



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63109

Entry Year 2025

Acreage: 1,266

County Missaukee

Management Area: Cadillac Moraines

Stand Examiner: Michael Aksamit

Legal Description:

22 N, R 7W, Sections 1,2, 11 and 12

Identified Planning Goals:

Continue management of scattered aspen, jack pine and red pine stands for habitat and forest products. Consider treatments of lowland areas where accessible and not limited by hydrology within the context of management for wildlife habitat and forest products.

Soil and topography:

Low areas are Lupton muck, Kawkawlin loam with upland being Emmet-Montcalm and Graycalm.

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

The area is located 5 miles east of Lake City and surrounded by private tracts of agricultural upland. Various land exchanges have helped to consolidate ownership. The private parcels in the E 1/2 of the SE 1/4 in Section 2 and E1/2 of the NE 1/4 of Section 11 should be given top priority for acquisition.

Unique Natural Features:

Great blue heron rookery to ne. Bigmouth shiner to s, s/se, and ne. Round pigtoe (mussel) to w/sw. Potential for great blue heron rookery, bald eagle, wood turtle, Blanding's turtle, eastern massasauga, and osprey. Potential for marsh birds: common moorhen, least bittern, king rail, yellow rail, and American bittern.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

A tributary of the West Branch of the Clam River flows through the northeast corner of this compartment. (R. O'Neal, 8/24/2013).

Wildlife Habitat Considerations:

The NW portion of this compartment is land purchased with State Game Fund. SW corner holds Pittman Roberson purchased land.

This compartment is in the Highplains Ecosystem, Cadillac Subsection, LTA 5149 and 5211. In LTA 5149, soils are generally poorly drained organics with inclusions of poorly to moderately well drained sands. Historic vegetation included mixed lowland conifers, cedar, or tamarack swamps with forests of hemlock, mixed with beech or white pine on sandy areas. In LTA 5211, soils are deep, excessively drained sands with low natural fertility. Historic vegetation was a variety of conifer dominated forests. Wildlife management objectives are to maintain the area as a natural area and to manage the aspen on a 50-60 year rotation. Featured species of species interest are deer, woodcock, ruffed grouse, and snowshoe hare. (E. Victory, 8/21/13)

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay/shale in other parts of the State. A gravel pit is located one mile to the east and gravel potential is considered good. The compartment is located two miles north of Falmouth Field. The field has produced from the Stray Sandstone, Dundee, Richfield and Prairie du Chien. The entire Compartment is leased for oil and gas development. (T. Hoane, 3/6/2013).

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the

DNR that are proposed for closure. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

Survey Needs:

Survey will be needed to harvest Stands 3, 5, 6, 8, and 11.

Recreational Facilities and Opportunities:

There are no designated recreational trails or facilities within this compartment. Dispersed recreation opportunities include hunting and trapping. (T.M.N., 8/26/2013).

Fire Protection:

Small and large tracts with homes and other structures that could be threatened by wildfire, are around the perimeter of the compartment. Access to the compartment is adequate and could be improved for emergency needs. There is the possibility of large fire growth on Very High and Extreme days. Resource damage could occur on those days. The most likely cause of a wildfire would be from the private property outside the compartment boundary. (B. Tower, 2013).

Additional Compartment Information:

The following reports from the Inventory are attached:

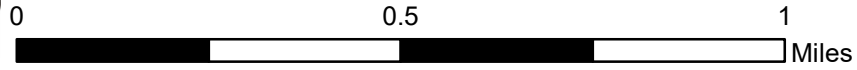
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

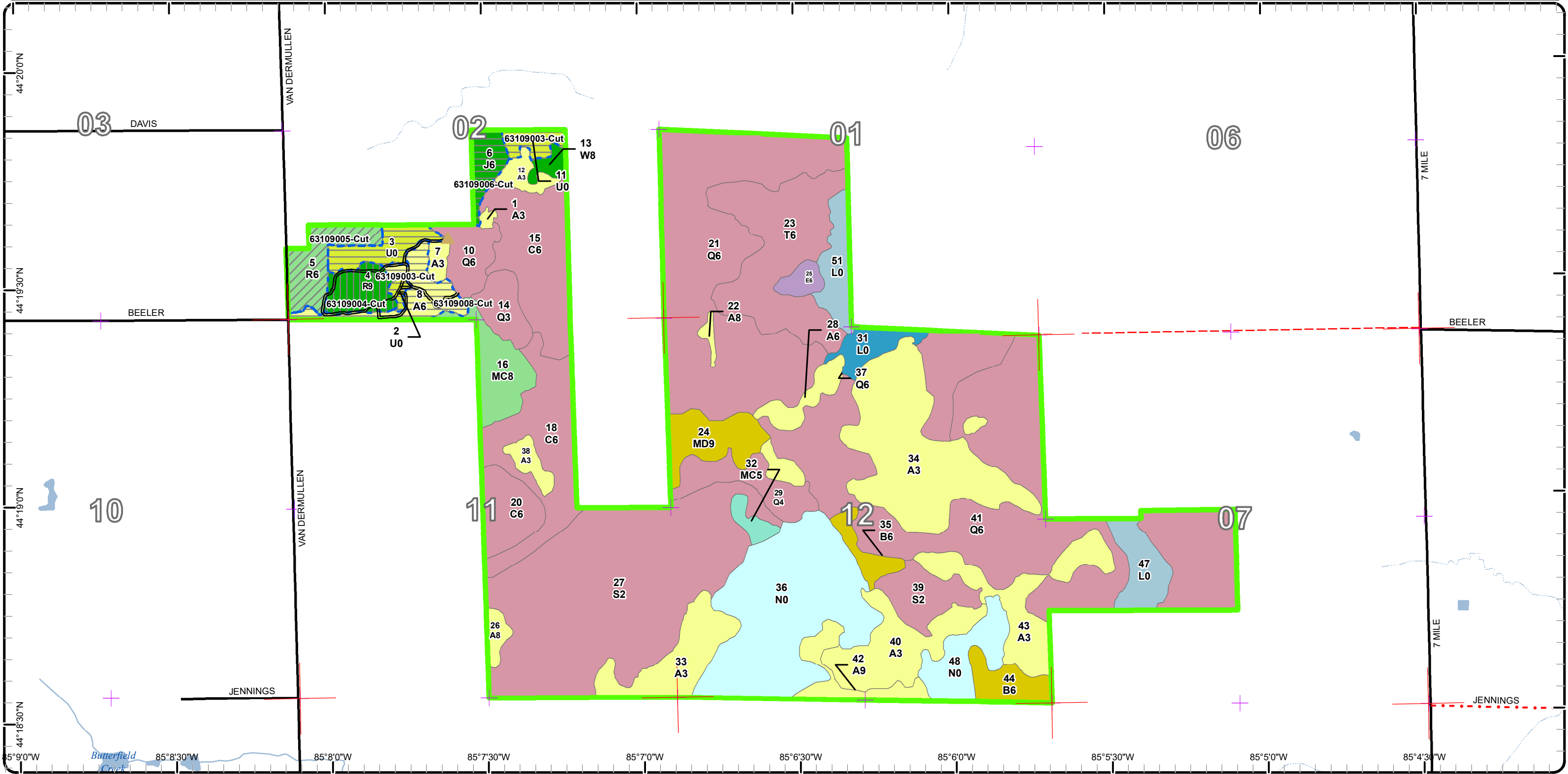
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Cover Type & Treatments Map

Compartment: 109
 T22N-R07W Sec. 1,2,11,12
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Cadillac Moraines
 YOE: 2025
 Acres: 1265.7 GIS Calculated
 Examiner: Michael Aksamit
 Map Revised: 10/19/2023
 Map Phase: Post-Maps

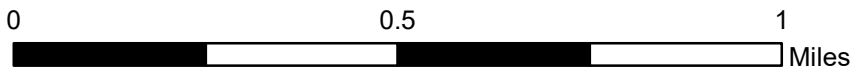
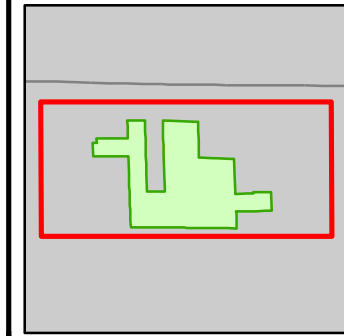


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- ▲ Berms
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

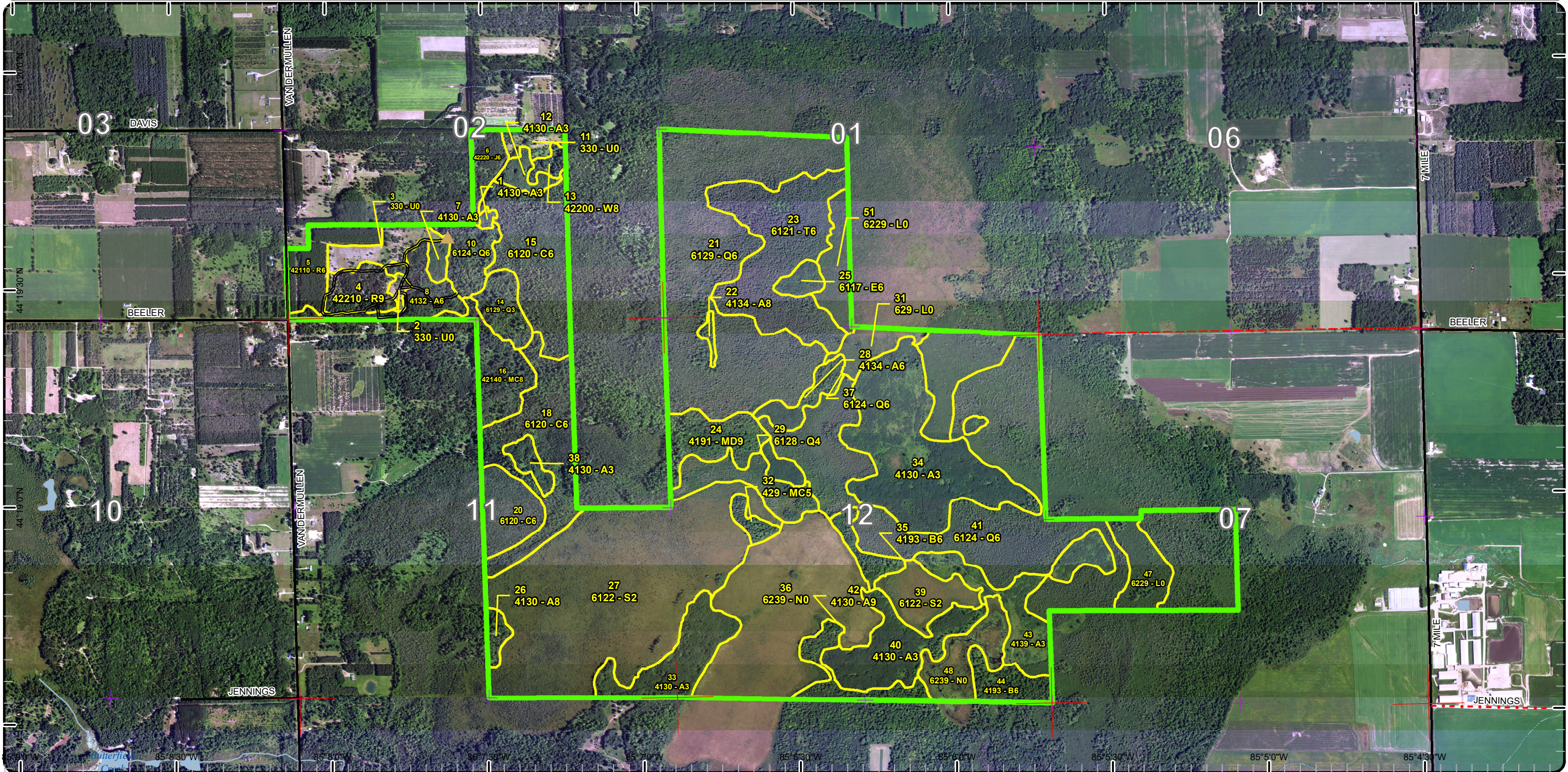


Stand Boundary Map

Compartment: 109
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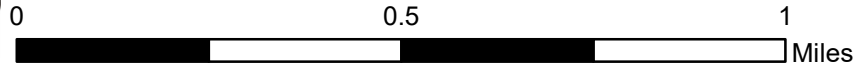


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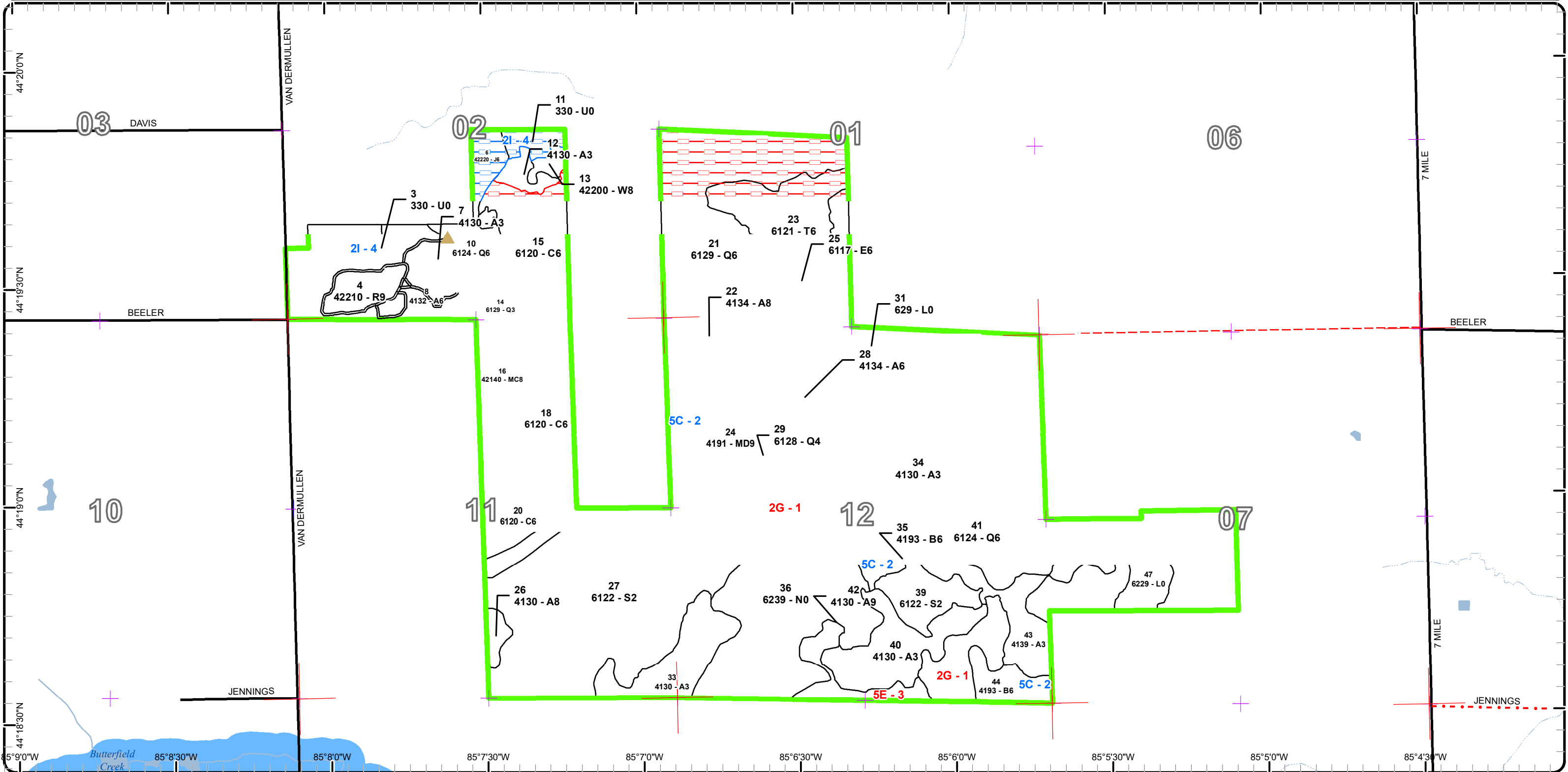


Special Conservation Areas

Compartment: 109
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 County: Missaukee
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 - ▲ Berms
 - Intermittent Stream
 - Lake/Pond
 - Perennial River
 - Lakes and Rivers
 - Compartment Boundary
 - Available w/ Constraints
- 2I: Survey needed
 - 5C: Delay treatment for age/size class diversity or exceptional site quality
 - Unavailable
 - 2G: Too wet (sensitive soils, does not include access issues)
 - 5E: Long-Term Retention
 - Stand Boundaries
 - 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	0	138	63	0	0	17	0	0	18	0	2	0	0	0	0	0	0	238
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	18	0	92	0	0	0	110
Jack Pine	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Low-Density Trees	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Conifers	0	0	0	13	0	0	19	193	0	0	0	160	0	0	0	0	0	0	384
Lowland Deciduous	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
Lowland Shrub	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Lowland Spruce/Fir	0	0	0	0	0	0	163	18	0	0	0	0	0	0	0	0	0	0	181
Marsh	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	20
Paper Birch	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	20
Planted Mixed Pines	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	20
Red Pine	0	0	0	0	18	0	0	0	13	0	0	0	0	0	0	0	0	0	31
Tamarack	0	0	0	0	0	0	0	0	0	0	0	63	0	0	0	0	0	0	63
Upland Conifers	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4
Total	174	0	138	76	27	0	199	262	13	38	0	225	18	4	92	0	0	0	1263



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 109

Total Compartment Acres: 1,266

Commercial Harvest - 13
 Harvests with Site Condition - 65
 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	17	0	0	0	0	0	0	0	0	17
Jack Pine	9	0	0	0	0	0	0	0	0	9
Low-Density Trees	21	0	0	0	0	0	0	0	0	21
Red Pine	0	0	0	0	13	18	0	0	0	32
Total	47	0	0	0	13	18	0	0	0	79

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	79	0	0	0	0	0	0	0	0	79
Next Step	0	0	0	0	34	0	120	0	0	154
Total	79	0	0	0	34	0	120	0	0	232



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:

3	63109003-Cut	20.5	330 - Low-Density Trees	Nonstocked		Unspecified	Harvest	Clearcut	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Clearcut all trees within opening during harvest operations on adjacent stands. Cut all merchantable and unmerchantable timber. Mark a handful of log sized Red Pine or Black Cherry to retain if desired.</p> <p><u>Next Step Treatments:</u> Burn, Opening; Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Grasses, reindeer moss.</p> <p><u>Other Comment:</u> Burn post harvest to eliminate any remaining slash and woody encroachment to help maintain an open state.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
4	63109004-Cut	13.1	42210 - Natural Red Pine	Sawtimber Well	71	111-140	Harvest	Shelterwood	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Leave tree mark to a residual basal area of 30-50, focusing on retaining the largest x-log Red and White Pine first, followed by good form log sized trees. Space crowns out to avoid continuous canopy coverage when able. Remove slash through sale conditions if possible to facilitate future burning.</p> <p><u>Next Step Treatments:</u> Burn, Understory; Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> The goal of this treatment and follow up burn is to create a red pine savannah with a grassy understory.</p> <p><u>Other Comment:</u> Burn post harvest with stand 3 to the north.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
5	63109005-Cut	18.4	42110 - Planted Red Pine	Poletimber Well	36	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Row thin Red Pine utilizing a take one, leave two OR a take two, leave four pattern depending on needs for equipment access.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</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
6 63109006-Cut	9.2	42220 - Natural Jack Pine	Poletimber Well	38	Unspec ified	Harvest	Clearcut	42220 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut stand, no retention due to small size. If desired, could mark some red pine or hardwoods to keep. Cut right up to property line to re-establish ownership.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine, red pine, white pine, mixed hardwoods.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand could be held for the next entry at the discretion of the staff performing sale prep.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
8 63109008-Cut	17.3	4132 - Aspen, Jack Pine	Poletimber Well	55	Unspec ified	Harvest	Clearcut with Retention	4132 - Aspen, Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut stand. Re-establish private line. Utilize grouse drumming log spec. Focus retention pockets on less mature areas.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, Jack Pine, Red Pine, Balsam Fir</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand could be held for the next entry at the discretion of the staff performing sale prep.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Total Treatment 78.5
Acreage Proposed:

Report 4 – Site Conditions

Cadillac Mgt. Unit

Michael Aksamit : Examiner

Compartment: 109

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2I	5C	2G	5E
237	200	17	20	Aspen	17		6	14
110	0	0	110	Cedar			110	
9	0	9	0	Jack Pine	9			
21	2	19	0	Low-Density Trees	19			
385	14	0	371	Lowland Conifers			371	
5	0	0	5	Lowland Deciduous			5	
41	0	0	41	Lowland Shrub			41	
181	0	0	181	Lowland Spruce/Fir			181	
112	0	0	112	Marsh			112	
20	0	20	0	Mixed Upland Deciduous		20		
20	0	20	0	Paper Birch		20		
21	21	0	0	Planted Mixed Pines				
32	13	18	0	Red Pine	18			
63	0	0	63	Tamarack			63	
5	5	0	0	Upland Conifers				
4	4	0	0	White Pine				
1,266	258	104	903	Total Forested Acres	64	40	890	14
	20%	8%	71%	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)	890	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
A large lowland complex covers the majority of Compartment 63109. There are isolated upland pockets but access would be difficult & likely not worth it for the volume of timber that could be harvested.							

Report 4 – Site Conditions

Cadillac Mgt. Unit

Compartment: 109

Michael Aksamit : Examiner

Year of Entry: 2025

2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2I: Survey needed	64	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

Mgt. Unit

Compartment:

Year of Entry



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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																															
1	4130 - Aspen	Sapling Well	1.2	24	Immature	N/A	Cut in Timber Sale #62-028-96-01 "Sconian Aspen"																															
<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>Quaking Aspen</td> <td>100</td> <td>Sapling</td> <td>3</td> <td>24</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	100	Sapling	3	24	<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>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Sapling																	
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2	330 - Low-Density Trees	Nonstocked	2.0		Immature	No	2023 Inventory Comments: Low density trees. Cut with adjacent stands then burn.																															
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3	330 - Low-Density Trees	Nonstocked	12.1		Unspecified	No	2023 Inventory Comments: Unmanaged opening per WL Biologist. Mixture of grasses and reindeer moss. Significant encroachment from pine species. WLD would like to see it opened back up. Clearcut all trees within opening with adjacent harvests. RxB post harvest to maintain as grassy opening. 2012 Inventory Comments: Not sure if this opening is managed. There is some encroachment from woody vegetation in the form of white pine and cherry.																															
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4	42210 - Natural Red Pine	Sawtimber Well	13.1	71	111-140	N/A	2023 Inventory Comments: Highly variable stand. Some very large log sized Red and White Pine scattered throughout. Some pole sized Red Pine in the eastern half. Hardwood saplings growing throughout, as well as small White Pine. Possible archaeological site near the western edge; piles of field stone and large depression in ground. 2012 Inventory Comments: Stand density and tree sizes are highly variable.																															
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Red Pine	Low	Variable	Sapling																																			
Black Cherry	Low	Variable	Sapling																																			
5	42110 - Planted Red Pine	Poletimber Well	18.4	36	171-200	N/A	2023 Inventory Notes: Cored a 9" DBH interior tree and counted an age of 36. Pole sized stand with log sized component. Doesn't appear to have been thinned before. Powerline cuts off western 1/4 along road. BA Plots: 170, 180, 200, 180, 180, 200, 170. 2012 Inventory Notes: Will probably need to do a 3rd row thin at the next rotation. Trees are somewhat limby and short, but the BA is high and there may be mortality if the trees are not thinned soon.																															
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6	42220 - Natural Jack Pine	Poletimber Well	9.2	38	Unspecified	N/A	2023 Inventory Comments: Poor form natural Jack Pine with varying sizes and densities. Occasional overstory Red Pine or Cherry. Could cut this entry or wait until next to get more size. Western edge of stand has barbed wire fence that may not run along the line. If cut, get corners and cut right up to private line to reestablish. 2012 Inventory Comments: May want to consider treatment next entry.																															
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7	4130 - Aspen	Sapling Well	3.6	25	Immature	N/A	Cut in Timber Sale #62-028-96-01 "Sconian Aspen"																															
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8	4132 - Aspen, Jack Pine	Poletimber Well	17.3	55	Unspecified	N/A	2023 Inventory Comments: Low quality Aspen of varying sizes. Some is immature and some is almost log sized. Jack Pine in northern half of stand, consider clear cutting with adjacent stands, allow for natural regeneration. 2013 Inventory Comments: Low volume, mixed pole & sap about 50/50.																																										
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10	6124 - Lowland Spruce-Fir	Poletimber Well	14.1	65		N/A																																											
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11	330 - Low-Density Trees	Nonstocked	6.4	0	Unspecified	No	2023 Inventory Comments: Unmanaged opening with encroachment from Jack and Scotch Pine. Occasional short log sized Red Pine. Barbed wire fence along northern edge may be in Trespass, request survey with timber sale. 2012 Inventory Comments: Low density scattered trees in grass areas. Possibly an old opening that has woody encroachment. trace natural red pine, red maple, cherry.																																										
12	4130 - Aspen	Sapling Well	6.0	24	Immature	N/A	Cut in Timber Sale #62-028-96-01 "Sconian Aspen"																																										
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13	42200 - Natural White Pine	Sawtimber Medium	3.7	122	81-110	N/A	2012 Inventory Comments: Trace Aspen, Red Pine, White Spruce, and Balsam.																																										
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14	6129 - Mixed Coniferous Lowland Forest	Sapling Well	12.5	24	Immature	N/A	Cut in Timber Sale #62-028-96-01 "Sconian Aspen"																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
15	6120 - Lowland Cedar	Poletimber Well	45.5	135		N/A	trace hemlock, paper birch, white spruce.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		90	Pole/Log	9	135	Red Maple	Low	Variable	Sapling
Balsam Fir		5	Pole/Sapling	6	50	Balsam Fir	High	Variable	Sapling
White Spruce		5	Pole	8	135				
16	42140 - Planted Mixed Pine	Sawtimber Medium	20.5	66	1-50	N/A	Cut in Timber Sale #62-028-96-01 "Sconian Aspen"		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		50	Log/XLog	16	66	White Spruce	Low	Variable	Sapling
Red Pine		50	Log/XLog	16	66	White Pine	Low	Variable	Sapling
						Red Maple	High	10 - 20 feet	Sapling
						Tamarack	Low	Variable	Sapling
						Quaking Aspen	Low	10 - 20 feet	Sapling
						Balsam Fir	Low	5 - 10 feet	Sapling
18	6120 - Lowland Cedar	Poletimber Well	46.0	135		N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		5	Pole/Log	8					
Quaking Aspen		5	Log	10					
Balsam Fir		35	Sapling/Pole	4					
Northern White Cedar		50	Pole	6	135				
White Pine		5	Log	14					
20	6120 - Lowland Cedar	Poletimber Well	18.4	110		N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		100	Pole/Log	8	110	Balsam Fir	Full	5 - 10 feet	Sapling
						Tag Alder	Low	5 - 10 feet	Tall Shrub
21	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	160.3	100		N/A	Previous Inventory Comment: Could do some small habitat cuts in cedar areas to feed deer if needed.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		20	Pole/Sapling	3		Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar		30	Pole/Log	6		Balsam Fir	High	5 - 10 feet	Sapling
Red Maple		10	Pole/Log	6		Red Maple	Medium	5 - 10 feet	Sapling
Tamarack		40	Pole/Log/Sap	6	100				
22	4134 - Aspen, Spruce/Fir	Sawtimber Medium	1.8	102	Unspecified	N/A	Stand was habitat cut in the winter of 1996/1997 as part of proposal W62-560. "Within orange painted boundaries, cut all species during the winter months to provide food and regenerate the type"		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		2	Pole	6		Red Maple	Low	10 - 20 feet	Sapling
Quaking Aspen		58	Log/XLog/Pole	15	102	Balsam Fir	Low	>20 feet	Sapling
White Spruce		35	Sapling/Pole	4	80	White Spruce	Medium	>20 feet	Sapling
Balsam Fir		5	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
23	6121 - Tamarack	Poletimber Well	62.7	100	Unspecified	N/A																																												
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24	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	20.0	85	111-140	N/A																																												
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25	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	5.4	60	Unspecified	N/A	Stand was habitat cut in the winter of 1996/1997 as part of proposal W62-560. "Within orange painted boundaries, cut all species during the winter months to provide food and regenerate the type"																																											
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26	4130 - Aspen	Sawtimber Medium	4.4	80		N/A																																												
27	6122 - Black Spruce	Sapling Medium	162.8	50		N/A	Previous Inventory Comments: Stand swapped from Non-Forested to Forested. Most of the tamarack is dead snags.																																											
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28	4134 - Aspen, Spruce/Fir	Poletimber Well	14.2	25	Unspecified	N/A	Stand was habitat cut the winter of 1998/1999 as part of proposal #62-645. "Within orange painted boundaries cut all trees 2" in diameter and greater."																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Poor 19.0 50 N/A Eastern portion of stand was hand cut the winter of 1998/1999 as part of proposal W62-645. "Within the red painted boundaries, cut all trees 2" in diameter and greater except do not cut any hemlock."

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	30	Pole/Log	8		Red Maple	High	5 - 10 feet	Sapling
Northern White Cedar	20	Pole	5		Alder	High	5 - 10 feet	Tall Shrub
Tamarack	30	Pole/Sapling	3	50				
Red Maple	20	Sapling/Pole	3					

31 629 - Mixed non-forested wetland Nonstocked 10.2 No

Sub-Canopy Species	Density	Avg. Height	Size
Leatherleaf	High		Tall Shrub
Paper Birch	Trace		Seeding
Black Ash	Trace		Pole
Cattail spp.	High		Non-Wood
Red Maple	Low		Sapling
Alder	Full		Tall Shrub

32 429 - Mixed Upland Conifers Poletimber Medium 4.9 60 81-110 N/A 2012 Comment: Maybe habitat cut isolated island.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	20	Pole/Log	8		White Pine	Low	< 5 feet	Sapling
White Pine	5	Log/Pole	12		White Spruce	Low	< 5 feet	Sapling
Balsam Fir	25	Pole/Sapling	5		Balsam Fir	Low	< 5 feet	Sapling
Red Maple	10	Pole/Log	8					
Paper Birch	10	Pole/Log	8					
Black Spruce	30	Pole/Log	6	60				

33 4130 - Aspen Sapling Well 26.8 18 Unspecified N/A Cut as part of timber sale #63-013-05 "Eagles Aspen". Completed in 2005. Clearcut all species 2" in diameter or greater except do not cut any fir.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Sapling	2		Red Maple	Low	< 5 feet	Sapling
Bigtooth Aspen	70	Sapling/Pole	3	18	Witch Hazel	Low	< 5 feet	Tall Shrub
Beech	5	Sapling	2		Bigtooth Aspen	Low	< 5 feet	Sapling
Red Maple	20	Sapling/Pole	3					

34 4130 - Aspen Sapling Well 78.7 17 Unspecified N/A Cut as part of sale #63-004-03 "Willies Aspen 2". Northern side cut in 2003, east side cut in 2006, south area cut in 2009. Cut all species listed (Aspen, Red Maple, Birch, Cherry) with a diameter of 2 inches or more measured at a point 4.5 feet above ground level.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	60	Sapling/Pole	3	17	Bigtooth Aspen	Low	< 5 feet	Sapling
Red Maple	40	Sapling/Pole	3		Hawthorn (spp.)	Low	< 5 feet	Tall Shrub
					Red Maple	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
35	4193 - Birch, Aspen	Poletimber Well	7.8	65	Unspecified	N/A	Stand is similar to stand 35b.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		10	Log/Pole	10		Red Maple	
Red Oak		5	Log/Pole/XLog	12		Hawthorn (spp.)	
Red Maple		30	Pole/Log	8		Density	
Paper Birch		50	Pole/Log	8	65	Avg. Height	
Red Pine		5	Log/Pole	10		Size	
36	6239 - Mixed Emergent Wetland	Nonstocked	91.8			No	
Sub-Canopy Species		Density	Avg. Height	Size			
Alder		Low		Tall Shrub			
Sweet Fern		Low		Tall Shrub			
Cattail spp.		Low		Non-Wood			
Leatherleaf		High		Tall Shrub			
37	6124 - Lowland Spruce-Fir	Poletimber Well	0.0	65	81-110	N/A	wet hummocy small diameters
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		5	Sapling/Pole	4		Labrador Tea	
Red Maple		10	Pole/Log	8		Tamarack	
Black Spruce		45	Pole/Sapling	4	65	Leatherleaf	
Tamarack		40	Sapling/Pole	3		Alder	
						Black Spruce	
38	4130 - Aspen	Sapling Well	5.6	25		N/A	Cut in Timber Sale #62-028-96-01 "Sconian Aspen"
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		90	Sapling	2	25	Balsam Fir	
Red Maple		10	Sapling	3			
39	6122 - Black Spruce	Sapling Medium	18.0	65		N/A	Previous Inventory Comments: New stand added. Lots of snags.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		70	Sapling/Pole	3	65	Black Spruce	
Tamarack		30	Sapling	1		Leatherleaf	
						Tamarack	
40	4130 - Aspen	Sapling Well	32.1	22	Immature	N/A	Cut as part of timber sale #63-010-00 "Willies Aspen". Cut all bid species (Aspen, Red Maple, Paper Birch) regardless of merchantability down to a diameter of 2 inches measured at 4.5 feet above ground level.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Sapling/Pole	3		Red Maple	
Bigtooth Aspen		70	Sapling/Pole	3	22	Witch Hazel	
Beech		5	Sapling	2		Bigtooth Aspen	
Black Cherry		5	Sapling	2			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
41	6124 - Lowland Spruce-Fir	Poletimber Well	179.2	65	81-110	N/A	Wet and hummocky with small diameters.																																													
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43	4139 - Aspen, Mixed Deciduous	Sapling Well	32.1	13	Unspecified	N/A	Cut as part of timber sale #63-026-07 "Outman 4 Negotiated". Cut all species 2 inches or greater in diameter except do not cut any oak.																																													
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47	6229 - Mixed lowland shrub	Nonstocked	16.3			No	Aspen islands in stand.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
48	6239 - Mixed Emergent Wetland	Nonstocked	20.5			No					
								Sub-Canopy Species	Density	Avg. Height	Size
								Cattail spp.	Low		Non-Wood
								Alder	Low		Tall Shrub
								Sweet Fern	Low		Tall Shrub
Leatherleaf	High		Tall Shrub								
51	6229 - Mixed lowland shrub	Nonstocked	14.9			No					
								Sub-Canopy Species	Density	Avg. Height	Size
								Cattail spp.	Medium		Non-Wood
								Alder	High		Tall Shrub