



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63085

Entry Year 2022

Acreage: 2,458

County Missaukee

Management Area: Houghton Lake Wetlands

Revision Date: 2020-04-07

Stand Examiner: Joe Ventimiglia

Legal Description:

T24N, R5W, Sections, 33,34,35,36.

Identified Planning Goals:

Vegetation management in the Houghton Lake Wetlands management area will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the aspen age-class distribution. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within the next decade are the need to continue to balance aspen age-class distributions, an expected increase in recreation pressure and invasive species encroachment.

Soil and topography:

Mostly flat swampland surrounding Deadstream and Addis Creek. Lupton-Roscommon-Tawas sands and mucks in the eastern half of the compartment.

Rubicon-Montcalm-Graycalm sands in the western half of the compartment.

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

Solid State ownership with some pipe line activity in western portion of compartment. Majority of compartment is roadless with limited access with the exception of western portion.

Unique Natural Features:

Dead steam swamp, see details below in Special Management Considerations section.

Archeological, Historical, and Cultural Features:

No historical or archaeological features listed.

Special Management Designations or Considerations:

Deadstream Swamp was dedicated by Governor and U.S. Dept. of Interior in January 1976 as a National Landmark representing one of the largest contiguous Northern White Cedar swamps in the U.S. The entire compartment east of the pipeline in section 33 is in Deadstream Swamp Area. A large portion of sections 34,35 and 36 has also been proposed as old growth. See the compartment for the stand boundary of proposed old growth.

Over the remaining area class diversity and a variety of cover types would be maintained that would favor game and non game species.

Watershed and Fisheries Considerations:

The Deadstream and Addis creek are both Designated Trout Streams, with wild populations of brook trout. Therefore, all BMPs should be followed along the streams and their associated wetlands.

Wildlife Habitat Considerations:

Featured wildlife species include deer, bear, ruffed grouse, woodcock, and beaver. Management objectives are to retain a variety of cover types and age class diversity as well as maintain and/or enhance habitat including work on openings and edges to preserve wildlife viewing and hunting opportunities.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck. Glacial drift thickness varies between 200 and 600 feet. There is minor relief within the compartment. Beneath the Glacial Drift is the Mississippian Michigan Formation. The Michigan Formation is used for gypsum in other areas of the State. The nearest gravel pits are within one mile to the southwest on the uplands. Gravel potential in the compartment is considered limited. Enterprise Field lies one mile to the south. The field has produced over 4.7 million BO from the Devonian Richfield Formation. It is in secondary recovery operations currently.

None of the State land is currently leased for oil and gas development, but there may be potential.

Vehicle Access:

Limited roads access with exception of seasonal county road that runs north south through section 33 and 34. Old bridge has been out for decades that used to access upland ridge in east portion of compartment. Roads are detailed on compartment map.

Survey Needs:

None

Recreational Facilities and Opportunities:

Hunting, trapping, fishing are the main recreation opportunities in the compartment. There are no developed recreational facilities in the compartment. Most of the compartment is inaccessible to wheeled vehicles.

Fire Protection:

Lowland ground would not allow the use of mechanized fire equipment. Fuel types would not support a large wildfire.

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:

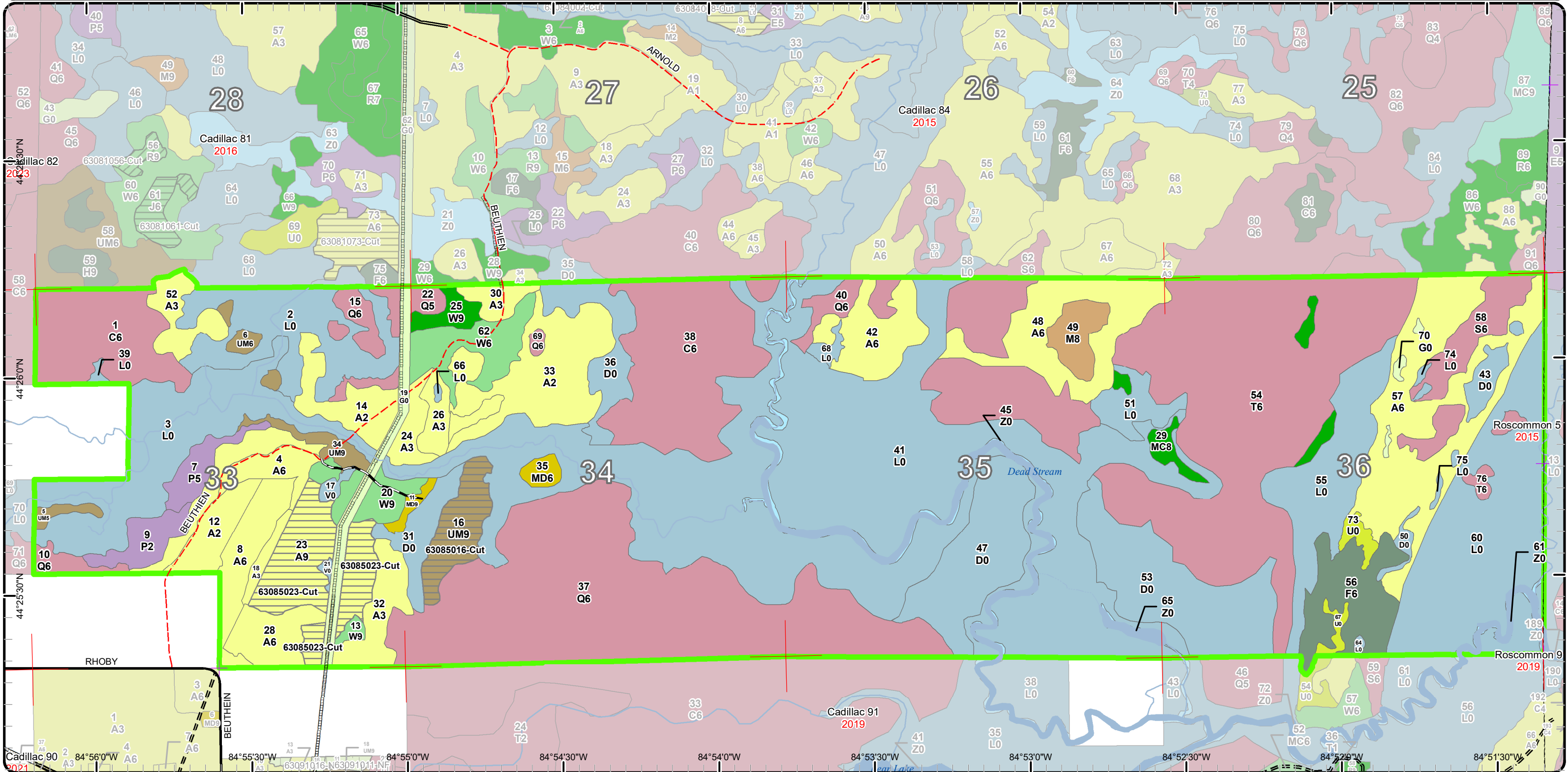
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Cover Type & Treatments Map

Compartment: 85
 T24N R05W - Sec. 33-36
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2022
 Acres: 2,458 GIS Calculated
 Examiner: Joe Ventimiglia
 Map Revised: 6/15/2020
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Dirt Road (Seasonal)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

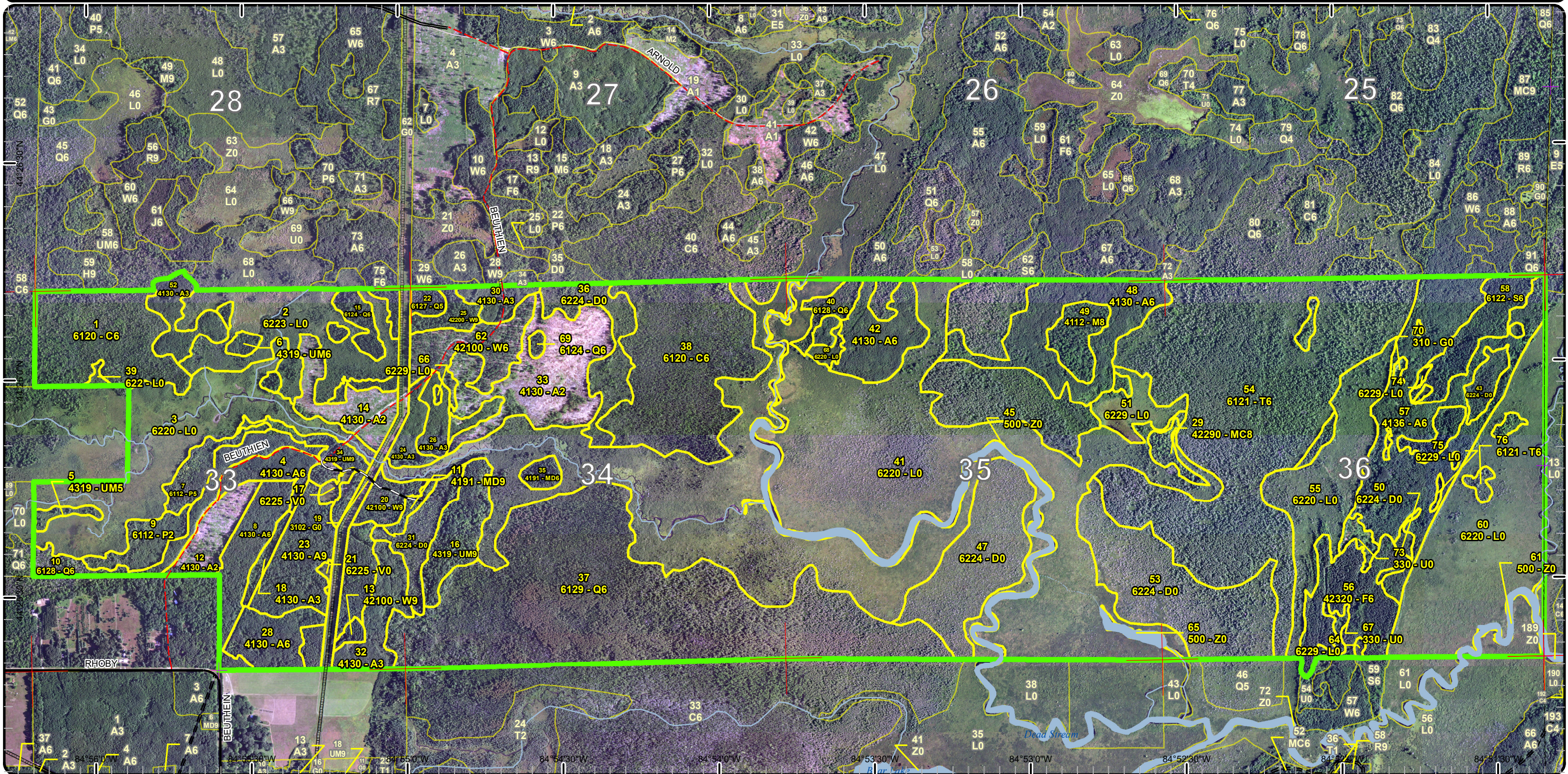


Stand Boundary Map

Compartment: 85
 T24N R05W - Sec. 33-36
 County: Missaukee
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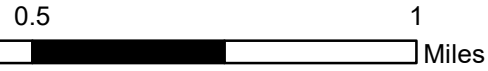


- Miris Corners
 - + Remonumented Section Corners
 - Counties
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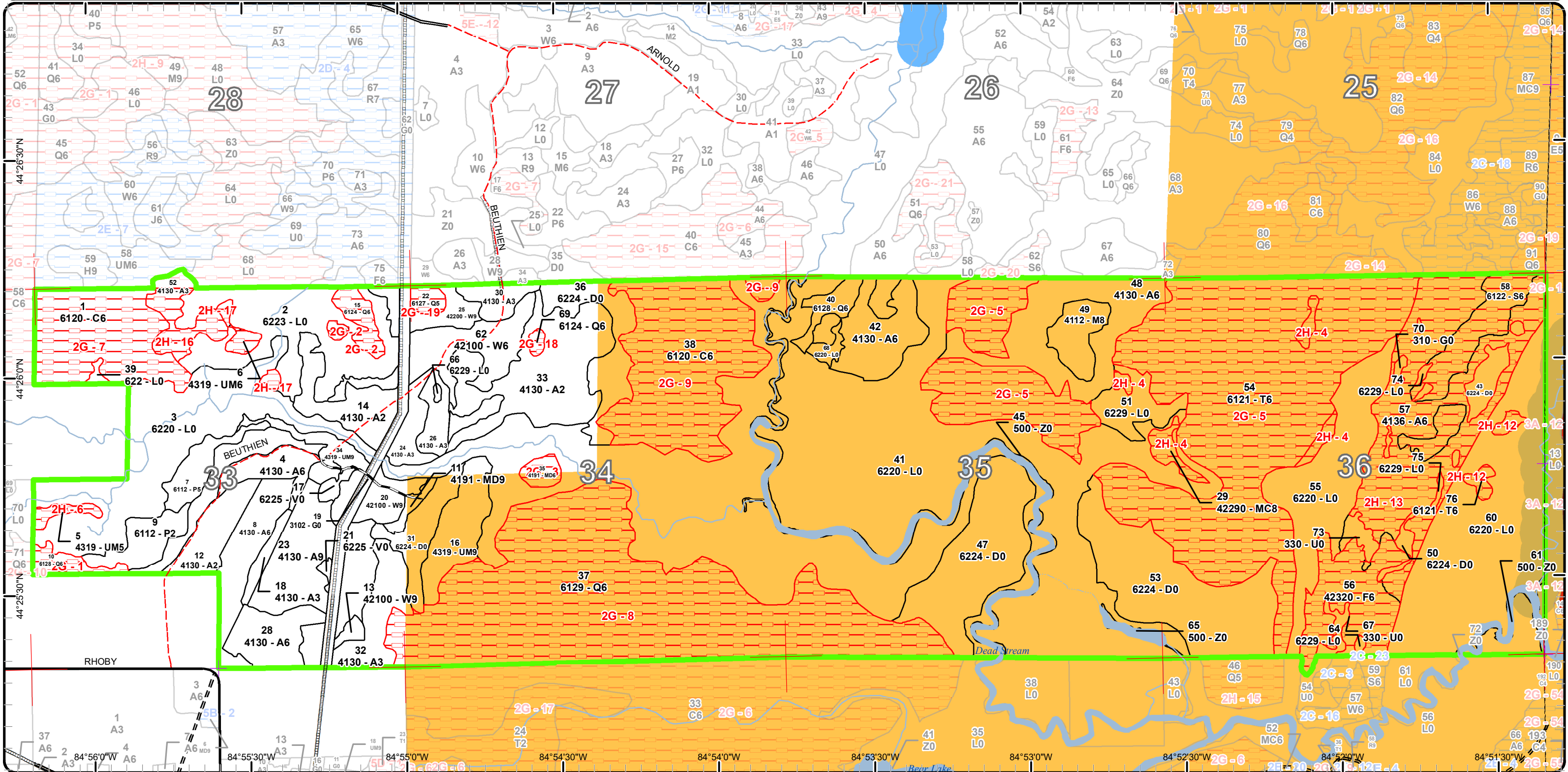


Special Conservation Areas

Compartment: 85
 T24N R05W - Sec. 33-36
 County: Missaukee
 Unit: Cadillac
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- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Non-Dedicated Natural Areas and National Natural Landmarks
- High Priority Trout Stream Buffer





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	93	47	133	40	0	138	0	0	0	0	0	0	0	0	0	0	0	450
Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Cedar	0	0	0	0	0	0	0	0	0	0	0	149	0	0	0	0	0	0	149
Herbaceous Openland	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	0	14	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Conifers	0	0	0	0	4	0	0	17	12	0	7	235	0	0	0	0	0	0	275
Lowland Shrub	818	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	818
Lowland Spruce/Fir	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0	28
Mixed Upland Deciduous	0	0	0	0	5	0	3	0	0	0	0	0	0	0	0	0	0	0	8
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	12
Northern Hardwood	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	14
Tamarack	0	0	0	0	0	0	0	0	0	0	305	5	0	0	0	0	0	0	310
Treed Bog	179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	178
Upland Mixed Forest	0	0	0	0	0	0	12	28	0	0	0	0	0	0	0	0	0	0	40
Upland Spruce/Fir	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	38
Water	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
White Pine	0	0	0	0	0	0	0	51	0	0	0	0	0	0	0	0	0	0	51
Total	1059	93	61	145	49	0	153	125	50	26	312	389	0	0	0	0	0	0	2459



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 85
Total Compartment Acres: 2,458

Commercial Harvest - 70
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	47	0	0	0	0	0	0	0	0	47
Upland Mixed Forest	22	0	0	0	0	0	0	0	0	22
Total	70	0	0	0	0	0	0	0	0	70

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	70	0	0	0	0	0	0	0	0	70
Next Step	0	0	0	0	0	70	0	0	0	70
Total	70	0	0	0	0	70	0	0	0	139



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

Proposed Treatments:

16	63085016-Cut	22.4	4319 - Mixed Upland Forest	Sawtimber Well	62	111- 140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<u>Prescription</u> Final Harvest leave retention island 3 to 5 percent of total acreage. As well leave any white pine over 20 inches in diameter. As well green											
<u>Specs:</u> ring(mark to leave) small 1 acre red pine pocket leaving 30 to 50 BA residual. Leave any cedar as well.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Mix of aspen, red maple, paper birch and white pine.											
<u>Regen:</u>											
<u>Other</u> Map retention in MIFI. Some mature red pine left to protect leave some structure and add diversity to stand. Access is difficult, will need to											
<u>Comment:</u> freeze in old road and skid wood to stand 20. Need to work with pipeline crossing but should not be issue as has been crossed historically . Pipeline will need to be crossed.											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
23	63085023-Cut	47.2	4130 - Aspen	Sawtimber Well	51	51-80	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<u>Prescription</u> Final Harvest leave retention island 3 to 5 percent of total acreage. Leave all white pine and red pine over 12 inches DBH. (very minor											
<u>Specs:</u> component of stand add little structure)											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen primary with minor mix of other species expected and desired .											
<u>Regen:</u>											
<u>Other</u> Map retention in MIFI and recommend winter or dry summer harvest only. Large pine speced to leave to protect/create a few legacy pine.											
<u>Comment:</u> Add grouse spec. Notify pipeline of activity . Pipeline will need to be crossed work with pipeline company. Pipeline in portion of stand as well.											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											

Total Treatment 69.6
Acreage Proposed:

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 85
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions			
		With Condition				2D	2E	2G	2H
452	345	0		106	Aspen		0	2	104
3	3	0		0	Bog				
149	0	0		149	Cedar		0	149	
21	21	0		0	Herbaceous Openland	0			
8	7	0		0	Low-Density Trees				0
25	25	0		0	Lowland Aspen/Balsam Poplar				
275	18	0		257	Lowland Conifers			257	
818	817	0		0	Lowland Shrub			0	0
29	0	0		29	Lowland Spruce/Fir				29
8	3	0		5	Mixed Upland Deciduous			5	
12	0	0		12	Natural Mixed Pines				12
14	14	0		0	Northern Hardwood				
310	0	0		310	Tamarack			305	5
178	178	0		0	Treed Bog				
39	30	0		9	Upland Mixed Forest				9
38	0	0		38	Upland Spruce/Fir				38
29	29	0		0	Water				
51	51	0		0	White Pine				
2,458	1,544	0		913	Total Forested Acres	0	0	717	196
	63%	0%		37%	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	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
 Joe Ventimiglia : Examiner

Compartment: 85
 Year of Entry: 2022

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	305	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 85
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7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	235	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	94	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	158	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Upland ridge that needs temp bridge and composite mats to reach. Has not been accessed in decades. Used to have a bridge historically. Composite mats and bridge were used in 2010 to access abandoned well that was leaking.							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 85
Year of Entry: 2022

16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cut by wildlife in past, habitat cut.							
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
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
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	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	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.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
1	6120 - Lowland Cedar	Poletimber Well	54.5	104	51-80	N/A	Large lowland conifer stand, very difficult foot access to isolated stand.																																																									
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>8</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>5</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>55</td> <td>Pole/Log</td> <td>8</td> <td>104</td> </tr> <tr> <td>Black Spruce</td> <td>15</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>1</td> <td>Log/Pole</td> <td>13</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>1</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	8	Log/Pole	10		Quaking Aspen	5	Pole/Log	9		Balsam Fir	10	Pole	6		Northern White Cedar	55	Pole/Log	8	104	Black Spruce	15	Pole/Log	8		White Pine	1	Log/Pole	13		Tamarack	5	Pole	7		Paper Birch	1	Pole	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	5 - 10 feet	Tall Shrub	Balsam Fir	Medium	Variable	Sapling		
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2	6223 - Inundated Shrub Swamp	Nonstocked	60.5	0	Unspecified	No	Mostly lowland shrub a few areas filling in with scattered lowland conifer.																																																									
3	6220 - Alder/willow	Nonstocked	91.4		Unspecified	No	Alder surrounding channel of Addis Creek. Stand also includes Addis Creek as the creek is too small to be an individual stand.																																																									
4	4130 - Aspen	Poletimber Well	12.2	26	Immature	N/A	Stand was finally harvested in 1994. Came back well to aspen needs another 20 years to mature.																																																									
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5	4319 - Mixed Upland Forest	Poletimber Medium	3.5	55	1-50	N/A	Small island in middle of tag/willow swamp. Few scattered trees otherwise filling in with lowland shrub. Very low quality small diameter stand.																																																									
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6	4319 - Mixed Upland Forest	Poletimber Well	5.2	65	Unspecified	N/A	Small pockets of spruce, red maple and aspen in middle of Addis creek swamp. Small stands unacceptable by commercial operation.																																																									
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7	6112 - Lowland Aspen	Poletimber Medium	11.5	25	Immature	N/A	Stand was cut 1994. Some lowland conifer left along edges along with all cedar was left as well. Stand is wet and flooded out to tag alder in spots.																																																				
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8	4130 - Aspen	Poletimber Well	40.4	36	1-50	N/A	Stand was KG blade cut by wildlife division in 1983. This was a technique that wildlife used to regenerate aspen prior to better aspen markets of modern era. 1983 cut missed southern peninsula of stand, this is a more mature mix of oak, red maple, aspen and pine too small to map.																																																				
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10	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	7.0	95	51-80	N/A	Mixed lowland conifer with some red maple/aspen. Attempted to be harvested when stand 9 was cut but became too wet.																																																				
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11	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	3.2	51	81-110	N/A	Sliver of mixed red maple, aspen, mixed conifer with some cedar/hemlock.																																																				
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12	4130 - Aspen	Sapling Medium	16.6	5	Immature	N/A	Stand was final harvested in 2016, a handful of red maple were left along with a few scattered red pine.																																																														
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13	42100 - Planted White Pine	Sawtimber Well	2.3	65	111-140	N/A	White pine that was last thinned in 2003. This was just a row thinning. Decent quality planted pine very small stand.																																																														
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15	6124 - Lowland Spruce-Fir	Poletimber Well	15.9	65	51-80	N/A	Mixed spruce, fir, maple aspen stand. Multiple part stand with majority of stand unacceptable without serious crane mat work to cross lowland shrub type.																																																														
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16	4319 - Mixed Upland Forest	Sawtimber Well	22.4	62	111-140	N/A	Isolated upland ridge of planted white pine in the north and aspen/fir/red maple in the rest . Scattered legacy white pine in middle of stand. Edge does have so lowland character with a few cedar.																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
17	6225 - Bog	Nonstocked	2.5		Unspecified	No	Small bog with some lowland conifer scattered.																																													
18	4130 - Aspen	Sapling Well	4.7	18	Unspecified	N/A	Stand was final harvested in 2002.																																													
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19	3102 - Grass	Nonstocked	19.3		Unspecified	No	Pipeline. This stand also includes some lowland areas and a stream crossing.																																													
20	42100 - Planted White Pine	Sawtimber Well	15.5	60	81-110	N/A	Stand was row thinned in 2003 and was marked thinning in 2016 all aspen and hardwood was cut at that time within plantation. Decent quality white pine planation with aspen/red maple regeneration in understory from cut.																																													
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21	6225 - Bog	Nonstocked	1.0	0	Unspecified	No	Few scattered trees.																																													
22	6127 - Lowland Pine	Poletimber Medium	4.1	35	1-50	N/A	Treed bog that has filled in over time, very hummocky ground, unique stand. See from old 1988 imagery that no trees were in this open bog at that time.																																													
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23	4130 - Aspen	Sawtimber Well	47.2	51	51-80	N/A	Stand was final harvested in 1969. Older block of aspen left in this compartment. Mostly upland but center portion west of pipeline does have a seasonal wet area that is very hummocky. Quality is better on the east end of stand.																																													
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24	4130 - Aspen	Sapling Well	13.1	18	Immature	N/A	Final harvested in 2002. A few white pine were left along the edge.																																																						
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25	42200 - Natural White Pine	Sawtimber Well	7.6	63	81-110	N/A	Treed bog that has filled in over time, very hummocky ground, unique stand. White pine in stand appears to be from 1960 planting although stand has a natural feel as rough ground made planting in rows impossible.																																																						
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26	4130 - Aspen	Sapling Well	8.4	22	Immature	N/A	Stand was final harvested in 1998, temp bridge was installed.																																																						
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28	4130 - Aspen	Poletimber Well	19.2	26	Immature	N/A	Stand was final harvested in 1994. Came back well to primarily aspen, just into pole class.																																																						
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29	42290 - Natural Mixed Pine	Sawtimber Medium	11.8	83	81-110	N/A	Mixed upland small rides of white and red pine.																																																						
30	4130 - Aspen	Sapling Well	8.5	18	Unspecified	N/A	Stand was final harvested in 2002. Handful of white and red pine were left.																																																						
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31	6224 - Treed Bog	Nonstocked	16.7		Unspecified	No	Mixed lowland shrub with lowland conifer slowly filling in.																																																		
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Tag Alder	Medium		Tall Shrub																																																						
32	4130 - Aspen	Sapling Well	20.2	18	Unspecified	N/A	Stand was final harvested in 2002. Came back well to aspen wet along east edge.																																																		
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33	4130 - Aspen	Sapling Medium	55.7	4	Immature	N/A	Stand was final harvested in 2016. Was part of sale that required temp bridge across Addis Creek. Came back patchy some areas have flooded out to more open state while others are slowly filling into to red maple and aspen.																																																		
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Northern White Cedar	2	Pole/Log	8																																																						
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34	4319 - Mixed Upland Forest	Sawtimber Well	7.9	55	51-80	N/A	Mixed upland stand along edge of Addis creek. White pine component likely from failed interplanting of pine attempted in 1960 judging from records.																																																		
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35	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.6	37	51-80	N/A	Stand was habitat cut by wildlife in 1982. All trees were cut and left on site.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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36 6224 - Treed Bog Nonstocked 24.5 Unspecified No Mixed lowland shrub with scattered in lowland conifer.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium		Tall Shrub

37 6129 - Mixed Coniferous Lowland Forest Poletimber Well 234.8 108 Unspecified N/A Large wet lowland conifer complex. Very dense and thick stand. Center east wing of stand appears from imagery to be more spruce/tamarack and treed bog .

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole/Sapling	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
Black Spruce	10	Pole/Sap/Log	7		Red Maple	Low	Variable	Sapling
Northern White Cedar	40	Pole/Log	8	108				
White Pine	4	Log	14					
Tamarack	25	Pole	7					

38 6120 - Lowland Cedar Poletimber Well 94.3 108 51-80 N/A Large lowland conifer cedar dominated stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sap/Log	8		Balsam Fir	Low	10 - 20 feet	Sapling
Paper Birch	5	Pole	7		White Pine	Low	5 - 10 feet	Sapling
Balsam Fir	10	Pole/Log/Sap	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	60	Pole/Log	8	108				
Tamarack	5	Pole/Log	8					
White Pine	5	Log/XLog	13					
Black Spruce	10	Pole	7					

39 622 - Lowland Shrub Nonstocked 1.3 0 Unspecified No

40 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 11.5 75 Unspecified N/A Mixed lowland stand avoided when stand 42 was cut.

41 6220 - Alder/willow Nonstocked 459.1 Unspecified No Stand is a mix alder and tamarack. Also contains the channel of the deadstream river/creek. Large lowland shrub complex, scattered lowland conifer trees attempting to get going in these very wet conditions.

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Trace		Pole
Tag Alder	Full	Unspecified	Tall Shrub

42 4130 - Aspen Poletimber Well 29.1 25 Immature N/A Stand was cut in 1995 was part of larger cuts to the north. Ice road was froze in from the north to access stand. Just barely into pole size still sapling in spots.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	5	
Quaking Aspen	85	Pole/Sapling	5	25
White Pine	2	Pole/Sapling	6	
Black Cherry	2	Sapling/Pole	4	
Balsam Fir	6	Sapling/Pole	4	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
43	6224 - Treed Bog	Nonstocked	8.4	0	Unspecified	No	Lowland treed bog filling in with lowland conifer.																																				
45	500 - Water	Nonstocked	21.6		Unspecified	No	Main channel of the dead stream river/creek.																																				
47	6224 - Treed Bog	Nonstocked	55.1		Unspecified	No	Wet with tag and Tamarack.																																				
48	4130 - Aspen	Poletimber Well	48.9	26	Immature	N/A	Stand was final harvested commercially in 1994/95, winter ice road job from the north. Came back well to primarily aspen, just into pole size nearly still sapling stand.																																				
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49	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	13.9	85	51-80	N/A	Stand was cut in 1999. All red maple 12 inches and over for cut along with any aspen. Diameter limit cut. Any beech, cherry and oak was left. Appears to have some wet pockets in stand. Left with 50 to 90 BA of decent quality red and sugar maple with occasional cherry/ wolfy beech. Surprising maple regen recruiting from cut.																																				
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50	6224 - Treed Bog	Nonstocked	2.9	0	Unspecified	No																																					
51	6229 - Mixed lowland shrub	Nonstocked	14.9		Unspecified	No	Wet hole																																				
52	4130 - Aspen	Sapling Well	15.0	26	51-80	N/A	Habitat cut between 1992 and 1996. No commercial management access. Multiple winters to habitat cut.																																				
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53	6224 - Treed Bog	Nonstocked	70.9		Unspecified	No	Mixed lowland shrub filling into treed conifer bog.																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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54	6121 - Tamarack	Poletimber Well	305.0	95	51-80	N/A	Large lowland conifer complex that is part of dead stream swamp. This stand is unique in that tamarack is the primary species present by far, while much of the rest of the conifer swamps nearby are dominated by cedar.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Tamarack		75	Pole/Log	9	95	Tag Alder		High	5 - 10 feet	Tall Shrub	
Red Maple		2	Pole	8		Balsam Fir		Low	< 5 feet	Sapling	
Northern Pin Oak		15	Pole/Log	8		White Pine		Low	Variable	Sapling	
White Pine		1	Log/Pole	13		Red Maple		Trace	Variable	Sapling	
Paper Birch		2	Pole	7							
Balsam Fir		5	Pole/Sapling	7							

55	6220 - Alder/willow	Nonstocked	57.3		Unspecified	No	
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56	42320 - Upland Spruce	Poletimber Well	38.1	70	111-140	N/A	Good quality black spruce stand sitting on isolated ridge of
Canopy Species		% Cover	Size Class	DBH	Age		
Black Spruce		90	Pole/Log	9	70		
Tamarack		3	Pole/Log	9			
Balsam Fir		1	Pole/Log	9			
Quaking Aspen		2	Log/Pole	9			
Red Pine		2	Log	13			
White Pine		2	Log/Pole	13			

57	4136 - Aspen, Mixed Conifer	Poletimber Well	91.2	50	51-80	N/A	Stand was final harvested in 1969 from records. Western portion of stand was interplanted with white pine in 1960. Some areas planted pine took better than others. Overall stand is a poor quality aspen mixed with oak, red maple, fir and scattered pine. Some legacy red and white pine in stand. Unique in the fact that no motorized vehicles can reach ridge as well as unique in relative remoteness of area for NLP.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		54	Pole/Log	8	50	Balsam Fir		Low	Variable	Sapling	
White Pine		12	Pole/Log/XLog	9	60	Red Oak		Medium	Variable	Sapling	
Balsam Fir		5	Pole/Log	9		White Pine		Low	5 - 10 feet	Sapling	
Red Oak		15	Log/Pole	13		Red Maple		Medium	10 - 20 feet	Sapling	
Red Pine		5	Log/XLog	14							
Red Maple		5	Log/Pole	13							
Paper Birch		2	Pole/Log	9							
Black Spruce		1	Pole/Log	9							
Black Cherry		1	Pole/Log	9							

58	6122 - Black Spruce	Poletimber Well	28.5	65	81-110	N/A	Primarily black spruce stand, hummocky ground with significant variability on spruce size and quality. Some planted white pine here and there as well as scattered legacy white pine.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		10	Pole/Log/XLog	9		Balsam Fir		Low	Variable	Sapling	
Black Spruce		80	Pole/Log	8	65						
Quaking Aspen		2	Pole/Log	9							
Red Maple		2	Log/Pole	11							
Paper Birch		2	Pole/Log	8							
Tamarack		4	Pole/Log	9							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
60	6220 - Alder/willow	Nonstocked	126.1		Unspecified	No	
61	500 - Water	Nonstocked	4.9		Unspecified	No	Stand is a portion of the dead stream river/creek.
62	42100 - Planted White Pine	Poletimber Well	25.8	63	51-80	N/A	Stand was planted to white pine in 1960. Stand was thinned in 2016, with all aspen/red maple cut at that time too. Ok quality still pole size overall approaching log size.
64	6229 - Mixed lowland shrub	Nonstocked	0.8	0	Unspecified	No	
65	500 - Water	Nonstocked	2.4		Unspecified	No	
66	6229 - Mixed lowland shrub	Nonstocked	0.6	0	Unspecified	No	
67	330 - Low-Density Trees	Nonstocked	3.2	0	Unspecified	No	
68	6220 - Alder/willow	Nonstocked	3.1	0	Unspecified	No	
69	6124 - Lowland Spruce-Fir	Poletimber Well	1.5	65	81-110	N/A	Small island of lowland conifer that was avoided when stand 33 was cut. Stagnant wet stand.
70	310 - Herbaceous Openland	Nonstocked	2.0	0	Unspecified	No	Small openings created by wildlife division decades ago have not been managed as a result of limited access.
73	330 - Low-Density Trees	Nonstocked	4.4	0	Unspecified	No	
74	6229 - Mixed lowland shrub	Nonstocked	1.4	0	Unspecified	No	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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75	6229 - Mixed lowland shrub	Nonstocked	1.3	0	Unspecified	No	
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76	6121 - Tamarack	Poletimber Well	4.6	102	1-50	N/A	Mixed lowland conifer island in the middle of dead stream swamp.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	50	Pole/Log	8	102	Balsam Fir	Medium	Variable	Sapling
White Pine	2	Log/Pole	14					
Northern White Cedar	40	Pole/Log	9					
Red Maple	2	Pole/Log	9					
Hemlock	2	Pole/Log	9					
Black Spruce	4	Pole/Log	8					