment Name	Acres	Stand CoverType		and BA ge Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
15	Openings	72.4	3105 - Mixed	Nonstocked	Unspec	Other	Other	310 -		No
	maintenance	ι	Jpland Herbaceou	S	ified			Herbaceous		

Prescription Mechanical, chemical, Rx burn, or other appropriate method to maintain the opening. Herbaceous planting or planting of some mast-bearing trees or shrubs may also occur. Specs:

Next Step Treatments: Acceptable Regen: Other

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Comment: Site Condition

Proposed Start Date: 10/1 /2021

#### **Approved Treatments:**

45134001-Cut 11.9 4115 - Y.Birch, 171-Sawtimber 84 Harvest Shelterwood 4115 - Y.Birch. Two-Aged No Hemlock NH Well 200 Hemlock NH

Prescription Reduce basal area to 50 to promote yellow birch and hemlock regeneration. Designate 1 hemlock per 5 acres to be felled as a nurse log for hemlock regeneration. Actual treatment size may vary depending on what conditions are found on the ground. Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Any mix of maple, birch, aspen, hemlock, balsam fir, spruce, pine, cedar, cherry, or cedar,

Regen:

Other cut with adjacent compartment.

Variance-There have been some changes requested to the treatment prescription proposed. The new prescription will be in stands: Comment:

45152063-cut, 45133043-south-cut and 45134001-cut, will be changed to clearcut with retention to cut all trees 2 inches in DBH or more, while leaving all white pine, hemlock, cedar and yellow birch and one to three quality hardwood trees where present to the acre. Also leave 3% to 10% retention for the whole area and place 5 chain no-cut buffer around the nest. Actual treatment size may vary depending on what conditions are found on the ground. Old next step comments: Check for regeneration in 4-5 years. Acceptable regeneration will include red

maple, yellow birch, hemlock, white pine, black cherry, sugar maple, aspen, ash, beech, and balsam fir.

Site Condition

Proposed Start Date: 10/1 /2018

45134026-Cut 14.1 42310 - Planted Poletimber 111-Harvest Clearcut 4211 - Planted Even-Aged No Spruce Well 140 Red Pine

Prescription Clear cut, burn, trench and plant with Red pine.

Specs:

Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, (Inactive)Aerial; Monitoring, Next Step

Treatments: Artificial Regen(3yr); Monitoring, Herbicide Use; Pesticide, (Inactive)Aerial

Acceptable Red pine

Regen:

Approved through Ch 7 4/11/17 **Other** 

Comment:

Site Condition

Proposed Start Date: 10/1 /2017

**Total Treatment** 238.7 Acreage Proposed:

Compartment: 134 Year of Entry: 2022 **Andrew Krugh: Examiner** 

Availa	ability for	Managemer	nt								
Total	Acres	Acres Avail	Acres	De	omina	nt Sit	e Con	dition	S		
Acres	Available	With Condition	Not Available		2E	5C	2G	2H	ЗА	3Н	3J
66	66	0	0	Aspen							
2	2	0	0	Bog							
1191	897	0	294	Cedar			69		137	89	
84	84	0	0	Herbaceous Openland							
10	10	0	0	Lowland Aspen/Balsam Poplar							
8	0	0	8	Lowland Mixed Forest							8
72	72	0	0	Lowland Shrub					0		
4	4	0	0	Lowland Spruce/Fir							
11	3	2	7	Mixed Upland Deciduous	2			7			
26	26	0	0	Northern Hardwood							
54	54	0	0	Red Pine							
170	0	0	170	Tamarack					170		
88	88	0	0	Treed Bog				0			
53	53	0	0	Upland Mixed Forest							
14	14	0	0	Upland Spruce/Fir							
20	0	8	12	White Pine		8			12		
1,873	1,372	10	491	Total Forested Acres	2	8	69	7	319	89	8
	73%	1%	26%	Relative Percent							

<sup>\*</sup>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	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

# Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh: Examiner

3	Unavailable	3A: Conservation Values incompatible with harvest at this time	137	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	3A: Conservation Values incompatible with harvest at this time	12	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	74	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Obligate deer yard.						
9	Unavailable	3A: Conservation Values	170	Unapposition	Unapposition	Unspecified	Unspecified
	Shavanasio	incompatible with harvest at this time	170	Unspecified	Unspecified	onspecified	Onspecifica
	Comments:	incompatible with harvest	170	Orispecified	Unspecified	Onspecified	Onspecified
		incompatible with harvest	170	Onspecified	Unspecified	Onspecified	Onspecified
		incompatible with harvest	170	Onspecified	Unspecified	Onspecified	Onspecifica

# **Report 4 – Site Conditions**

Sault Ste. Marie Mgt. Unit
Andrew Krugh: Examiner

10	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	4	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	11	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	69	Unspecified	Unspecified	Unspecified	Unspecified
С	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
Comments				

Sault Ste. Marie Mgt. Unit Compartment:





# 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.

Conservatio Area	п Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen condi- stocked trout populations and those of other coldwater fish speci- year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	es (e.g., slimy sculpin) to persist from se conditions due to substantial
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildli and Waterfowl Production Areas, deer wintering complexes in low openings and savannas. Habitat areas are distinct from critical hat endangered or threatened species (such as Kirtland's warbler or general in nature, are not primarily associated with threatened or covered by species recovery plans that are developed in cooperations.	wland conifer communities, grassland abitat designated for recovery of piping plover areas) in that they are more endangered species, and are not
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high d communities are ecologically and socially significant in their effect as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, liversity of plants and wildlife. Riparian cts on water quality and quantity, as well
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of identified as Element Occurrences (EOs) by the Michigan Natura context of their natural community classification system. Element (Excellent) or B (Good) and a Global (G) or State (S) element (ra threatened (2), or rare (3) serve as an initial base of ERAs. They the State. The system is comprised of individual or associations of managed for restoration and maintenance of natural ecological p submit recommendations for lands as ERAs using the DNR Constitutions.	Il Features Inventory (MNFI) within the Cocurrences with viability ranks of A rity) ranking of endangered (1), may be located upon any ownership in of natural community types that are processes and values. The public may

Report 7 - Stands



Stand	d Level 4 Co	over Type	;	Size De	ensity	Acres	Stand Age E	BA Range	Managed Site		General Comments
1	4115 - Y.Birc	h, Hemlock	NH S	Sawtimb	er Well	14.8	84	171-200	N/A		This stand is already set up and out for bid in 2020
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Red Maple	60	Log/Pole	12	84	Red	d Maple	Low	10 - 20 feet	Sapling	
	Yellow Birch	13	Pole/Log	10		Bals	sam Fir	Medium	10 - 20 feet	Sapling	
	White Spruce	7	Pole	6		He	emlock	Low	5 - 10 feet	Sapling	
No	orthern White Cedar	5	Pole	8							-
	White Pine	2	Log/XLog	22							
	Hemlock	10	Log	16							
	Black Cherry	3	Pole	8							
2	6229 - Mixed	l lowland sh	nrub	Nonst	ocked	12.2			No		alder marshy some cedar black spruce and white pine
						Sub-Can	opy Species	Density	Avg. Height	Size	
						Black	k Spruce	Low		Sapling	
						Whi	ite Pine	Trace		Log	
						Northern	White Cedar	Low		Sapling	
3	42200 - Natu				er Well		130	141-170	N/A		Old white pine and hemlock with a small deciduous contingent.  Increment borer wasn't long enough to reach core of tree.
	Canopy Species		Size Class		H Age		opy Species	Density	Avg. Height	Size	
	Dod Moolo							0147	E 10 toot		
	Red Maple	5	Log	12			d Maple	Low	5 - 10 feet	Sapling	
	Yellow Birch	2	Log/XLog	16		Bals	sam Fir	Medium	5 - 10 feet	Sapling	
	Yellow Birch Paper Birch	5	Log/XLog Log/Pole	16 10		Bals					
	Yellow Birch Paper Birch White Pine	2 5 68	Log/XLog Log/Pole XLog/Log	16 10 20	130	Bals	sam Fir	Medium	5 - 10 feet	Sapling	
	Yellow Birch Paper Birch	5	Log/XLog Log/Pole	16 10	130	Bals	sam Fir	Medium	5 - 10 feet	Sapling	
4	Yellow Birch Paper Birch White Pine Hemlock 4112 - Maple,	2 5 68 20	Log/XLog Log/Pole XLog/Log Log	16 10 20 16	130 per Well	Bals He	sam Fir	Medium	5 - 10 feet	Sapling	Red Maple island could be cut if accessible. Hemlock and white Pine Concentrated in pockets. Stand is located in the middle of an immense
4	Yellow Birch Paper Birch White Pine Hemlock 4112 - Maple,	2 5 68 20 Beech, Chociation	Log/XLog Log/Pole XLog/Log Log	16 10 20 16		Bals He	sam Fir emlock	Medium Low	5 - 10 feet 5 - 10 feet	Sapling	·
4	Yellow Birch Paper Birch White Pine Hemlock 4112 - Maple, Asso	2 5 68 20 Beech, Chociation	Log/XLog Log/Pole XLog/Log Log Log	16 10 20 16	per Well	Bals He  11.3  Sub-Can	sam Fir emlock	Medium Low	5 - 10 feet 5 - 10 feet N/A	Sapling Sapling	Concentrated in pockets. Stand is located in the middle of an immense
4	Yellow Birch Paper Birch White Pine Hemlock 4112 - Maple, Asso Canopy Species	2 5 68 20 Beech, Chociation	Log/XLog Log/Pole XLog/Log Log  Herry Size Class	16 10 20 16 Sawtimb	per Well	Bals He  11.3  Sub-Can	sam Fir emlock 95 nopy Species	Medium Low 141-170 Density	5 - 10 feet 5 - 10 feet N/A Avg. Height	Sapling Sapling	Concentrated in pockets. Stand is located in the middle of an immense
4	Yellow Birch Paper Birch White Pine Hemlock  4112 - Maple, Asso Canopy Species Red Maple	2 5 68 20 Beech, Chociation % Cover 88	Log/XLog Log/Pole XLog/Log Log Log Size Class Log/Pole	16 10 20 16 Sawtimb	per Well	Bals He  11.3  Sub-Can	sam Fir emlock  95  hopy Species d Maple	Medium Low  141-170  Density Medium	5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet	Sapling Sapling Size Sapling	Concentrated in pockets. Stand is located in the middle of an immense
4	Yellow Birch Paper Birch White Pine Hemlock  4112 - Maple, Asso Canopy Species Red Maple Yellow Birch White Pine	2 5 68 20 Beech, Chociation % Cover 88 2	Log/XLog Log/Pole XLog/Log Log  Merry Size Class Log/Pole Log XLog/Log	16 10 20 16 Sawtimb	per Well	11.3  Sub-Can Rec Bals	sam Fir emlock  95  hopy Species d Maple	Medium Low  141-170  Density Medium	5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet	Sapling Sapling Size Sapling	Concentrated in pockets. Stand is located in the middle of an immense swamp and access will be tough.  Cedar mixed with scattered pockets of tamarack and black spruce. The
	Yellow Birch Paper Birch White Pine Hemlock  4112 - Maple, Asso Canopy Species Red Maple Yellow Birch White Pine	2 5 68 20 Beech, Chociation % Cover 88 2 5	Log/XLog Log/Pole XLog/Log Log  Merry Size Class Log/Pole Log XLog/Log	16 10 20 16 Sawtimb 12 17 18	H Age	Bals He  11.3  Sub-Can Rec Bals  1,039.1	95 nopy Species d Maple sam Fir	Medium Low  141-170  Density Medium High	5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet 10 - 20 feet	Sapling Sapling Size Sapling	Concentrated in pockets. Stand is located in the middle of an immense swamp and access will be tough.  Cedar mixed with scattered pockets of tamarack and black spruce. The was a high water table present throughout this stand. If you look on the
	Yellow Birch Paper Birch White Pine Hemlock  4112 - Maple, Asso Canopy Species Red Maple Yellow Birch White Pine	2 5 68 20 Beech, Chociation % Cover 88 2 5	Log/XLog Log/Pole XLog/Log Log  herry  Size Class Log/Pole Log XLog/Log	16 10 20 16 Sawtimb 12 17 18	er Well	Bals  11.3  Sub-Can  Rec  Bals  1,039.1  Sub-Can	95 nopy Species d Maple sam Fir	Medium Low  141-170  Density  Medium High  81-110	5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet 10 - 20 feet	Sapling Sapling Size Sapling Sapling	Concentrated in pockets. Stand is located in the middle of an immense swamp and access will be tough.  Cedar mixed with scattered pockets of tamarack and black spruce. The
5	Yellow Birch Paper Birch White Pine Hemlock  4112 - Maple, Asso Canopy Species Red Maple Yellow Birch White Pine  6120 - Low Canopy Species	2 5 68 20 Beech, Chociation % Cover 88 2 5	Log/XLog Log/Pole XLog/Log Log  herry  Size Class Log/Pole Log XLog/Log  Size Class Size Class	16 10 20 16  Bawtimb  DBH 12 17 18  Poletimb  DBH 6	er Well	Bals He  11.3  Sub-Can Rec Bals  1,039.1  Sub-Can Bals	95 nopy Species d Maple sam Fir	Medium Low  141-170  Density  Medium High  81-110  Density	5 - 10 feet 5 - 10 feet N/A  Avg. Height 5 - 10 feet 10 - 20 feet  N/A  Avg. Height	Sapling Size Sapling Sapling Sapling	Concentrated in pockets. Stand is located in the middle of an immense swamp and access will be tough.  Cedar mixed with scattered pockets of tamarack and black spruce. The was a high water table present throughout this stand. If you look on the aerial imagery the lines are old cuts that filled in great with a mix of

7 - Stands Compartment: 134
Year of Entry: 2022

DNR DICHIGAN

Stanc	d Level 4 C	over Type	s	Size De	nsity	Acres	Stand Age B	A Range	Managed \$	Site	General Comments
6	6121 -	Tamarack	Pole	etimbe	Medium	170.2	99	51-80	N/A		Standing water. Stand entrance requires Hummock Hopping. Also
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	observed an occasional Black Cherry Sapling Growing out of larger hummocks.
	Red Maple	2	Pole	5		Ва	alsam Fir	Low	5 - 10 feet	Sapling	Training of the state of the st
	Paper Birch	3	Pole	5		Bla	ck Spruce	Low	< 5 feet	Sapling	
	Balsam Fir	10	Pole/Sapling	5		Norther	n White Cedar	Medium	< 5 feet	Sapling	
	Black Spruce	15	Pole/Sapling	5		Lab	rador Tea	Medium	Variable	Tall Shrub	
No	orthern White Cedar	10	Pole/Sap/Log	5			Alder	Medium	5 - 10 feet	Tall Shrub	
	Tamarack	60	Pole	6	99			- 1			
7	42200 - Nati	ural White F	Pine Saw	vtimbe	Medium	8.4	130	141-170	N/A		This stand is a small upland island in the middle of a large swamp. Lar
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	white pine with red maple and upland black spruce underneath.  Increment borer not long enough to reach core.
	Red Maple	15	Log/Pole	10		Ba	ılsam Fir	High	Variable	Sapling	increment borer not long chaugh to reach core.
	Black Spruce	5	Pole	6							
	White Pine	78	XLog/Log	20	130						
	Hemlock	2	Log	16							
8	6120 - Lo	wland Ceda	ar Sa	apling I	Medium	133.9	101	51-80	N/A		Stand has alot of snags of spruce and tamarack. There are no fine
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	branches in the trees to suggest the tamarack are living. This stand h
	Paper Birch	2	Pole/Log	8		Ва	ılsam Fir	Low	< 5 feet	Sapling	dying out. This stand will most likely become a monoculture or ceader
	Balsam Fir	12	Pole	6		Bla	ck Spruce	Low	< 5 feet	Sapling	the next 50 years .
	Black Spruce	12	Sapling/Pole	4		Lab	rador Tea	Medium	< 5 feet	Tall Shrub	
No	orthern White Cedar	64	Sapling/Pole	4	101						
	Tamarack	10	Pole	7							
9	6120 - Lo	wland Ceda	ar Po	oletimb	er Well	18.3	150	51-80	N/A		Cedar mixed with Tamarack and Black spruce. lots of standing
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	water present.
	Paper Birch	10	Pole/Log	8		Ba	ılsam Fir	Low	< 5 feet	Sapling	
	Balsam Fir	10	Pole	6		Bla	ck Spruce	Low	< 5 feet	Sapling	
	Black Spruce	10	Pole	6		Lab	rador Tea	Medium	< 5 feet	Tall Shrub	
No	orthern White Cedar	60	Pole	8	150						1
	Tamarack	10	Pole/Log	10							
11	4319 - Mixed	Upland Fo	orest S	Sapling	y Well	52.8	32	111-140	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age						
	Quaking Aspen	40	Sapling	4	32						
	Black Spruce	40	Pole/Sapling	6							
	Red Maple	10	Sapling	4							
	Tamarack	10	Pole	6							



Stand	Level 4 Cover Type Size Density		Acres Stand Age BA Range			Managed S	Site	General Comments		
12	6122 - Black Spruce Po		e Pole	etimber Mediur	4.3 73		81-110	N/A		Black spruce bog with moss and labrador tea covering the ground. stand is not ready for harvest yet.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	is not ready for narvest yet.
	Black Spruce	95	Pole/Sapling	5 73	Lab	rador Tea	Medium	< 5 feet	Tall Shrub	
	Tamarack	5	Pole	6						
13	6225 - Bog No			Nonstocked	1.6	U	nspecified	No		Small bog with spotty tamarack Surrounded By young aspen stand
					Sub-Ca	nopy Species	Density	Avg. Height	Size	
					Le	atherleaf	Full		Tall Shrub	
					Ta	amarack	Low		Sapling	
14	6220 - Al	der/willow		Nonstocked	6.8			No		
15	3105 - Mixed Upland Herbaceous Nonstocked				84.1 Unspecified			No		Area is open grassland with Scattered cherry trees spruce And Clumps of young aspen beginning to Colonize throughout
					Sub-Ca	sub-Canopy Species Density Avg. Height Size		young aspen beginning to Colonize throughout		
						Conifers	Trace		Pole	
						ck Cherry	Low		Pole	
						king Aspen	Low		Sapling	
16	42110 - Plar	nted Red P	ine Po	oletimber Well	12.6	36	171-200	N/A		
	Canopy Species	% Cover	Size Class	DBH Age						
	Red Pine	100	Pole	7 36						
17	4130 - Aspen Poletir		oletimber Well	ell 58.0 37		111-140	N/A		Young aspen stand with scattered spruce, fir and the occasional white	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	pine. No treatments are needed at this time.
	Red Maple	10	Sapling/Pole				•			
	· · ·			4	Ba	lsam Fir	Low	< 5 feet	Sapling	
	Quaking Aspen	10	Pole/Sapling	6		ulsam Fir ut (American)	Low Medium	< 5 feet < 5 feet	Sapling Tall Shrub	
	Quaking Aspen Bigtooth Aspen	10 60			Hazeln					
	<u> </u>		Pole/Sapling	6	Hazeln Bla	ut (American)	Medium	< 5 feet	Tall Shrub Sapling	
	Bigtooth Aspen	60	Pole/Sapling Pole/Sapling	6 37	Hazeln Bla	ut (American) ck Spruce	Medium Low	< 5 feet Variable	Tall Shrub	
	Bigtooth Aspen Balsam Fir	60 5	Pole/Sapling Pole/Sapling Pole/Sapling	6 6 37 6	Hazeln Bla	ut (American) ck Spruce	Medium Low	< 5 feet Variable	Tall Shrub Sapling	
	Bigtooth Aspen Balsam Fir White Spruce	60 5 3	Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling	6 6 37 6 6	Hazeln Bla	ut (American) ck Spruce	Medium Low	< 5 feet Variable	Tall Shrub Sapling	
18	Bigtooth Aspen Balsam Fir White Spruce Black Cherry	60 5 3 3 9	Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling	6 37 6 6 6 6	Hazeln Bla Ir	ut (American) ck Spruce	Medium Low	< 5 feet Variable	Tall Shrub Sapling	Forested area that surrounds a small wetland leave to shelter wetland.
18	Bigtooth Aspen Balsam Fir White Spruce Black Cherry Jack Pine	60 5 3 3 9	Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling	6 6 37 6 6 6 5 5	Hazeln Bla Ir	ut (American) ck Spruce onwood	Medium Low Low	< 5 feet Variable Variable	Tall Shrub Sapling	Forested area that surrounds a small wetland leave to shelter wetland.
18	Bigtooth Aspen Balsam Fir White Spruce Black Cherry Jack Pine 6130 - Fir, A	60 5 3 3 9	Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole Pole Saw	6 37 6 6 6 5 svtimber Mediur	Hazeln Bla Ir	ut (American) ck Spruce onwood	Medium Low Low	< 5 feet Variable Variable	Tall Shrub Sapling	Forested area that surrounds a small wetland leave to shelter wetland.
18	Bigtooth Aspen Balsam Fir White Spruce Black Cherry Jack Pine 6130 - Fir, A	60 5 3 3 9 Aspen, Ma	Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole Saw Size Class	6 37 6 6 6 5 vtimber Mediur	Hazeln Bla Ir	ut (American) ck Spruce onwood	Medium Low Low	< 5 feet Variable Variable	Tall Shrub Sapling	Forested area that surrounds a small wetland leave to shelter wetland.
18	Bigtooth Aspen Balsam Fir White Spruce Black Cherry Jack Pine 6130 - Fir, A Canopy Species Paper Birch	60 5 3 3 9 Aspen, Ma <b>% Cover</b> 8	Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole Saw Size Class Pole/Log	6 37 6 6 6 5 witimber Mediur DBH Age 9	Hazeln Bla Ir	ut (American) ck Spruce onwood	Medium Low Low	< 5 feet Variable Variable	Tall Shrub Sapling	Forested area that surrounds a small wetland leave to shelter wetland.
18	Bigtooth Aspen Balsam Fir White Spruce Black Cherry Jack Pine 6130 - Fir, A Canopy Species Paper Birch Quaking Aspen	60 5 3 3 9 Aspen, Ma ** Cover 8 50	Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole Save Size Class Pole/Log Log/Pole	6 37 6 6 6 5 wrimber Medium  DBH Age 9 10 61	Hazeln Bla Ir	ut (American) ck Spruce onwood	Medium Low Low	< 5 feet Variable Variable	Tall Shrub Sapling	Forested area that surrounds a small wetland leave to shelter wetland.



Stand	Level 4 Co	over Type		Size Density	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
19	6220 - Alder/willow		Nonstocked	49.8			No		Tag Alder with scattered trees	
						nopy Species		Avg. Height	Size	
					Northerr	n White Cedar	Trace		Sapling	
20	42110 - Plai	nted Red P	ine	Poletimber Well	18.3	36	171-200	N/A		
C	Canopy Species	% Cover	Size Class	DBH Age						
	Red Pine	100	Pole	7 36						
21	4191 - Mixed Upland Deciduous with F			Poletimber Well	6.5	89	111-140	N/A		Mackinac Mix harvestable if ice road is Built would have to cross an Area of Bog Containirg sensitive species (pitcher plant).
(	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Maple	10	Pole	9		ılsam Fir	High	5 - 10 feet	Sapling	
	Paper Birch	40	Pole	8 89						J
В	Bigtooth Aspen	30	Log/Pole	10						
	Balsam Fir	20	Pole/Sapling	g 7						
22	42110 - Planted Red Pine		Sawtimber Well	23.3	59	141-170	N/A		1/3 live crown. Thin stand one more time then start thinking about restarting the stand.	
	Canopy Species		Size Class	DBH Age						
	Red Pine	100	Log	10 59						
23	6224 - 1	Γreed Bog		Nonstocked	73.7			No		Black spruce Bog No Merchantable trees Also observed patches of pitcher plant
						nopy Species		Avg. Height	Size	-
						amarack	Low		Sapling	
						atherleaf	High		Tall Shrub	
						ck Spruce	High		Sapling	
					Lab	rador Tea	Medium		Tall Shrub	
24	6112 - Lov	wland Aspe	n	Sapling Well	9.6	24	474 000			
-				3	9.0	34	171-200	N/A		aspen wet Ground
,	Canopy Species	% Cover	Size Class	DBH Age	9.6	34	171-200	N/A		aspen wet Ground
	Canopy Species Red Maple	% Cover			9.0	34	171-200	N/A		aspen wet Ground
			Size Class	DBH Age	9.0	34	171-200	N/A		aspen wet Ground
	Red Maple	10	Size Class Sapling	DBH Age	9.0	34	171-200	N/A		aspen wet Ground
Q	Red Maple Quaking Aspen	10 55	Size Class Sapling Sapling	DBH Age 1 1 34 1	9.0	34	1/1-200	N/A		aspen wet Ground
Q	Red Maple Quaking Aspen Balsam Fir hern White Cedar	10 55 30	Size Class Sapling Sapling Sapling	DBH Age 1 1 34 1	1.5		Jnspecified	N/A		aspen wet Ground  Black spruce Bog w/ Labrador tea, moss, and Alder pockets dispersed
Q	Red Maple Quaking Aspen Balsam Fir hern White Cedar	10 55 30 5	Size Class Sapling Sapling Sapling	DBH Age	1.5	L	Inspecified	No	Size	
Q	Red Maple Quaking Aspen Balsam Fir hern White Cedar	10 55 30 5	Size Class Sapling Sapling Sapling	DBH Age	1.5 Sub-Ca		Inspecified		Size Pole	Black spruce Bog w/ Labrador tea, moss, and Alder pockets dispersed
Q	Red Maple Quaking Aspen Balsam Fir hern White Cedar	10 55 30 5	Size Class Sapling Sapling Sapling	DBH Age	1.5 Sub-Ca	nopy Species	Inspecified  Density	No		Black spruce Bog w/ Labrador tea, moss, and Alder pockets dispersed
Q	Red Maple Quaking Aspen Balsam Fir hern White Cedar	10 55 30 5	Size Class Sapling Sapling Sapling Pole/Sapling	DBH Age	1.5 Sub-Ca	L nopy Species amarack ck Spruce	Inspecified  Density  Low	No	Pole	Black spruce Bog w/ Labrador tea, moss, and Alder pockets dispersed
North 25	Red Maple Quaking Aspen Balsam Fir hern White Cedar 6224 - 1	10 55 30 5	Size Class Sapling Sapling Sapling Pole/Sapling	DBH Age 1 1 34 1 1 g 5	1.5 Sub-Ca Ta Blac	L nopy Species amarack ck Spruce	Unspecified  Density  Low  Medium	No Avg. Height	Pole	Black spruce Bog w/ Labrador tea, moss, and Alder pockets dispersed through out.

Report 7 - Stands



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
27	6220 - Alder/willow			Nonstocked		2.1			No		Small alder pocket surrounded by cedar.
						Sub-Canopy Species		s Density	Avg. Height	Size	
							Alder	Medium		Tall Shrub	
28	4130 - Aspen			Sapling Well		8.0	11	Immature	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age						
	Quaking Aspen	70	Sapling	1	11						
	Red Maple	15	Sapling	1							
	Balsam Fir	10	Sapling	1							
	Black Spruce	5	Sapling	1							
29	6224 - Treed Bog		Nonstoo		Nonstocked 12	12.4	12.4 Unspec		No		Stand is mostly tag alder with a smattering of coniferous and decidous
						Sub-Ca	anopy Species	s Density	Avg. Height	Size	trees intermixed.
							Alder	High		Tall Shrub	
						Ва	alsam Fir	Trace		Pole	
						Norther	n White Cedar	Trace		Pole	
						Pa	per Birch	Trace		Pole	
						Ta	amarack	Trace		Pole	
30	4191 - Mixed Upland Deciduous with Sav Conifer			Sawtimb	er Wel	l 4.9	90	171-200	N/A		Mature mackinac mix clearcut to Regenerate. Stand continues to the south cut entire stand if possible. Stand is surrounded by black spruce
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	anopy Species	s Density	Avg. Height	Size	bog making access difficult. Low volumes and quality.
	Red Maple	5	Log/Pole	10		Ва	alsam Fir	Medium	5 - 10 feet	Sapling	
	Paper Birch	50	Log/Pole	12	90						
	Bigtooth Aspen	15	Log/Pole	12							
	Balsam Fir	15	Pole	6							
31	622 - Lowland Shrub		ı	Nonstocked		1.3	1.3		No		mix of balsam fir, Tamarack, red maple, white pine, Alder and paper pirch.
							anopy Species		Avg. Height	Size	Diron.
								N A a alicensa		Pole	
						I a	amarack	Medium		Sapling	