



# Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11059

Entry Year 2022

Acreage: 490

County Houghton

Management Area: Central Keweenaw

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**Revision Date:** 2020-04-21

**Stand Examiner:** Brad Carlson

**Legal Description:**

T53N, R32W Section 4;  
T54N, R32W Sections 33 and 34

**Identified Planning Goals:**

**Soil and topography:**

Much of the land is level and is only broken by a series of lake benches paralleling the existing lakeshore. Soils consist of Cathro-Gay Mucks, Zeba-Jacobsville complex (fine sandy loam and muck), Abbaye-Munising complex (loamy fine sand), Munising-Skanee complex (loamy fine sand, sandy loams), Skanee-Gay complex (fine sandy loam, sandy loam and muck) and Jacobsville Muck.

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

The state land is surrounded by small private holdings and some industry land. Except for section 34, the state land is all in one block.

**Unique Natural Features:**

Over a mile of Lake Superior shoreline that contains areas with up to 20 foot high sandstone cliffs.

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

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

The compartment adjoins Lake Superior to the East. There are no aquatic issues with this proposal.

**Wildlife Habitat Considerations:**

This compartment provides valuable wildlife habitat to grouse, deer, bear, furbearers, woodland raptors and neo tropical migrant song birds. This compartment is within the Jacobsville Deer Yarding complex. This yard is critically important to wintering deer from Southeastern Keewenaw County. Maintenance and expansion of long lived conifer species such as eastern hemlock, northern white cedar, and white pine are of primary importance. Conservation improvement of short lived conifer species such as spruce and fir, which also provide valuable thermal cover, remains important. Silvicultural practices which promote thermal cover habitat should be emphasized here. Maintenance of wildlife movement corridor particularly along the north to south orientation along the lake shore riparian influence zones is a wildlife emphasis. Maintenance of aspen acreage within this compartment for early forest wildlife species

The entire compartment is contained in the Jacobsville deeryard.

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

: Historically this area was known worldwide for its sandstone. Although this area is scattered with 100+ yr old quarries, none of them are present on state land. Surface sediments consist of coarse-textured glacial till and postglacial alluvium. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was previously used as a building stone and was quarried just to the south. The closest gravel pit is located eight miles to the west, but there may be some potential. Abandoned copper mines are located to the west. The Compartment has not been leased for metallic exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:**

There is one road called Sunrise Road that the state owns providing excellent access (off of a plowed county road) through

the southern portion of this compartment to the shoreline of Lake Superior. Historical maps show several other roads throughout the entire compartment but due to lack of maintenance they are grown over and barely recognizable on the ground.

**Survey Needs:**

Some survey work will need to be completed for further harvest opportunities this inventory cycle.

**Recreational Facilities and Opportunities:**

There is some evidence of hunting on this land but the pressure seems to be minimal. Hiking opportunities were observed year round on the Lake Superior lakeshore and Sunshine road.

**Fire Protection:**

This area has not been known to be a fire prone area.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

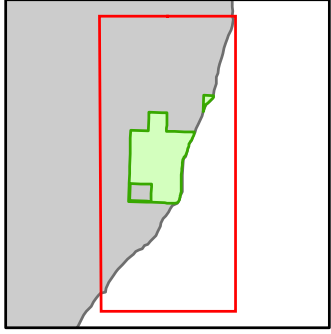
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

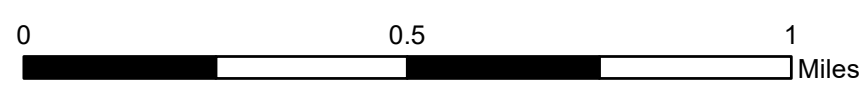
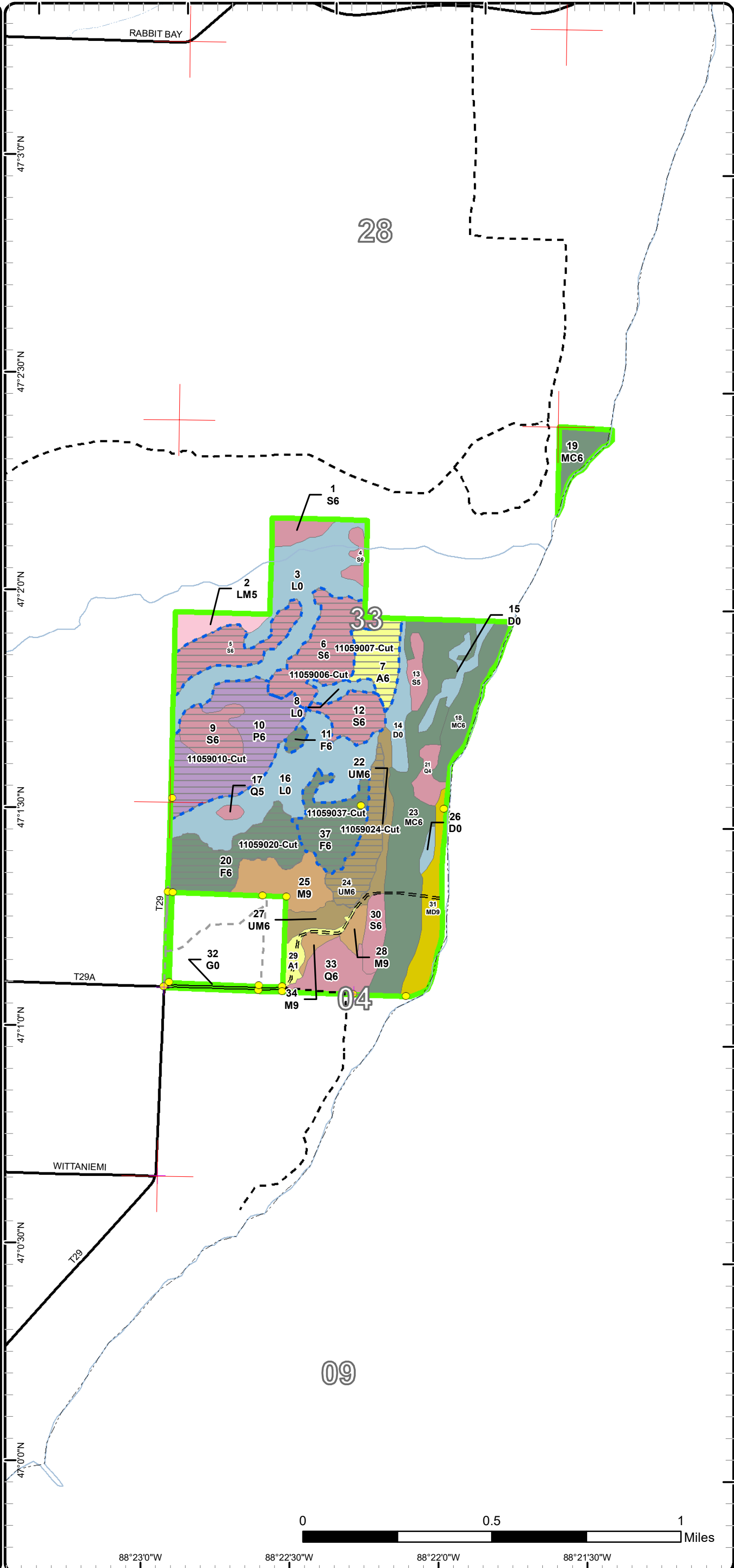
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 59  
 T54N, R32W, Sec: 33, T53N,  
 R32W, Sec. 4  
 County: Houghton  
 Unit: Baraga  
 Mgmt Area: Central Keweenaw  
 YOE: 2022  
 Acres: 490 GIS Calculated  
 Examiner: Brad Carlson  
 Map Revised: 10/2/2020  
 Map Phase: Post Review



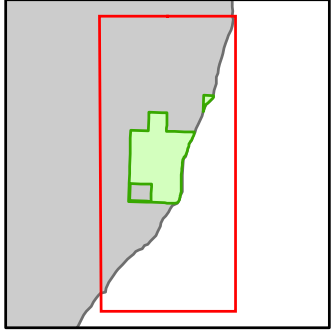
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- == Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- Private - Paved Road
- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Shoreline
- Compartment Boundary
- Treatments with Site Conditions
- 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
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub



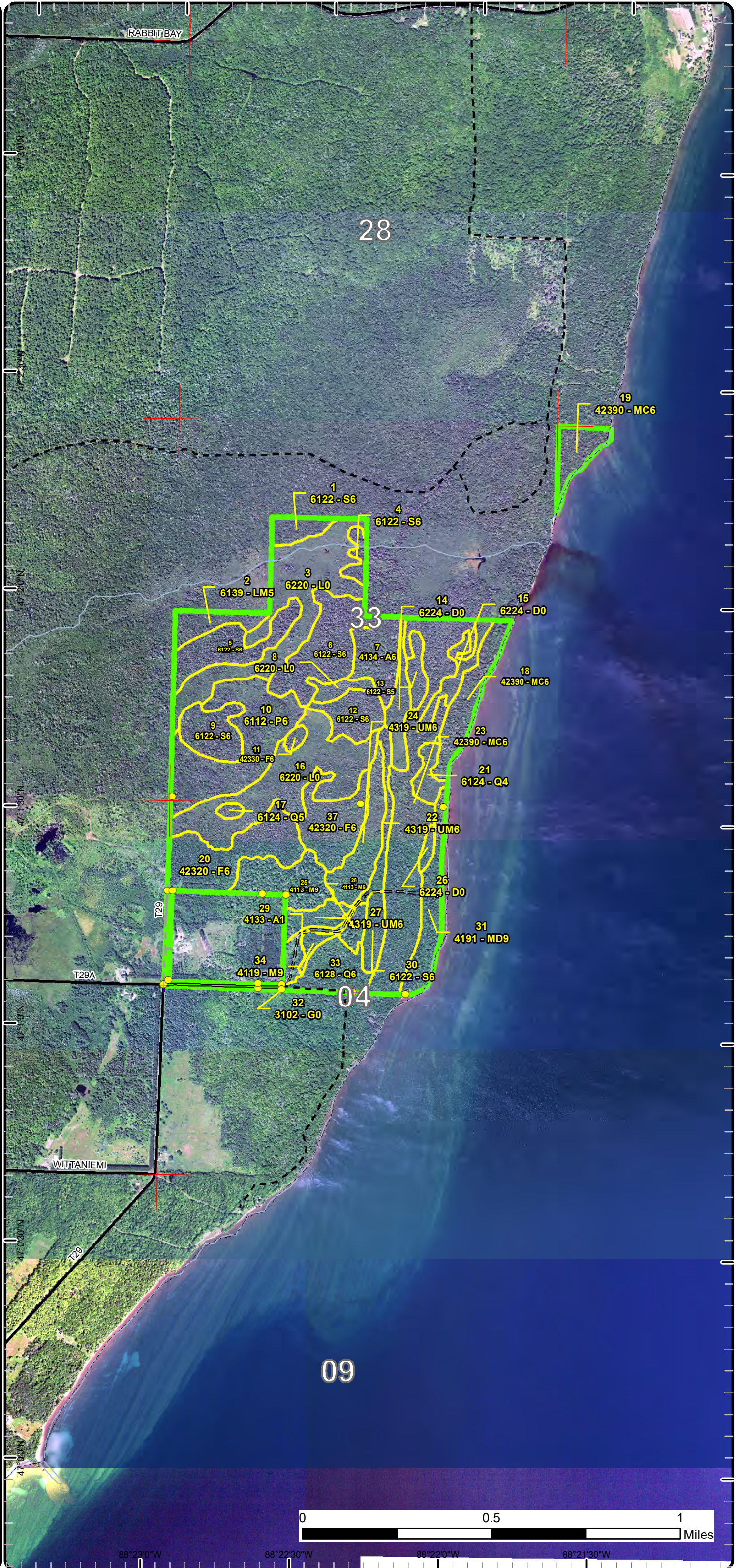
88°23'0"W      88°22'30"W      88°22'0"W      88°21'30"W

# Stand Boundary Map

Compartment: 59  
 T54N, R32W, Sec: 33, T53N,  
 R32W, Sec. 4  
 County: Houghton  
 Unit: Baraga  
 Mgmt Area: Central Keweenaw  
 YOE: 2022  
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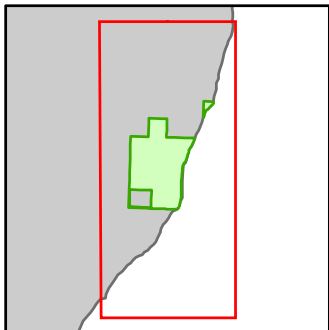


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
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- == Federal / State / County - Paved Road
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- Intermittent Stream
- Perennial River
- Shoreline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
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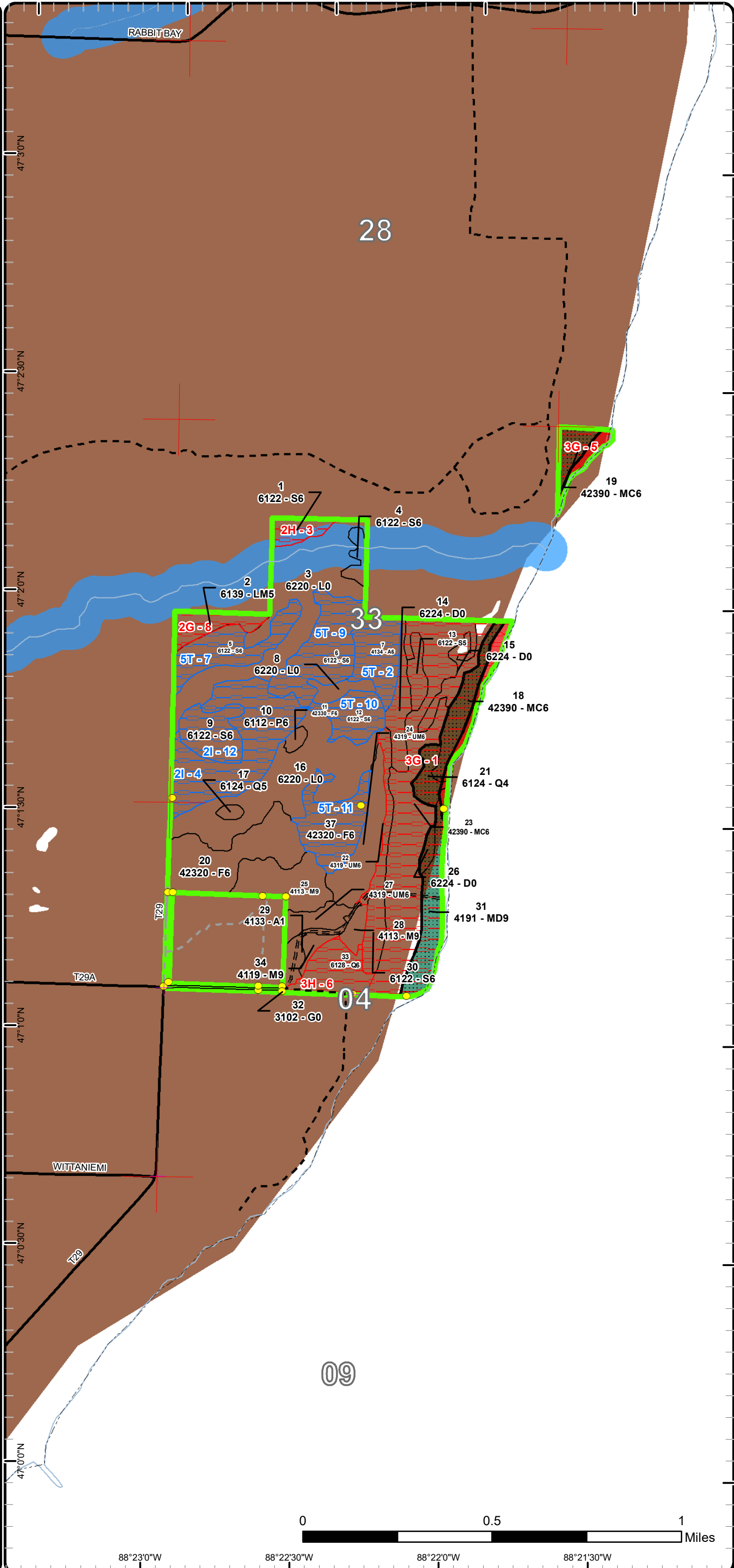


# Special Conservation Areas

Compartment: 59  
 T54N, R32W, Sec: 33, T53N,  
 R32W, Sec. 4  
 County: Houghton  
 Unit: Baraga  
 Mgmt Area: Central Keweenaw  
 YOE: 2022  
 Acres: 490 GIS Calculated  
 Examiner: Brad Carlson  
 Map Revised: 10/2/2020  
 Map Phase: Post Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Shoreline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5T: Contingency Treatment for Forest Health Concerns
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3G: Other Influence zones - See comments
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range
- Habitat Corridor



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	5	0	0	0	14	0	0	0	0	0	0	0	0	0	19
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	39
Lowland Conifers	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	15	20
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
Lowland Shrub	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	82	88
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23
Treed Bog	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	81
Upland Mixed Forest	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	23	29
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50
<b>Total</b>	<b>115</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>7</b>	<b>0</b>	<b>5</b>	<b>21</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>337</b>	<b>487</b>



## Report 2 – Treatment Summary

Baraga Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 59

Total Compartment Acres: 490

Commercial Harvest - 45  
 Harvests with Site Condition - 142  
 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	14	0	0	0	0	0	0	0	0	14
Lowland Aspen/Balsam Poplar	54	0	0	0	0	0	0	0	0	54
Lowland Spruce/Fir	55	0	0	0	0	0	0	0	0	55
Upland Mixed Forest	16	0	0	0	0	0	0	0	0	16
Upland Spruce/Fir	48	0	0	0	0	0	0	0	0	48
<b>Total</b>	<b>186</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>186</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	186	0	0	0	0	0	0	0	0	186
Next Step	0	0	0	0	0	0	186	0	0	186
<b>Total</b>	<b>186</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>186</b>	<b>0</b>	<b>0</b>	<b>373</b>



Stand Name	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:**

<b>5</b>	<b>11059005-Cut</b>	17.6	6122 - Black Spruce Poletimber Well		79	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all species down to 4.6 inches DBH except white pine, hemlock, cedar and black cherry if present. Also, reserve any yellow birch over 18" dbh if present.</p> <p>This is a deer wintering complex. All harvest operations shall be conducted between December 1 and April 15th.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stand's overstory species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Contingency Treatment</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>6</b>	<b>11059006-Cut</b>	25.5	6122 - Black Spruce Poletimber Well		83	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all species down to 4.6 inches DBH except white pine, hemlock, cedar and black cherry if present. Also, reserve any yellow birch over 18" dbh if present.</p> <p>This is a deer wintering complex. All harvest operations shall be conducted between December 1 and April 15th.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the overstory stand's original species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Contingency Treatment</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>7</b>	<b>11059007-Cut</b>	13.8	4134 - Aspen, Spruce/Fir Poletimber Well		76	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all species down to 4.6 inches DBH except white pine, hemlock, cedar and black cherry if present. Also, reserve any yellow birch over 18" dbh if present.</p> <p>This is a deer wintering complex. All harvest operations shall be conducted between December 1 and April 15th.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stand's overstory species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Contingency Treatment</p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
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<b>10</b>	<b>11059010-Cut</b>	53.6	6112 - Lowland Aspen	Poletimber Well	74	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Harvest all species down to 4.6 inches DBH except white pine, hemlock, cedar and black cherry if present. Also, reserve any yellow birch over 18" dbh if present.

This is a deer wintering complex. All harvest operations shall be conducted between December 1 and April 15th.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of the original stand's over story species prior to harvest.

Regen:

Other

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2021

<b>12</b>	<b>11059012-Cut</b>	11.4	6122 - Black Spruce	Poletimber Well	83	51-80	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Harvest all species down to 4.6 inches DBH except white pine, hemlock, cedar and black cherry if present. Also, reserve any yellow birch over 18" dbh if present.

This is a deer wintering complex. All harvest operations shall be conducted between December 1 and April 15th.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of the overstory stand's original species.

Regen:

Other

Comment:

Site Condition Contingency Treatment

Proposed Start Date: 10/1 /2021

<b>20</b>	<b>11059020-Cut</b>	28.3	42320 - Upland Spruce	Poletimber Well	87	81-110	Harvest	Clearcut with Retention	42320 - Upland Spruce	Even-Aged	No
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Prescription Cut all species except White pine and Cedar (and Hemlock if Present) White Pine and Cedar Currently make up 14% cover and should satisfy retention guidelines.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of the original stands over story species. A higher concentration of deciduous species is expected.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2011



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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
<b>24 11059024-Cut</b>	16.4	4319 - Mixed Upland Forest	Poletimber Well	88	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all species except White Pine and Cedar (and Hemlock if present). White Pine and Cedar currently are 18% of the canopy cover and should satisfy the retention guidelines.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of the original stands over story species. A higher concentration of deciduous species is expected.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2011</p>										
<b>37 11059037-Cut</b>	19.7	42320 - Upland Spruce	Poletimber Well	87	81-110	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	No
<p><u>Prescription</u> Harvest all species down to 4.6 inches DBH except white pine, hemlock, cedar and black cherry if present. Also, reserve any yellow birch over 18" dbh if present.</p> <p>This is a deer wintering complex. All harvest operations shall be conducted between December 1 and April 15th.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of the original stand's overstory species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Contingency Treatment</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

**Total Treatment** 186.3  
**Acreage Proposed:**

## Report 4 – Site Conditions

Baraga Mgt. Unit  
Brad Carlson : Examiner

Compartment: 59  
Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		2I	5T	2G	2H	3G	3H	
19	5	14	0	Aspen		14					
4	4	0	0	Herbaceous Openland							
39	0	39	0	Lowland Aspen/Balsam Poplar	39						
21	1	0	19	Lowland Conifers					5	14	
8	0	0	8	Lowland Mixed Forest			8				
92	92	0	0	Lowland Shrub		0	0				
88	4	67	17	Lowland Spruce/Fir	13	54	0	6	11		
16	0	0	16	Mixed Upland Deciduous					16		
23	23	0	0	Northern Hardwood							
19	0	0	19	Treed Bog					19		
81	0	0	81	Upland Conifers					81		
30	23	0	7	Upland Mixed Forest					7		
50	30	20	0	Upland Spruce/Fir		20					
490	183	140	167	Total Forested Acres	52	88	8	6	139	14	
	37%	29%	34%	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	130	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Great Lake Shoreline influence zone. WLD will not permit forest management.							
2	Available	5T: Contingency Treatment for Forest Health Concerns	14	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Baraga Mgt. Unit  
Brad Carlson : Examiner

Compartment: 59  
Year of Entry: 2022

3	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	2I: Survey needed	39	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	3G: Other Influence zones - See comments	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Great Lake Shoreline influence zone. WLD will not permit forest management.							
6	<b>Unavailable</b>	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	14	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	5T: Contingency Treatment for Forest Health Concerns	18	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Baraga Mgt. Unit  
Brad Carlson : Examiner

Compartment: 59  
Year of Entry: 2022

9	Available	5T: Contingency Treatment for Forest Health Concerns	26	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Available	5T: Contingency Treatment for Forest Health Concerns	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Available	5T: Contingency Treatment for Forest Health Concerns	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Treat stand only if we are able to treat adjacent stand.							



**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
	Habitat Area	Habitat Corridor	SCA	33
<b>Comments</b>				
Lake shore raptor nesting area.				



## 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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	6122 - Black Spruce	Poletimber Well	5.8	79	81-110	N/A	2020: Did not physically look at in the field.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole	8		Red Maple	Low	Variable	Sapling
Paper Birch	3	Pole	6		Paper Birch	Low	Variable	Sapling
Quaking Aspen	3	Pole	8		Paper Birch	High	Variable	Sapling
Balsam Fir	10	Pole	6		Black Spruce	Medium	Variable	Sapling
Black Spruce	62	Pole	6	79				
Northern White Cedar	2	Pole/Log	10					
Tamarack	15	Pole	10					
White Pine	2	Pole/Log	12					

2	6139 - Mixed Lowland Forest	Poletimber Medium	8.4	79	1-50	N/A	2020: Did not physically look at stand in the field.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	8		Tag Alder	Full	10 - 20 feet	Tall Shrub
Paper Birch	5	Pole/Sapling	5					
Quaking Aspen	3	Pole/Log	10					
Balsam Fir	10	Pole	6					
Black Spruce	25	Pole	6					
Northern White Cedar	10	Pole/Log	12					
White Pine	5	XLog	24					
Black Ash	40	Pole/Sapling	5	79				

3	6220 - Alder/willow	Nonstocked	43.9		Unspecified	No	2020: Did not physically look at stand in the field.
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4	6122 - Black Spruce	Poletimber Well	3.7	79	81-110	N/A	2020: Did not physically look at stand in the field.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	8		Red Maple	Low	Variable	Sapling
Paper Birch	3	Pole	6		Paper Birch	Low	Variable	Sapling
Quaking Aspen	3	Pole	8		Balsam Fir	High	Variable	Sapling
Balsam Fir	10	Pole	6		Black Spruce	Medium	Variable	Sapling
Black Spruce	63	Pole	6	79				
Northern White Cedar	2	Pole/Log	10					
Tamarack	15	Pole	10					
White Pine	2	Pole/Log	12					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**5**      6122 - Black Spruce      Poletimber Well      17.6      79      81-110      N/A      2020: Did not physically look at stand in the field.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	8		Red Maple	Low	Variable	Sapling
Paper Birch	3	Pole	6		Paper Birch	Low	Variable	Sapling
Quaking Aspen	3	Pole	8		Balsam Fir	High	Variable	Sapling
Balsam Fir	10	Pole	6		Black Spruce	Medium	Variable	Sapling
Black Spruce	63	Pole	6	79				
Northern White Cedar	2	Log/Pole	10					
Tamarack	15	Pole	10					
White Pine	2	Log/Pole	12					

**6**      6122 - Black Spruce      Poletimber Well      25.5      83      81-110      N/A      2020: Black spruce stand with tamarack along south, west and north edge. Paper birch, red maple and aspen along east edge of stand. Some blowdown, but no sign of stand deteriorating due to age/health.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	3	Pole	5		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	3	Pole	6		Black Spruce	Low	Variable	Sapling
Balsam Fir	5	Pole	6					
Black Spruce	70	Pole	8	83				
Tamarack	16	Pole	10					
White Pine	3	XLog	22					

**7**      4134 - Aspen, Spruce/Fir      Poletimber Well      13.8      76      81-110      N/A      Lots of blow down/dead stems in areas. Old road in stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log	11		Red Maple	Medium	5 - 10 feet	Sapling
Paper Birch	10	Pole/Log	12		Quaking Aspen	Medium	Variable	Sapling
Quaking Aspen	53	Pole/Log	12	76	Balsam Fir	Full	Variable	Sapling
Balsam Fir	25	Pole	6		Black Spruce	Low	5 - 10 feet	Sapling
White Spruce	2	Pole/Log	12					
Black Spruce	5	Pole	6					

2020: Aspen is dying out in areas along with blowdown in pockets. If access was better/higher acreage, stand 7 would be higher priority to set up. However, access is limited so it may be better to harvest stands on way in now and stands 5, 6, 7 and 12 in 10 years once stands 9 and 10 have hopefully been harvested.

**8**      6220 - Alder/willow      Nonstocked      4.2           Unspecified      No      2020: Tag alder

**9**      6122 - Black Spruce      Poletimber Well      12.9      77      81-110      N/A      2020: Smaller diameter black spruce, but thick. Aspen/maple mix on the west/north edge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole/Log	10		Paper Birch	Low	5 - 10 feet	Sapling
Paper Birch	3	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	3	Pole/Log	10		Black Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	10	Pole	6					
White Spruce	2	Log/Pole	12					
Black Spruce	76	Pole	6	77				
Northern White Cedar	2	Pole/Log	10					
White Pine	2	Log	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
10	6112 - Lowland Aspen	Poletimber Well	39.0	74	81-110	N/A	Variable BA. Some aspen is 14 inches but most in between 4-6" 2020: Better volume than expected. Diameters varies on aspen. Paper birch distributed throughout stand, 6" average. Red maple throughout stand as well, 6-8", some sugar maple and scattered softwood.																																																										
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11	42330 - Upland Fir	Poletimber Well	1.7	77	81-110	N/A	small diameter and areas of blowdown. 2020: Did not physically look at stand in the field.																																																										
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12	6122 - Black Spruce	Poletimber Well	11.4	83	51-80	N/A	Smaller diameter but still nice, west edge is extremely brushy. 2020: Poked around on west edge on way to stand 6. Decent wood along the edge, did not look at core of stand.																																																										
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13	6122 - Black Spruce	Poletimber Medium	4.8	71	1-50	N/A	2020: Did not physically look at stand in the field.																																																										
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14	6224 - Treed Bog	Nonstocked	8.7		Unspecified	No	2020: Did not physically look at stand in the field.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	6220 - Alder/willow	Nonstocked	44.2		Unspecified	No	Tag Alder, some areas are close to 25% forested.2020: tag alder with some scattered softwood/hardwood throughout, mostly non-merchantable.
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17	6124 - Lowland Spruce-Fir	Poletimber Medium	1.4	83	1-50	N/A	wet. 2020: Did not physically look at the stand in the field, small pocket of 4" plus stems surrounded by tag alder.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	6		Balsam Fir	High	Variable	Sapling
Paper Birch	10	Pole	6		Black Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	20	Pole	6		Tag Alder	Full	10 - 20 feet	Tall Shrub
Black Spruce	35	Pole/Log	10	83				
Northern White Cedar	10	Pole/Log	10					
Tamarack	20	Log/Pole	11					

18	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	15.9	75	81-110	N/A	Most of the Paper Birch is dead/dying and blowing over. Stand is regenerating to balsom and spruce. Heavy browse. Old road to the lakeshore in the north part of the stand. 2020: Did not physically look at stand in the field.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	Log	14		Red Maple	Low	5 - 10 feet	Sapling
Red Maple	4	Pole/Log	10		Paper Birch	High	Variable	Sapling
Yellow Birch	2	Pole/Log	10		Black Spruce	Medium	Variable	Sapling
Paper Birch	15	Pole/Log	10					
Quaking Aspen	5	Log	12					
Balsam Fir	21	Sapling/Pole	4	75				
White Spruce	15	Log	14					
Black Spruce	19	Pole	8					
Northern White Cedar	5	Log	14					
White Pine	10	XLog	22					

19	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	9.3	75	81-110	N/A	Trail to the west of stand from the Rabbit Bay road. Property lines are in. Areas of blowdown in stand. 2020: Did not physically look at stand in the field.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log	7		Balsam Fir	Full	Variable	Sapling
Yellow Birch	3	Pole	6		Black Spruce	High	Variable	Sapling
Paper Birch	10	Pole	8		Tag Alder	Low	10 - 20 feet	Tall Shrub
Quaking Aspen	3	Log	12					
Balsam Fir	21	Pole	5	75				
White Spruce	10	Pole/Log	10					
Black Spruce	20	Pole	8					
Northern White Cedar	15	Log	12					
White Pine	10	XLog	22					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>20</b>	42320 - Upland Spruce	Poletimber Well	28.4	87	81-110	N/A	Cut about 1/2 of stand to try and stagger the black spruce ages in the compartment. DBH's are variable 4-10". There is a grown over Grassy opening in the SW corner of the stand.2020: stand is currently under contract for harvest. No harvesting has taken place, expected to be cut in winter of 2020/21. Set up as clearcut with retention. Lots of deer sign in stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		2	Pole	5		Balsam Fir		
Quaking Aspen		2	Pole	8		Black Spruce		
Balsam Fir		5	Pole	6		Density		
White Spruce		2	Pole	6		Avg. Height		
Black Spruce		70	Pole	6	87	Size		
Northern White Cedar		7	Pole	8				
Tamarack		5	Pole	8				
White Pine		7	XLog	22				
<b>21</b>	6124 - Lowland Spruce-Fir	Poletimber Poor	5.4	62	1-50	N/A	Wet! 2020: Did not physically look at stand in the field.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		10	Sapling	3		Red Maple		
Balsam Fir		25	Sapling	4		Tag Alder		
Black Spruce		35	Pole	6	62	Density		
Tamarack		20	Pole	8		Avg. Height		
White Pine		10	Log	16		Size		
<b>22</b>	4319 - Mixed Upland Forest	Poletimber Well	6.8	88	81-110	N/A	Clear cut leaving White Pine and Cedar (and Hemlock if present). East chain of stand in situated on an inoperable slope.2020: Set up for clearcut with retention. No harvest activites have taken place to date. Expected to be harvested in winter of 2020/21.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Sugar Maple		2	Log	12		Balsam Fir		
Red Maple		15	Pole	7		White Pine		
Paper Birch		10	Pole/Log	8		Density		
Quaking Aspen		15	Log	16		Avg. Height		
Balsam Fir		35	Pole/Sapling	4	88	Size		
White Spruce		3	Pole/Log	9				
Black Spruce		2	Pole	7				
Northern White Cedar		3	Log	12				
White Pine		15	XLog	22				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**23** 42390 - Mixed Non-Pine Upland Conifers Poletimber Well 55.7 88 81-110 N/A Thick and variable drainage. stand is situated on the last bench before the lake.  
2020: Did not physically look at stand in the field.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log	10		Red Maple	Low	Variable	Sapling
Yellow Birch	2	Pole/Log	10		Yellow Birch	Low	Variable	Sapling
Paper Birch	10	Pole	8		Balsam Fir	Full	Variable	Sapling
Quaking Aspen	5	Log	14					
Balsam Fir	25	Pole	5	88				
White Spruce	5	Log	14					
Black Spruce	20	Pole	6					
Northern White Cedar	8	Pole/Log	10					
Tamarack	5	Pole/Log	10					

**24** 4319 - Mixed Upland Forest Poletimber Well 16.4 88 81-110 N/A Clear cut leaving White Pine and Cedar (and Hemlock if present). East chain of stand in situated on an inoperable slope.2020: Set up for clearcut with retention. No harvest activities have taken place to date. Expected to be harvested in winter of 2020/21.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	Log	12		Balsam Fir	Full	Variable	Sapling
Red Maple	15	Pole	7		White Pine	High	Variable	Sapling
Paper Birch	10	Pole/Log	8					
Quaking Aspen	15	Log	16					
Balsam Fir	35	Pole/Sapling	4	88				
White Spruce	3	Pole/Log	9					
Black Spruce	2	Pole	7					
Northern White Cedar	3	Log	12					
White Pine	15	XLog	22					

**25** 4113 - R.Maple, Conifer Sawtimber Well 17.0 97 51-80 N/A 2010: NE corner is poor quality hdwds and fir.2020: heavy deer browse, marked balson and spruce was not cut.2020: Maki's Mix first go around, cut around 2015.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	15	Log	14	97	Sugar Maple	High	Variable	Sapling
Red Maple	53	Log	12	97	Yellow Birch	Low	Variable	Pole
Yellow Birch	10	Log	16		Balsam Fir	Medium	Variable	Sapling
Paper Birch	2	Log/Pole	10		White Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	8		Northern White Cedar	Medium	>20 feet	Log
White Spruce	5	Log/Pole	12		Hemlock	Medium	>20 feet	Log
Northern White Cedar	5	Log	16					
Hemlock	5	XLog	18					

**26** 6224 - Treed Bog Nonstocked 2.0 Unspecified No 2020: Did not physically look at stand in the field.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**27**      4319 - Mixed Upland Forest      Poletimber Well      6.5      48      1-50      N/A      Old farm feild that has grown back to forest. Variable DBH's and Heights.2020: Did not physically look at stand in the field.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	3	
Paper Birch	5	Pole/Sapling	5	
Quaking Aspen	40	Sapling/Pole	4	48
Balsam Fir	13	Pole	8	
White Spruce	10	Log/Pole	12	
Northern White Cedar	5	Log	10	
White Pine	5	Log	12	
Red Pine	2	Log	12	
Jack Pine	5	Log	12	
Hemlock	5	Log	12	

**28**      4113 - R.Maple, Conifer      Sawtimber Well      3.5      97      51-80      N/A      2010: NE corner is poor quality hdwds and fir.  
2020: heavy deer brouse, marked balson and spruce was not cut.  
2020: Maki's Mix first go around, cut around 2015.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	15	Log	14	97	Sugar Maple	High	Variable	Sapling
Red Maple	53	Log	12	97	Yellow Birch	Low	Variable	Pole
Yellow Birch	10	Log	16		Balsam Fir	Medium	Variable	Sapling
Paper Birch	2	Log/Pole	10		White Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	8		Northern White Cedar	Medium	>20 feet	Log
White Spruce	5	Log/Pole	12		Hemlock	Medium	>20 feet	Log
Northern White Cedar	5	Log	16					
Hemlock	5	XLog	18					

**29**      4133 - Aspen, Mixed Pine      Sapling Poor      5.2      34      1-50      N/A      Old Farm feild converting back to forest.  
2020: Did not physically look at stand in the field.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	4	
Quaking Aspen	60	Sapling/Pole	4	34
White Spruce	10	Log	12	
White Pine	10	Pole	5	
Jack Pine	10	Sapling/Pole	3	
Hemlock	5	Pole	8	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**30** 6122 - Black Spruce Poletimber Well 6.5 73 81-110 N/A 2020: Did not physically look at stand in the field.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole	6		Red Maple	Low	>20 feet	Sapling
Paper Birch	2	Pole	6		Paper Birch	Low	>20 feet	Sapling
Balsam Fir	25	Pole	6		Balsam Fir	High	Variable	Sapling
Black Spruce	50	Pole	6	73	Black Spruce	Medium	Variable	Sapling
Northern White Cedar	15	Log	16					
White Pine	3	XLog	20					
Hemlock	2	XLog	20					

**31** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 16.1 109 111-140 N/A 2020: Did not physically look at stand in the field.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Log	14	109	Red Maple	High	Variable	Sapling
Paper Birch	25	Pole/Log	10		Balsam Fir	Full	Variable	Sapling
Quaking Aspen	5	Log	14		White Spruce	Low	< 5 feet	Sapling
Balsam Fir	5	Pole	6					
White Spruce	5	Log	14					
Northern White Cedar	5	Log	12					
White Pine	5	XLog	22					

**32** 3102 - Grass Nonstocked 4.3 Unspecified No 2020: Road and road ditch.

**33** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 13.9 88 51-80 N/A blowdown area in middle  
2020: Did not physically look at stand in the field.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		Paper Birch	High	>20 feet	Sapling
Yellow Birch	5	Pole	6		Balsam Fir	Full	Variable	Sapling
Paper Birch	10	Pole	8		Tag Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	10	Sapling/Pole	3					
White Spruce	5	Log	12					
Black Spruce	5	Pole	6					
Northern White Cedar	45	Pole	8	88				
White Pine	5	XLog	22					
Hemlock	5	Log	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>34</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	2.4	97	51-80	N/A	NE corner is poor quality hdwds and fir. 2020: Did not physically look at stand in the field.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		40	Log	14	97	Sugar Maple	
Red Maple		35	Log	12		Yellow Birch	
Yellow Birch		3	Log	16		Balsam Fir	
Paper Birch		2	Log/Pole	10		White Spruce	
Balsam Fir		5	Pole	8		Northern White Cedar	
White Spruce		5	Log/Pole	12		Hemlock	
Northern White Cedar		5	Log	16			
Hemlock		5	Log	18			
<b>37</b>	42320 - Upland Spruce	Poletimber Well	19.7	87	81-110	N/A	Cut about 1/2 of stand to try and stagger the black spruce ages in the compartment. DBH's are variable 4-10". There is a grown over Grassy opening in the SW corner of the stand. 2020: stand is currently under contract for harvest. No harvesting has taken place, expected to be cut in winter of 2020/21. Set up as clearcut with retention. Lots of deer sign in stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		2	Pole	5		Balsam Fir	
Quaking Aspen		2	Pole	8		Black Spruce	
Balsam Fir		5	Pole	6			
White Spruce		2	Pole	6			
Black Spruce		70	Pole	6	87		
Northern White Cedar		7	Pole	8			
Tamarack		5	Pole	8			
White Pine		7	XLog	22			