



# Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45197

Entry Year 2019

Acreage: 1,751

County Mackinac

Management Area: Battydoe Deer Yard

**Revision Date:** 2017-08-03

**Stand Examiner:** Jennifer Burnham

## **Legal Description:**

T41N-R12W Sections 1 & 2; T42N-R12W Sections 35 & 36

## **Identified Planning Goals:**

The management in this compartment is to improve thermal cover for winter deer yard complex and to increase species diversity through out. BBD salvage cuts are completed and oak plantings are continuing through the compartment. Maintaining good health and quality in the northern hardwood stands continue to be a priority.

## **Soil and topography:**

The compartment is fairly level terrain with some rolling hills in the southern part of the compartment. there are a couple of lakes in the northern portion of the compartment. In the southern part of the compartment there are numerous drainages that flow to the south into Lake Michigan. The Markey & Carbondale muck as well as the Dawson & Loxley peats are common in the lowland, depressions on ground moraines and lake plains. The Greylock Sandy Loam along with the Battydoe fine sandy-loam dominates the high ground, undulating areas on the ground moraines and the drumlins.

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

The compartment is surrounded by State land with some private ownership in the northwest corner. Birch Point Road leads to private cabins along the lake shore to the south of the compartment. The land is managed for timber production and deer habitat. The area is used by hunters, ATV operators, and hikers.

## **Unique Natural Features:**

There are some wooded-dune/swale complexes along the numerous drainages in the far southern part of the compartment with the . Sand Lake is almost completely within the compartment boundary and some of the Batty Doe shoreline is also within the compartment.

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

None known.

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

The entire compartment is within a Deer Winter Complex. The compartment's southern boundary touches the Wooded and Dune Swale Complex and Seiner's Point old growth in the adjacent compartment.

## **Watershed and Fisheries Considerations:**

Compartment 197: This compartment contains the southeast region of Batty Doe Lake as well as a large proportion of Sand Lake. These waterbodies are of minimal management priority. Best Management Practices should be followed.

## **Wildlife Habitat Considerations:**

Compartment 197 is part of the Battydoe Deer Yard Management Area where featured wildlife species include red-shouldered hawk, ruffed grouse, snowshoe hare, and white-tailed deer. The entire compartment is in deer wintering complex where cedar and other conifer cover provide deer some shelter from winter conditions. Cedar and other closed canopy conifer cover will be maintained to provide cover for wintering deer and habitat for hare and other wildlife. Any treatments taking place in stands with palatable browse will be conducted during the winter months (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Beech bark disease has resulted in a loss of American beech in this area, and oak planting projects have taken place in recent years in this and nearby compartments to help mitigate the loss of this source of hard mast. Northern hardwood stands will be maintained to provide habitat for a variety of wildlife including red-shouldered hawks.

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

Sand/gravel pits are not located in the area and potential is unknown. There may be some dolostone potential. Large dolostone quarries exist several miles to the west and northwest of the compartment. There is no current economic oil and gas production in the UP and there is no known metallic mineral potential in this region.

**Vehicle Access:**

Access is fairly limited. Batty Doe lake Rd is a good gravel road that provides the main access through the compartment. Off the Batty Doe Lake Rd are a few poor dirt roads branching off providing limited access mostly to the south and a few spurs to the north.

**Survey Needs:**

None.

**Recreational Facilities and Opportunities:**

There are no recreational facilities present with in the compartment but the road system provides access for hunter, fisherman, bird watcher, hiker, etc.

**Fire Protection:**

The compartment has a poor road system which will make access difficult. There are cabins in the northwest and southwest of the compartment that are a priority for protection. The conifer stands are on heavier organic soils and can be of concern during years of drought. The hardwoods are on shallower soils and would allow for easier fire containment.

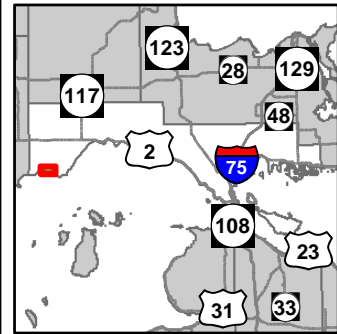
**Additional Compartment Information:****The following reports from the Inventory are attached:**

- 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:**

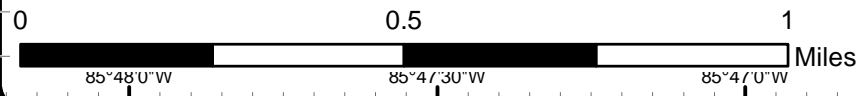
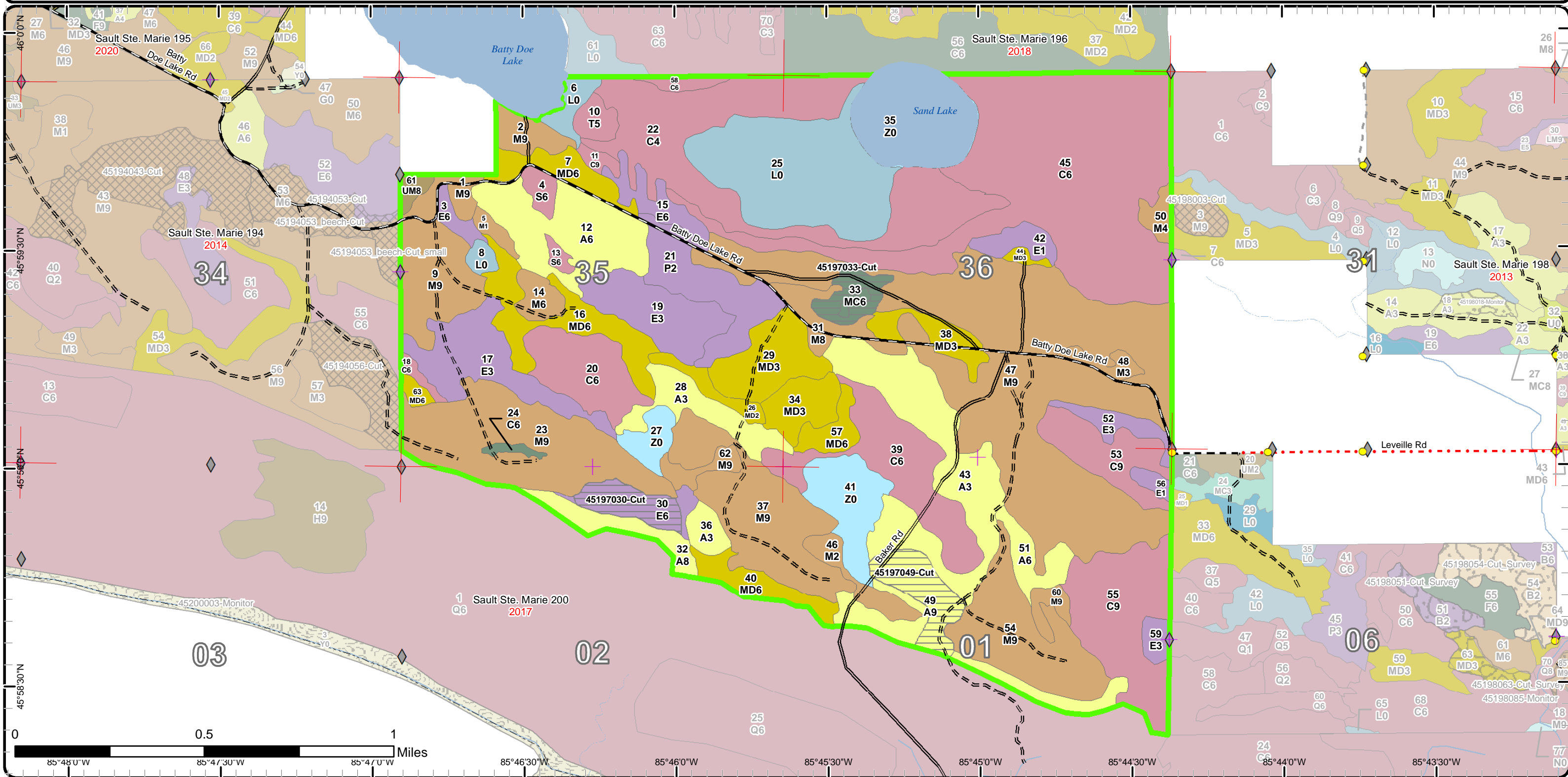
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map



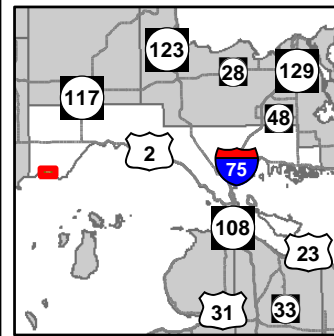
Compartment: 197  
 T42N, R12W, Sec: 35, 36  
 T41N, R12W, Sec: 1, 2  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Mgmt Area: Battydoe Deer Yard  
 YOE: 2019  
 Acres: 1,751 GIS Calculated  
 Examiner: Jennifer Burnham  
 Map Revised: 7/30/2018  
 Map Phase: Post Review

- Miris Corners
- ✚ Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Primary Forest Road
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Compartment Boundary
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub
- Lakes

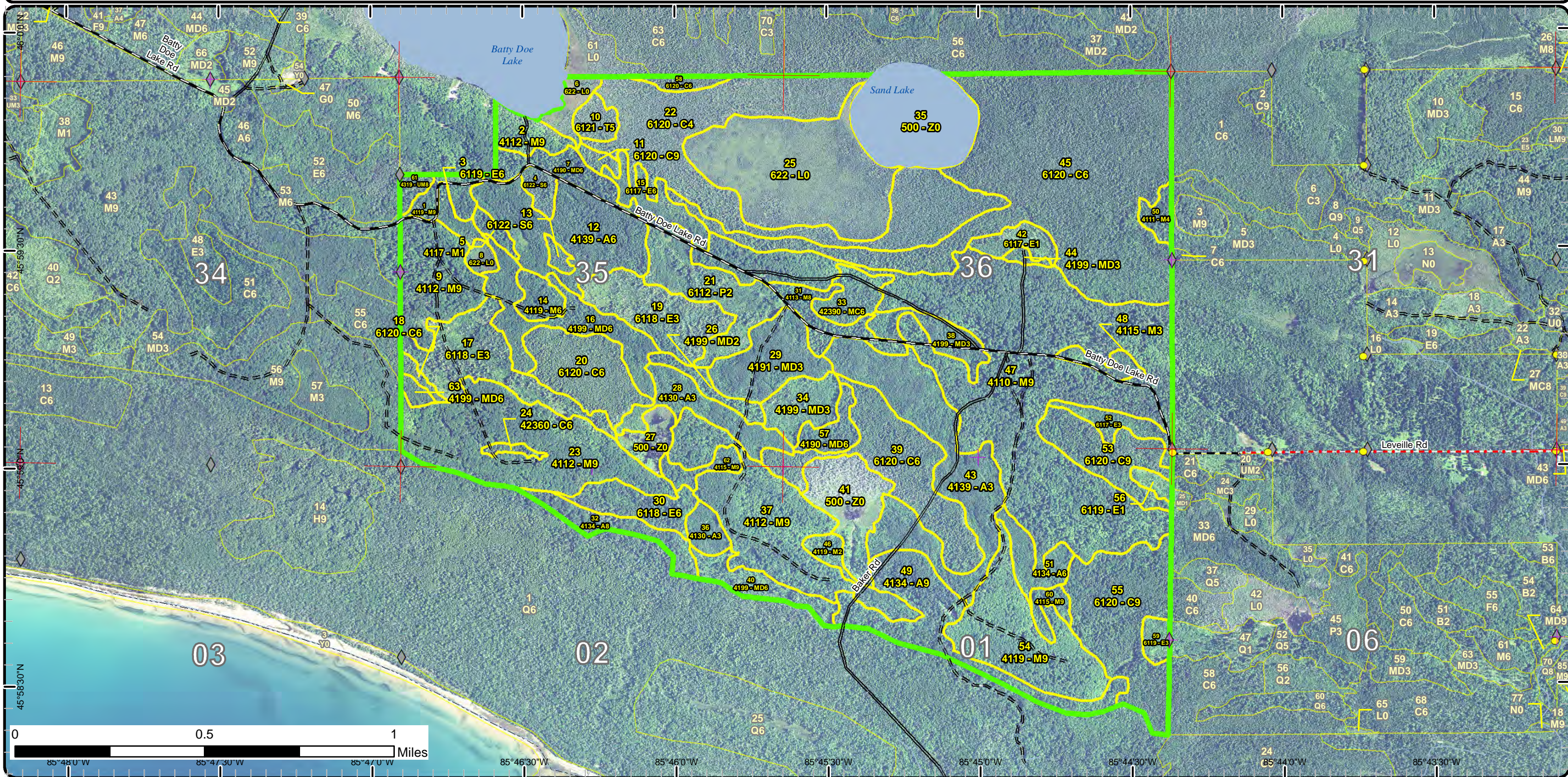


# Stand Boundary Map

Compartment: 197  
 T42N, R12W, Sec: 35, 36  
 T41N, R12W, Sec: 1, 2  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Mgmt Area: Battydoe Deer Yard  
 YOE: 2019  
 Acres: 1,751 GIS Calculated  
 Examiner: Jennifer Burnham  
 Map Revised: 7/30/2018  
 Map Phase: Post Review

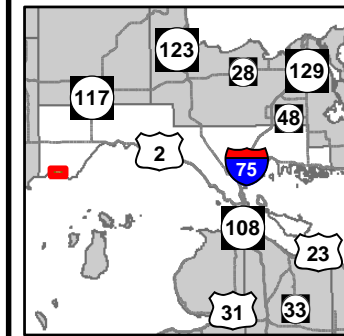


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub

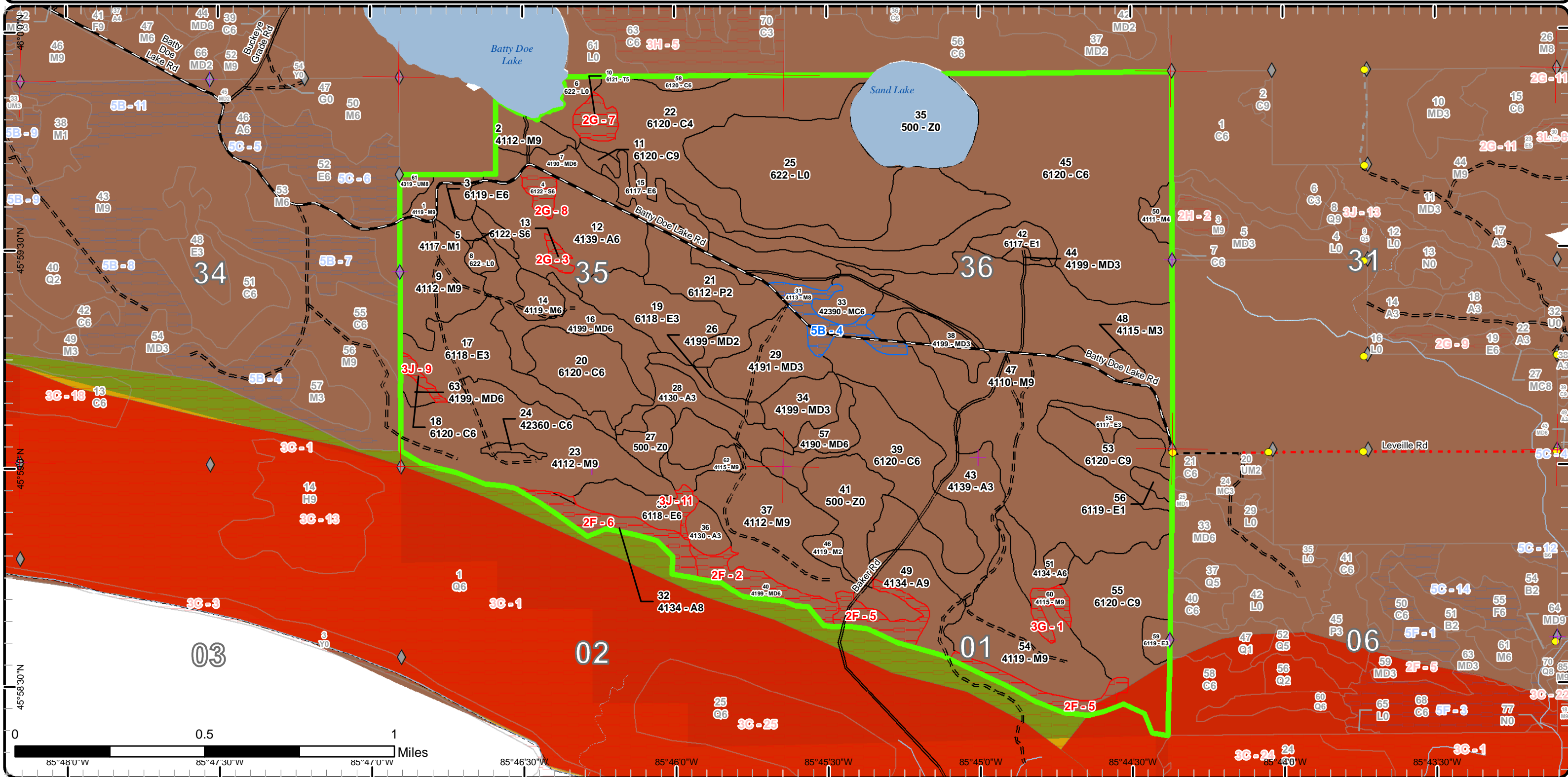


# Special Conservation Areas & Site Conditions Map

Compartment: 197  
 T42N, R12W, Sec: 35, 36  
 T41N, R12W, Sec: 1, 2  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Mgmt Area: Battydoe Deer Yard  
 YOE: 2019  
 Acres: 1,751 GIS Calculated  
 Examiner: Jennifer Burnham  
 Map Revised: 7/30/2018  
 Map Phase: Post Review



- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Ecological Reference Areas
- Forest Habitat Core Interior
- Cold Water Streams
- Non-Dedicated Natural Areas and National Natural Landmarks
- Verified Type 2 Old Growth
- Deer Winter Range
- 5B: Maintain for regeneration purposes
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)



# Report 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit

Compartment 197 Year of Entry 2019

Jennifer Burnham : 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
Aspen	0	0	0	97	62	0	0	0	0	59	0	0	0	0	0	0	0	0	218
Cedar	0	0	0	0	0	0	0	0	0	0	120	0	228	83	49	0	0	0	480
Lowland Aspen/Balsam Poplar	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Lowland Deciduous	0	4	84	0	10	13	0	5	0	0	0	17	0	0	0	0	0	0	133
Lowland Shrub	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	0	24	30	14	34	0	0	15	15	0	0	0	0	9	0	0	0	141
Northern Hardwood	0	0	0	11	10	0	0	0	0	79	438	0	0	0	0	0	0	0	537
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	7
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	12
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Water	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82
<b>Total</b>	<b>177</b>	<b>4</b>	<b>142</b>	<b>138</b>	<b>96</b>	<b>47</b>	<b>0</b>	<b>5</b>	<b>23</b>	<b>153</b>	<b>562</b>	<b>17</b>	<b>240</b>	<b>83</b>	<b>65</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1751</b>



## Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit  
Year of Entry: 2019

Compartment 197  
Total Compartment Acres: 1,751

### Acres of Harvest

Commercial Harvest - 45  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	20	0	0	0	0	0	0	0	0	20
Lowland Deciduous	14	0	0	0	0	0	0	0	0	14
Upland Conifers	11	0	0	0	0	0	0	0	0	11
<b>Total</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>45</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	45	0	0	0	0	0	0	0	0	45
Next Step	0	0	0	0	0	45	0	0	0	45
<b>Total</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>90</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
30	45197030-Cut	14.2	6118 - Lowland Deciduous with Cedar	Poletimber Well	107	81-110	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Do not cut cedar. Mark some large white pine and yellow birch for seed trees. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Do not cut Hemlock if present.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Regeneration should be the species that are currently present.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2018

33	45197033-Cut	10.8	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	115	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
----	--------------	------	--	-----------------	-----	--------	---------	-------------------------	-----------------------------	-----------	----------------------

**Habitat Cut: No****Site Condition:**

Prescription Remove all species. Mark a couple leave patches of cedar to be left as retention pockets. These pockets can pick up some of the white pine in the stand. Outside of retention pockets leave all cedar, except cut only those needed for operability. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Do not cut Hemlock if present.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Regeneration will be the same species that are present now.  
Regen:

Other Patches removed from the treatment layer is a guess on size and exact location. During a dry year the stand could be harvested without frozen conditions.  
Comment:

Proposed Start Date: 10/01/2018

49	45197049-Cut	20.1	4134 - Aspen, Spruce/Fir	Sawtimber Well	88	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
----	--------------	------	--------------------------	----------------	----	--------	---------	-------------------------	-------------	-----------	----------------------

**Habitat Cut: No****Site Condition:**

Prescription Staying on top of the slope should make a good set back for the creek buffer. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Leave cedar and white pine. Do not cut Hemlock if present.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Regeneration will be the species that are present now.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2018

**Total Treatment Acreage Proposed: 45.1**



## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit  
Jennifer Burnham : Examiner

Compartment: 197  
Year of Entry: 2019

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
----------------	--------------------	-------------------------------	------------------------

### Dominant Site Conditions

5B   2F   2G   3G   3J

Total	Acres	Acres Avail	Acres	Dominant Site Conditions	5B	2F	2G	3G	3J
217	179	0	38	Aspen		38			
480	477	0	3	Cedar					3
34	34	0	0	Lowland Aspen/Balsam Poplar					
132	129	0	3	Lowland Deciduous		0			3
95	95	0	0	Lowland Shrub					
8	0	0	8	Lowland Spruce/Fir			8		
141	126	0	15	Mixed Upland Deciduous		15	0		
537	517	14	6	Northern Hardwood	14			6	
7	0	0	7	Tamarack			7		
12	12	0	0	Upland Conifers					
4	4	0	0	Upland Mixed Forest					
82	82	0	0	Water					
1,751	1,656	14	80	Total Forested Acres	14	54	15	6	5
	95%	1%	5%	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	3G: Other Influence zones - See comments	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Vernal Pool							
2	Unavailable	2F: Too steep	15	3K: Rare or unique landforms	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Dune habitat filling in wildlife may want to do maintenance of some sort.							

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit  
Jennifer Burnham : Examiner

Compartment: 197  
Year of Entry: 2019

3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	5B: Maintain for regeneration purposes	14	Unspecified	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	2F: Too steep	23	3J: Water quality / BMPs (stream, river, or lake)	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
<b>Comments:</b> Site condition is for the steep banks and a buffer along the creek.							
6	<b>Unavailable</b>	2F: Too steep	15	Unspecified	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
<b>Comments:</b>							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit  
Jennifer Burnham : Examiner

Compartment: 197  
Year of Entry: 2019

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> buffer for creek							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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	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	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.
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4119 - Mixed Northern Hardwoods	Sawtimber Well	9.0	92	81-110	There could be more BA for treatment next entry. Cut in 03 'Birch Point Hwd'
2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.8	89	51-80	Thinned in 03 w/ 'Birch Pt Hwd'
3	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	5.0	61	81-110	Lots of water in the stand and areas where it stays pooled well after spring. Water drains into the low to the south. These wet areas have less BA than the higher ground areas. Not much in the understory.
4	6122 - Black Spruce	Poletimber Well	5.6	76	51-80	Most of the diversity is near the road. Ground cover is peat moss, fern and Labrador tea. Diameter and height of the trees are still small. Very wet ground.
5	4117 - Mixed N. Hardwood - Pine	Sapling Poor	3.8	38	1-50	Old opening filling in. Old skid road running through the stand. Probably picked through and some time.
7	4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	15.0	81	51-80	Stand is a mixture of upland and lowland soils. Treated under Batty Doe Shelter Mix.
9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	34.1	87	81-110	Stand should have more BA for possible harvest next entry. Thinned in '01, Archer's paradise. Oak was under planted in 2016.
10	6121 - Tamarack	Poletimber Medium	7.0	130	51-80	Even the peat moss is stunted from the high water table. Open stand with poor quality trees.
11	6120 - Lowland Cedar	Sawtimber Well	3.2	113	111-140	Lots of blow down in large pockets. Deer wintering complex - leave stand as cover for wintering deer.
12	4139 - Aspen, Mixed Deciduous	Poletimber Well	49.3	38	1-50	More spp coming into pole timber size. There are wet areas scattered in the stand. Harvested in '79 and then burned in '84 for WLD. Good diversity. There are a couple wet areas but they should dry out in summer. Aspen is of fair to poor quality.
13	6122 - Black Spruce	Poletimber Well	2.5	77	51-80	Wet stand of low BA and diameter. The wet lows drain through this stand in places. Some areas more open with tag alder in them.
14	4119 - Mixed Northern Hardwoods	Poletimber Well	8.1	88	81-110	Thinned in 03 'Birch Point Hwds'. Second age 14 is from the cutting. Wait 20 years to thin or take the top off now.
15	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	12.8	44	51-80	Good form on the regeneration. Cedar is mainly on the edges of the cutting and some clumps scattered in the stand.
16	4199 - Other Mixed Upland Deciduous	Poletimber Well	31.4	40	51-80	Starting to coming into poles. There is short, bushy WP in the more open areas. Stand contains an old opening in the southern part of stand. In '79 stand was harvested and then burned in '84 for WLD. Hold treatment for future entries, per WLD (2017).



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	6118 - Lowland Deciduous with Cedar	Sapling Well	37.9	13	51-80	In 10 years more conifer should be present. Cut in 05 'Batty Doe Shelter Mix'
18	6120 - Lowland Cedar	Poletimber Well	2.8	97	81-110	Buffer for creek. Deer wintering complex - leave stand as cover for wintering deer.
19	6118 - Lowland Deciduous with Cedar	Sapling Well	32.3	12	1-50	Good diversity, some wet areas. Cut under Batty Doe Shelter Mix sale.
20	6120 - Lowland Cedar	Poletimber Well	32.0	118	81-110	Fair to poor quality cedar, short. Not a thick canopy. Some cedar regen along north line against old clearcut. Stand drops off to the south and has lower stocking. Deer wintering complex - leave stand as cover for wintering deer.
21	6112 - Lowland Aspen	Sapling Medium	34.4	13	1-50	There are pockets of wet ground with tag alder, service berry, and fir. Cut portion of unit 5 of Batty Doe Shelter mix.
22	6120 - Lowland Cedar	Poletimber Poor	109.8	93	51-80	Stock goes from medium to low closer to the lakes, due to high water table. Closer to the 50 BA range. Deer wintering complex - leave stand as cover for wintering deer.
23	4112 - Maple, Beech, Cherry Association	Sawtimber Well	77.5	96	81-110	This stand seems to have the most browse out of any. Stand was beech salvaged in 2014.
24	42360 - Upland Cedar	Poletimber Well	2.3	97	81-110	Holds some water in the spring. Cedar is in clumps and most of the hardwood is on the edges. Poor quality. Deer wintering complex - leave stand as cover for wintering deer.
26	4199 - Other Mixed Upland Deciduous	Sapling Medium	7.7	12	51-80	Cut in 06 'Batty Doe Shelter Mix'. Some blow down of RM from the overstory. Some browse, but not over the entire area. The overstory maple has die back. Hold treatment for future opening maintenance, per WLD (2017).
28	4130 - Aspen	Sapling Well	21.4	24	1-50	Soil not saturated, just seeps through out the stand.
29	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	28.0	28	1-50	There are pockets of hemlock, cedar and yellow birch along with large red maple scattered.
30	6118 - Lowland Deciduous with Cedar	Poletimber Well	17.2	107	81-110	There are a mix of spp in the understory but only in the open areas and 5' or less in height. All spp are max age except for the cedar.
31	4113 - R.Maple, Conifer	Sawtimber Medium	14.3	84	51-80	North end of the stand is more of a lowland type w/ more cedar. Stand was treated under the Batty Doe Shelter Mix harvest. Treat again when there is more BA.
32	4134 - Aspen, Spruce/Fir	Sawtimber Medium	15.2	83	51-80	Old dune, aspen dying out or dead. Spruce and fir either very old or sapling stage. Rolling hills



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	12.1	115	81-110	Edges have most of the diversity, especially with the regeneration that is coming in from the cutting areas of the adjacent stands. Tamarack has poorly formed tops. Cedar is mainly in pockets.
34	4199 - Other Mixed Upland Deciduous	Sapling Well	16.3	12	1-50	Cut in 06 'Batty Doe Shelter Mix.' Removed all the RM and other deciduous timber. There are some scattered cedar patches (not many stumps). There is a good deciduous mix with not much browse.
36	4130 - Aspen	Sapling Well	7.1	25	1-50	Cut in '94 Peterson Creek II
37	4112 - Maple, Beech, Cherry Association	Sawtimber Well	62.9	98	81-110	Nice Quality HM. Thinned in 06 'Archer's Paradise', There are trace amounts of larger hemlock, white pine and cedar especially near the edges.
38	4199 - Other Mixed Upland Deciduous	Sapling Well	13.5	34	1-50	Mostly 3-4" dbh trees. Good diversity. Old opening WLD was trying to maintain with ground application in '78. In another cycle may want to come in for another sale.
39	6120 - Lowland Cedar	Poletimber Well	49.2	131	81-110	Some pockets of open areas and blow down. Old stumps show sign of past harvesting. Stand 41 is pushing into this stand with high water and killing off the trees. Would be nice to harvest some of this stand especially along the water body to harvest the cedar before it dies. Deer wintering complex - leave stand as cover for wintering deer.
40	4199 - Other Mixed Upland Deciduous	Poletimber Well	14.9	76	51-80	Very steep stand. Not an opening anymore. Birch and aspen are dying out. Old opening/Dune area. Maybe burn to maintain. Decent Blueberries
42	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	9.1	12	1-50	Getting regeneration of good spp mix. Should come look at regen again to see how many more cedar come in and if there is going to be any browse. At this time, there is not. Stand was harvested under the Batty Doe Shelter Mix harvest.
43	4139 - Aspen, Mixed Deciduous	Sapling Well	68.7	28	Unspecified	Good spp diversity. Some areas of lower ground that hold waters in the spring. Starting to come into small poles but still the majority of the stems are sapling size.
44	4199 - Other Mixed Upland Deciduous	Sapling Well	2.1	28	1-50	Old opening filling in. There are some good patches of raspberry and a couple of large clumps of 6-8" trees. Harvested in '93 under Peterson Creek.
45	6120 - Lowland Cedar	Poletimber Well	192.8	113	51-80	Stocking becomes moderate to low closer to Sand Lake and some areas near the hardwood stands. Cedar is poor to fair quality, not a very dense stand with open areas of tag alder and stunted trees. Deer wintering complex - leave stand as cover for wintering deer.
46	4119 - Mixed Northern Hardwoods	Sapling Medium	10.8	24	1-50	Getting good diversity of regeneration. Conifer will probably come in later on. The small cedar that is present is not being browsed. Cut in '94, Peterson Creek II





Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4110 - Sugar Maple Association	Sawtimber Well	230.0	98	81-110	There is trace component of large white pine, cedar and hemlock. Beech was salvaged out of stand in 2014. Oak was under planted in 2015 by wildlife division.
4115 - Y.Birch, Hemlock NH	Sapling Well	5.9	34	1-50	Good regen and diversity. In another 10 years the stand should have more spp in the pole category. Oak planted around the edges from the adjacent salvage sale. Camping site on the west side.
4134 - Aspen, Spruce/Fir	Sawtimber Well	43.5	88	81-110	High ground with a creek running through it. Middle of the large lobe is mainly spruce. There is a small wet area with dead or dying ash.
4111 - S.Maple, Hard Mast Association	Poletimber Poor	5.9	87	1-50	Stand harvested with adj. compartment and stand. With cherry, fir, birch, maple and spruce. Salvaged cut in 85. Regen mostly h maple and b.fir.
4134 - Aspen, Spruce/Fir	Poletimber Well	12.3	38	51-80	More upland but with seeps and a high water table. Old cedar stumps are present. Not sure how this was cut but the yellow birch regen is fantastic.
6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	9.5	34	1-50	Mix of high, low ground with the transition of hardwood to cedar. Stand was harvested in '85
6120 - Lowland Cedar	Sawtimber Well	26.8	129	111-140	The only regen is found in the blow down areas. They are pretty small pockets and if they were opened up more we could get better regen of all spp. Deer wintering complex - leave stand as cover for wintering deer.
4119 - Mixed Northern Hardwoods	Sawtimber Well	51.3	94	81-110	Many large boulders at the surface. Mix of regen is either none or browsed maple 2-3' tall or in large canopy gaps an equal mix of maple, striped maple, beech 15' tall. Cut in 2000 w/ 'Birch Point Hwds'. Lots of rock and boulders in stand. Deer Browse.
6120 - Lowland Cedar	Sawtimber Well	56.6	129	111-140	Cedar regen in blow down areas 1-3' tall with no browse. There are not many areas of blow down and they are fairly small. Bam in the stand is over mature and falling out. There are a couple low spots where there is tag alder and small conifer. Deer wintering complex - leave stand as cover for wintering deer.
6119 - Mixed Lowland Deciduous Forest	Sapling Poor	3.5	9	1-50	Part of Lost Radiator II sale, 45-130-04-01, Unit 2. Clearcut. Finished 3/2008. Continues in Comp 198 stand 47. Browse on the maple, especially around the edges.
4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	9.4	131	51-80	Stand becomes more wet and dense with cedar as you walk south. Cut under Batty Doe Shelter Mix in 2008.
6120 - Lowland Cedar	Poletimber Well	4.5	93	81-110	Similar to stand 63 in the north compartment 195. Cutting would only occur if harvesting stand to the north. Stock goes from medium to low closer to the lakes. Deer wintering complex - leave stand as cover for wintering deer.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>59</b>	6119 - Mixed Lowland Deciduous Forest	Sapling Well	5.1	10	1-50	Heavy deer browse even on the first year shoots of the striped maple. Raspberry in the understory. Starting to get conifer regen on the edges. Part of Lost Radiator II sale, 45-130-04-01, Continues into C198 stand 47. Unit 3. B6 and F6 clearcut. Finished 3/2008.
<b>60</b>	4115 - Y.Birch, Hemlock NH	Sawtimber Well	5.8	88	51-80	Vernal pool at the S tip and drains into the surrounding cedar stand. Cedar and hemlock are in the understory, short.
<b>61</b>	4319 - Mixed Upland Forest	Sawtimber Medium	3.7	92	81-110	Stand is a continuation of stand 52 in the adjacent compartment. When treating the adj stand (2014) YOE treat this stand.
<b>62</b>	4115 - Y.Birch, Hemlock NH	Sawtimber Well	6.7	97	81-110	Some striped maple, red maple and beech in the understory. Good cedar.
<b>63</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	3.0	40	51-80	Starting to coming into poles. There is short, bushy WP in the more open areas. Stand contains an old opening in the southern part of stand. In '79 stand was harvested and then burned in '84 for WLD.



Stand	Cover Type	Acres	Managed Site	General Comments:
6	622 - Lowland Shrub	7.9	No	Low area around Batty Doe Lake
8	622 - Lowland Shrub	3.6	No	
25	622 - Lowland Shrub	83.9	No	High water table so trees will always be stunted.
27	500 - Water	9.8	No	Series of beaver ponds flooding more timber area than previous year.
35	500 - Water	45.1	No	Sand Lake
41	500 - Water	27.4	No	Beaver pond that is continuing to increase in size and kill surrounding timber.