



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63077

Entry Year 2023

Acreage: 1,984

County Missaukee

Management Area: Upper Muskegon

Revision Date: 2021-06-09

Stand Examiner: Joe Ventimiglia

Legal Description:

T24N, R5W, Sections. 2,11,14

Identified Planning Goals:

Vegetation management in the Upper Muskegon 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 period will focus on balancing age class distributions of oak, aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation. Declining ageing oak is of particular concern and focus in this compartment.

Soil and topography:

Montcalm-Graycalm complex, Rubicon sand, Tawas mucks and peats, Roscommon mucky sand and Lupton muck

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

Solid State surface ownership with minerals owned privately. Oil and gas development and timber management dominates the compartment. This compartment is heavily impacted by the Norwich Oil Field with dozens of active wells as well as office and building headquarters.

Unique Natural Features:

None listed

Archeological, Historical, and Cultural Features:

None listed

Special Management Designations or Considerations:

Heavy oil and gas development plus an extensive network of largely unmapped, antiquated above ground pipelines makes this a hazardous compartment for most management activities, especially wild or prescribed fire activities as well as timber sale harvesting.

Watershed and Fisheries Considerations:

No fisheries concerns within this compartment.

Wildlife Habitat Considerations:

Featured wildlife species include deer, bear, ruffed grouse, woodcock, and beaver. Management objectives are to maintain 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

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel pit is several miles away. There may be some good sand & gravel potential within the compartment, but the amount of oil & gas infrastructure could inhibit any development. The compartment lies within East Norwich Field. The field is in secondary recovery operations currently, and new development wells are unlikely. The one State fee parcel in Sec 2 is leased and held by production. The State does not own most of the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights

Vehicle Access:

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. All open two tracks are open to both conventional vehicles as well as ORV trails.

Survey Needs:

None with solid State ownership.

Recreational Facilities and Opportunities:

The Higgins-Stratford Snowmobile Trail runs along the North edge of the compartment. Department ORV trail winds extensively through the compartment.

Fire Protection:

The IA for this compartment is from the Houghton Lake Field Office. The Norwich oil field is also in this compartment, so there are numerous areas of “no plow” zones.

Additional Compartment Information:

The following reports from the Inventory are attached:

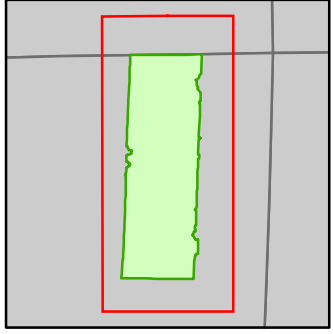
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

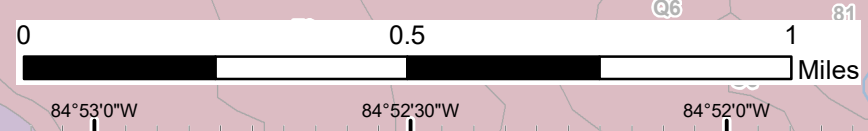
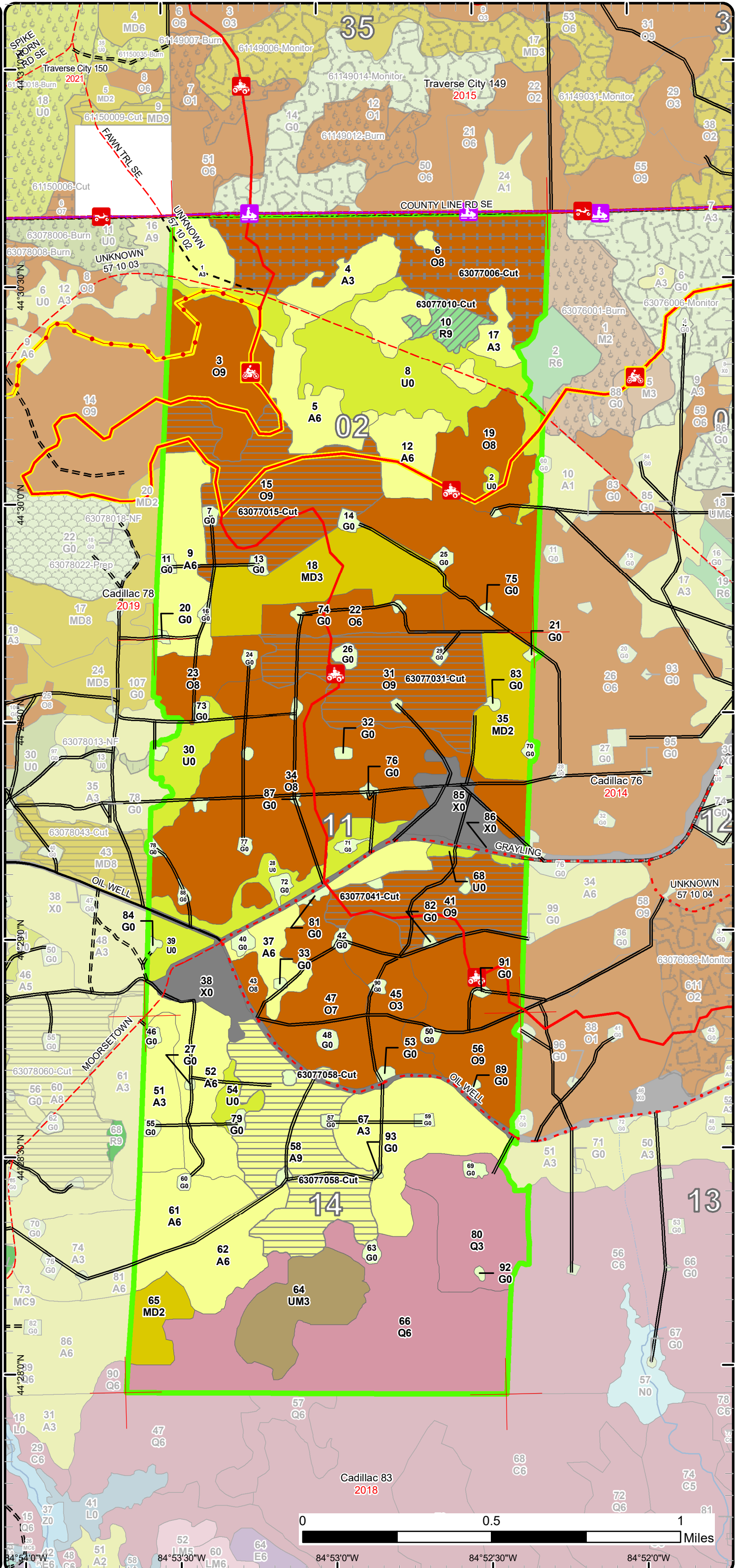
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 77
 T24N R05W Sec. 02,11,14
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Upper Muskegon
 YOE: 2023
 Acres: 1983.9 GIS Calculated
 Examiner: Joe Ventimiglia
 Map Revised: 6/9/2021
 Map Phase: Web-Post

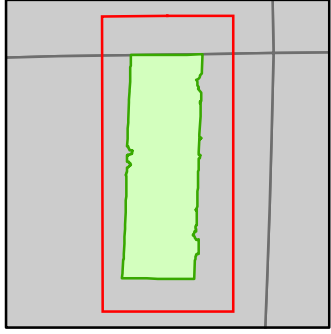


- Miris Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- MCCCT Trails
- ORV Trails
- ORV Routes
- Snowmobile Trails
- ORV License & Trail Permit
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Intermittent Stream
- Perennial River
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees

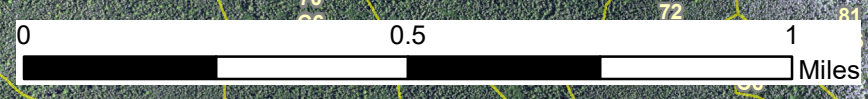
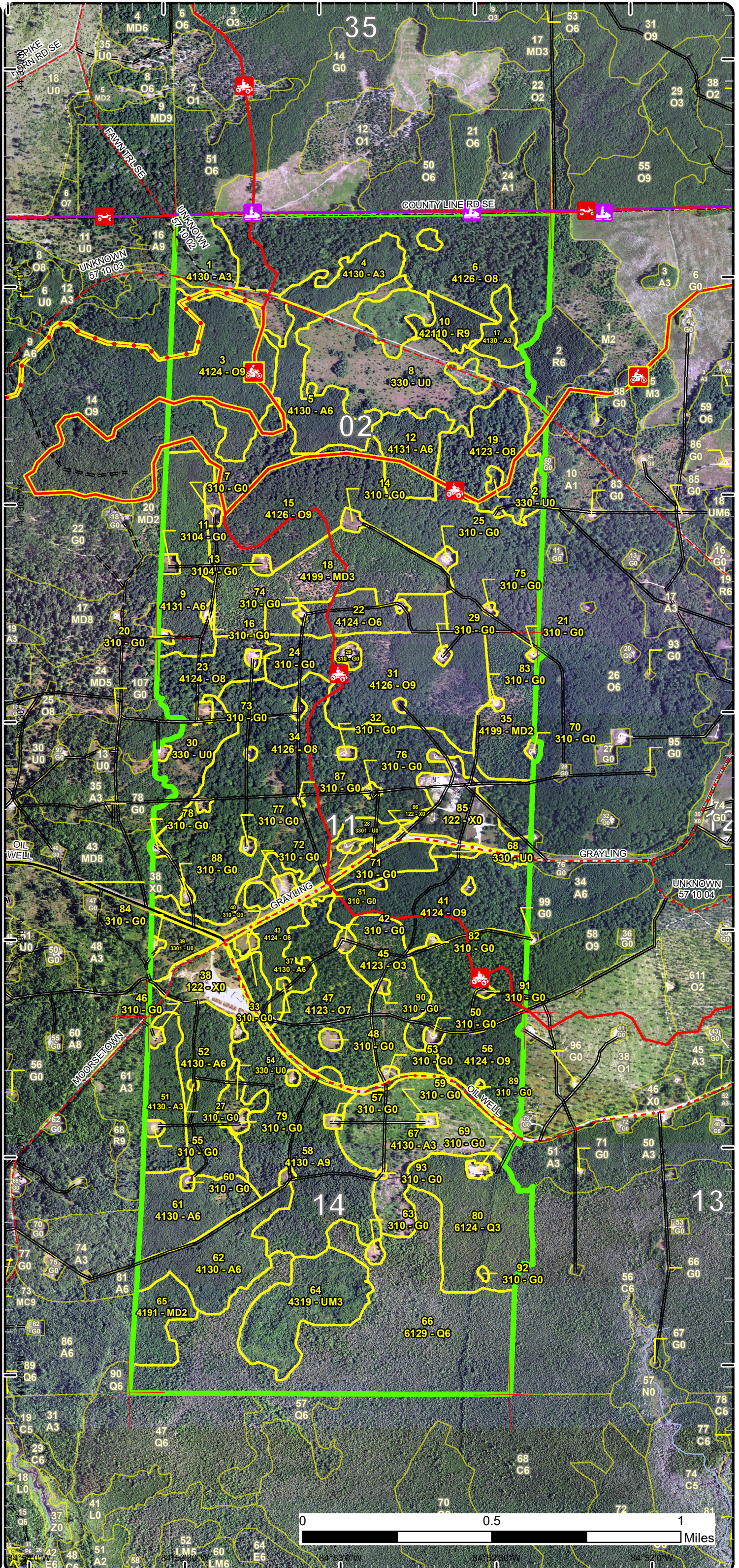


Stand Boundary Map

Compartment: 77
 T24N R05W Sec. 02,11,14
 County: Missaukee
 Unit: Cadillac
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 Map Phase: Web-Post

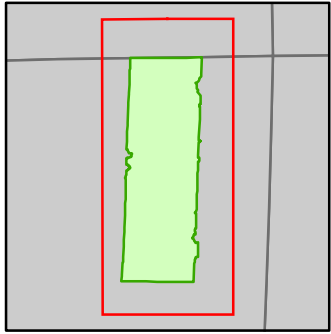


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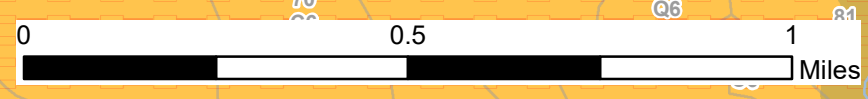
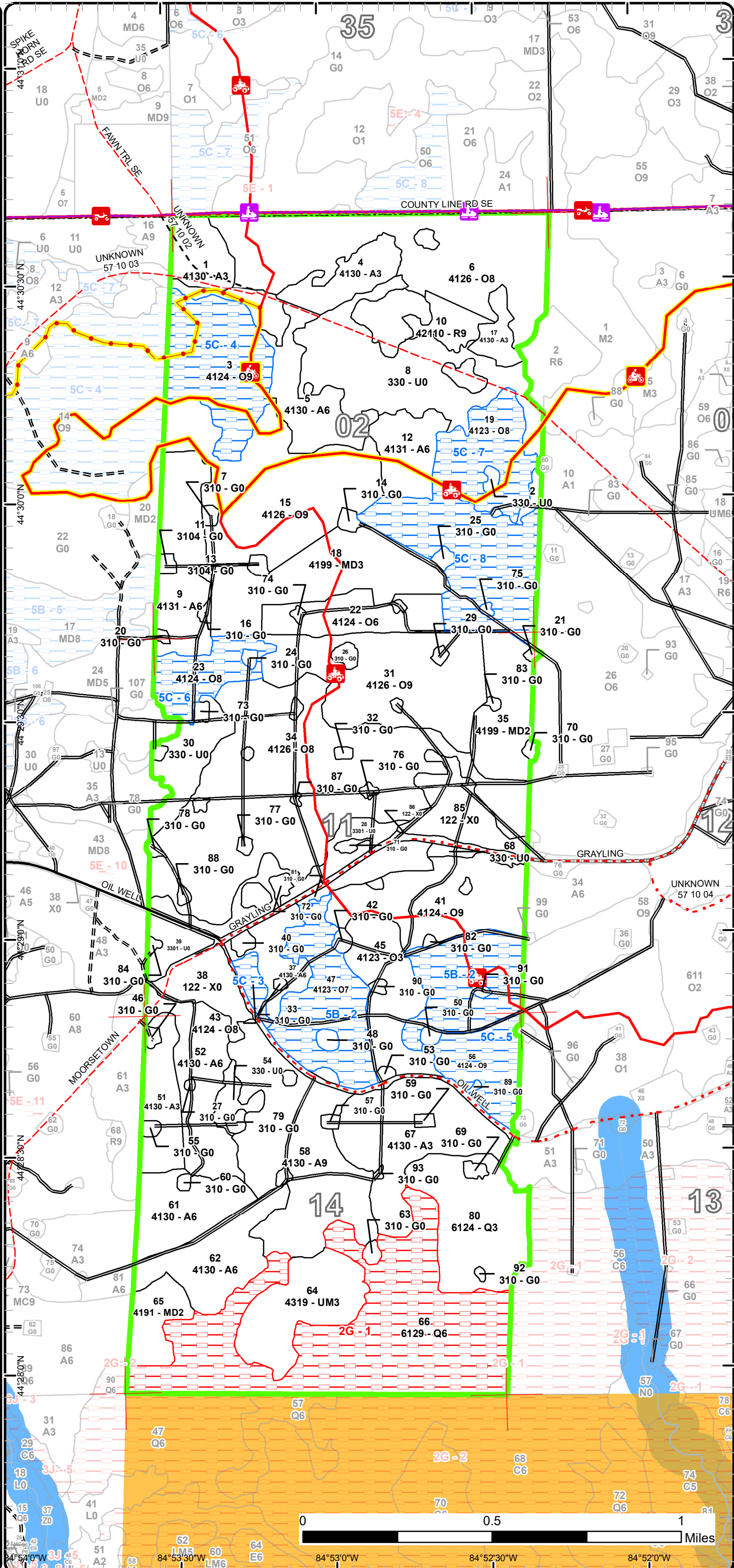


Special Conservation Areas

Compartment: 77
 T24N R05W Sec. 02,11,14
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Upper Muskegon
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- Michigan Cross Country Cycle Trail (MCCCT)
- Intermittent Stream
- Perennial River
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Cold Water Streams
- Non-Dedicated Natural Areas and National Natural Landmarks
- High Priority Trout Stream Buffer



84°54'0"W 84°53'30"W 84°53'0"W 84°52'30"W 84°52'0"W

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	94	30	23	123	102	85	0	0	0	0	0	0	0	0	0	0	0	457
Herbaceous Openland	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Low-Density Trees	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151
Lowland Conifers	0	0	0	0	53	0	0	0	0	0	0	158	0	0	0	0	0	0	211
Mixed Upland Deciduous	0	0	50	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
Oak	0	0	36	0	27	0	0	0	0	291	347	0	0	0	0	0	0	179	880
Red Pine	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	11
Upland Mixed Forest	0	0	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Urban	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Total	275	94	157	81	203	113	85	0	0	291	347	158	0	0	0	0	0	179	1983



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 77

Total Compartment Acres: 1,984

Commercial Harvest - 423
 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	85	0	0	0	0	0	0	0	0	85
Oak	222	0	0	0	0	105	0	0	0	327
Red Pine	0	0	0	0	11	0	0	0	0	11
Total	307	0	0	0	11	105	0	0	0	423

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	423	0	0	0	0	0	0	0	0	423
Next Step	0	78	78	0	78	385	0	0	0	618
Total	423	78	78	0	78	385	0	0	0	1041



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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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Proposed Treatments:

6	63077006-Cut	105.1	4126 - White, Black, N. Pin Oak	Sawtimber Medium	99	1-50	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Overstory removal cut all trees over 6 inches in diameter. Leave all red and white pine regardless of merchantability.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak and red maple with minor mix of pine and cherry.</p> <p><u>Regen:</u></p> <p><u>Other</u> With dieback pocket and low quality oak aging time to restart and salvage mature oak left from previous harvest. MO from harvest will be mix of oak, red maple and aspen. Add ORV protection spec.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
10	63077010-Cut	10.7	42110 - Planted Red Pine	Sawtimber Well	45	141-170	Harvest	Systematic Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Third Row thin plantation. As well cut any aspen in stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Rows in good shape in spots other areas will be at discretion of producer to make rows. Lump in with sale to north.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
15	63077015-Cut	91.1	4126 - White, Black, N. Pin Oak	Sawtimber Well	88	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest leave any red or white pine. Leave retention island 3 to 5 percent of total acreage.</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</u> Mix of red maple and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u> Protect red maple understory as possible. Add pipeline spec and ORV trail spec. Map retention in MIFI. Breaking up age class of larger oak stand. West end chosen as a result of mortality pockets in west end.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
31	63077031-Cut	77.6	4126 - White, Black, N. Pin Oak	Sawtimber Well	88	81-110	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest no retention as a result of planted objective.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Planted red pine. Some oak accepted as well but overall objective of planted red.</p> <p><u>Regen:</u></p> <p><u>Other</u> Oil company will need to be notified. Sign and protect ORV trail, leave no trees along trail. Plant red pine following harvest. If pipeline limits trenching consider planting without trenches. Converting oak to red pine has occurred in adjacent compartments with success.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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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41	63077041-Cut	53.3	4124 - Red with White Oak	Sawtimber Well	96	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Final harvest leave retention island or islands 3 to 5 percent of total acreage.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mixed red maple and oak.

Regen:

Other Map retention in MIFI. Protect ORV trail with spec. Pipeline company needs to be notified at time of harvest. Protect understory where possible during harvest. With die back pocket in NE and aging oak, concerns with carrying this stand forward . MO of mixed red maple and oak.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

58	63077058-Cut	85.4	4130 - Aspen	Sawtimber Well	52	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription Final harvest. Leave retention island or islands 3 to 5 percent of total acreage. As well leave any white or red pine present.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with mix conifer and oak accepted as well.

Regen:

Other Map retention in MIFI. Very few conifer component to aspen stand in this area. Leaving few pine to attempt to promote some conifer diversity. Add pipeline spec.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

Total Treatment 423.2
Acreage Proposed:

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 77
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	2G
		With Condition	Not Available				
458	458	0	0	Aspen			
61	61	0	0	Herbaceous Openland			
151	151	0	0	Low-Density Trees			
211	53	0	158	Lowland Conifers			158
108	108	0	0	Mixed Upland Deciduous			
879	569	311	0	Oak	93	218	
11	11	0	0	Red Pine			
41	41	0	0	Upland Mixed Forest			
63	63	0	0	Urban			
1,984	1,515	311	158	Total Forested Acres	93	218	158
	76%	16%	8%	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)	158	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5B: Maintain for regeneration purposes	93	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Scattered oak not worth going after to disturb regeneration.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
 Joe Ventimiglia : Examiner

Compartment: 77
 Year of Entry: 2023

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand just thinned hold for future YOE.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	67	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	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
1	4130 - Aspen	Sapling Well	34.6	6	Immature	N/A	Stand was final harvested in 2015 during the winter. All oak was left. In northwest portion most of large oak left has died since harvest. (Decline) Stands will be mostly aspen with mix of oak and few red maple. Oak of various size class left but mostly young pole.																																																						
<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>5</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> <tr> <td>Red Oak</td> <td>10</td> <td>Pole/Sap/Log</td> <td>5</td> <td></td> </tr> <tr> <td>White Oak</td> <td>2</td> <td>Log</td> <td>13</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>81</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> <tr> <td>Black Cherry</td> <td>1</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>White Pine</td> <td>1</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Sapling	1	6	Red Oak	10	Pole/Sap/Log	5		White Oak	2	Log	13		Quaking Aspen	81	Sapling	1	6	Black Cherry	1	Sapling	1		White Pine	1	Sapling	1																				
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Black Cherry	1	Sapling	1																																																										
White Pine	1	Sapling	1																																																										
2	330 - Low-Density Trees	Nonstocked	1.5	0	Immature	No																																																							
3	4124 - Red with White Oak	Sawtimber Well	55.0	86	51-80	N/A	Stand was marked thinning in 2016 all aspen/red maple cut by spec, short wood operation under Rambo Oak sale. Low quality oak overall, limited understory besides scattered red maple stump spouts. A few oak mortality trees noticed but nothing too bad compared to other oak stands in the area. Stand just into log size overall, still lots of pole oak. ORV trail runs through stand.																																																						
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4	4130 - Aspen	Sapling Well	21.1	19	Immature	N/A	Stand was final harvested in 2002. Came back thick to aspen.																																																						
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5	4130 - Aspen	Poletimber Well	29.8	30	1-50	N/A	Stand was final harvested in 1991. Came back well to aspen, solid pole stand.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	4126 - White, Black, N. Pin Oak	Sawtimber Medium	105.1	99	1-50	N/A	Stand was shelter wood harvested in 2002, oak was marked to cut with all aspen and red maple cut my spec. All dead oak was cut from stand in salvage sale in 1998. A few aspen clones in SE portion of stand were missed with the 2002 harvest. Some scattered mortality in oak overstory noted significant bad spot in NW corner of stand. Understory is heavy in spots and limited in others. Oak showing signs of age and likely on downward trend.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		1	Log	12		Red Oak		Low	5 - 10 feet	Sapling	
Black/Red (Hybrid) Oak		67	XLog/Log	19	99	White Oak		Low	5 - 10 feet	Sapling	
White Oak		25	Log/XLog	17		Quaking Aspen		Low	Variable	Sapling	
Red Pine		1	Log	14		Red Maple		High	Variable	Sapling	
Quaking Aspen		6	Log	13		White Pine		Trace	Variable	Sapling	
						Witch Hazel		Low	5 - 10 feet	Tall Shrub	

7	310 - Herbaceous Openland	Nonstocked	1.4				well site
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8	330 - Low-Density Trees	Nonstocked	84.9			No	Large opening with scattered cherry's and even a few small clones of aspen.
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9	4131 - Aspen, Oak	Poletimber Well	40.5	40	51-80	N/A	Oak stand that was final harvested in 1980\1981. Came back to aspen and oak. Some areas pure aspen and others mostly oak . North end is more oak.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		50	Pole/Log	8	40						
Red Oak		30	Pole	7	40						
White Oak		10	Pole	7							
Red Maple		10	Pole	7							

10	42110 - Planted Red Pine	Sawtimber Well	10.7	45	141-170	N/A	Small planted red pine stand never before thinned. Overall rows defined but a few spots where finding rows is tough. Just into log class overall. A few aspen pockets and scattered mature cherry.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		5	Log	13		Red Maple		Medium	< 5 feet	Sapling	
Red Pine		90	Log/Pole	10	45	Serviceberry (Juneberry)		Low	10 - 20 feet	Sapling	
Black Cherry		5	Log	13							

11	3104 - Degraded	Nonstocked	1.6				well site
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12	4131 - Aspen, Oak	Poletimber Well	22.4	40	51-80	N/A	Stand final harvested in 1980. North half came back to mostly aspen, southern half to mix of oak/red maple. Scattered white pine throughout.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		15	Pole	6		Red Maple		High	Variable	Sapling	
Quaking Aspen		50	Pole/Log	9	40	White Oak		Medium	Variable	Sapling	
White Pine		8	Pole/Log	8		Ironwood		Low	5 - 10 feet	Sapling	
Red Pine		1	Pole/Log	9							
White Oak		5	Pole/Sap/Log	7							
Red Oak		20	Pole	7							
Paper Birch		1	Pole	6							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13 3104 - Degraded Nonstocked 1.6 abandoned oil well site

14 310 - Herbaceous Openland Nonstocked 1.9 well site

15 4126 - White, Black, N. Pin Oak Sawtimber Well 158.4 88 81-110 N/A Stand was thinned in 2000, all red maple cut by spec. Best quality ridge of oak in this compartment. Large oak decline die back pocket in the west end, not believed to be oak wilt.. Solid red maple understory from 2000 thinning, unique rolling topography. No dieback found in East end of ridge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	59	Log/XLog	16	88	Red Maple	High	>20 feet	Sapling
White Oak	38	Log	13		Red Oak	Low	5 - 10 feet	Sapling
White Pine	1	Log/Pole	10		White Oak	Low	5 - 10 feet	Sapling
Red Pine	2	Log	13		White Pine	Trace	< 5 feet	Sapling
					Witch Hazel	Medium	5 - 10 feet	Tall Shrub

16 310 - Herbaceous Openland Nonstocked 1.0 well site

17 4130 - Aspen Sapling Well 9.3 18 Immature N/A Stand was final harvested in 2002. Came back well to aspen. Rough looking aspen typical of this area.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	93	Sapling	4	18
Black Cherry	2	Sapling	3	
Red Maple	5	Sapling	2	

18 4199 - Other Mixed Upland Deciduous Sapling Well 58.3 21 Immature N/A Stand was final harvested in 2000. A few red pine left otherwise was a true clearcut. Came back well to mix of oak and red maple. Overall red maple appears dominant.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	20	Sapling	3	21	Wintergreen	Low	5 - 10 feet	Tall Shrub
Red Maple	57	Sapling	3	21				
Red Oak	20	Sapling	3					
Black Cherry	2	Sapling	2					
Red Pine	1	Log/Pole	12					

19 4123 - Red Oak Sawtimber Medium 37.5 98 51-80 N/A OAK STAND THAT WAS THINNED IN 1993. Appears from records all maple, aspen and white oak was cut leaving all mostly scattered red oak. Southwest corner was clearcut. Today left with two age stand, overstory is scattered Log/XL mostly red oak. Oak showing signs of age. Mixed oak, maple and aspen from 1993 cut in understory, this is patchy in spots.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	12		Red Maple	High	Variable	Sapling
Red Oak	89	XLog/Log	19	98	Red Oak	Low	Variable	Sapling
White Oak	2	Log	16		White Oak	Medium	Variable	Sapling
White Pine	2	Pole/Log	8		White Pine	Trace	Variable	Sapling
Red Pine	2	Log	14		Quaking Aspen	Medium	Variable	Pole

20 310 - Herbaceous Openland Nonstocked 0.8 well site



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
21	310 - Herbaceous Openland	Nonstocked	0.7	0			Well Site																																																						
22	4124 - Red with White Oak	Poletimber Well	27.4	39	1-50	N/A	Stand was final harvested in 1982.																																																						
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23	4124 - Red with White Oak	Sawtimber Medium	24.4	97	51-80	N/A	Stand was shelter wood cut in 2002. Created two aged stand of aging log oak overstory left with thick red maple with some oak regenerating in understory.																																																						
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27	310 - Herbaceous Openland	Nonstocked	0.5	0			Well site																																																						
28	3301 - Low Density Deciduous Trees	Nonstocked	23.6			No																																																							
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29	310 - Herbaceous Openland	Nonstocked	1.0																																																										
30	330 - Low-Density Trees	Nonstocked	21.3	0		No	Scattered cherry, a few large oak/red maple woly log trees scattered. Old relic pine stumps in stand. On edge of poorly stocked forested stand but with more of the of stand being small black cherry non forested seemed more appropriate.																																																						



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31	4126 - White, Black, N. Pin Oak	Sawtimber Well	77.6	88	81-110	N/A	Low quality mixed oak stand with large die back pockets which had appeared in last 5 or so years. These pockets are found throughout this area. Portion of southern end of stand was thinned in 2000 with red maple in understory otherwise limited understory. Oak in North and west is completely stagnant.																																																								
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34	4126 - White, Black, N. Pin Oak	Sawtimber Medium	178.9	94	51-80	N/A	Large complex of scrubby low quality oak/red maple/cherry and scattered poor quality aspen clones. No records of past management, appears to be open area that has slowly filled in over the years....																																																								
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35	4199 - Other Mixed Upland Deciduous	Sapling Medium	32.4	19	Immature	N/A	Stand was final harvested in 2002. Came back patchy in spots overall well forested though. Heavy mix of red maple and oak, appears red maple is overall dominant species.																																																								
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37	4130 - Aspen	Poletimber Well	27.1	30	Immature	N/A	Stand was final harvested in 1991. Came back well to aspen, overall average quality some pockets look rough.																																																								
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38	122 - Road/Parking Lot	Nonstocked	19.4				Oil and gas central facility. Limited to no trees area dedicated to oil and gas.																																																								
39	3301 - Low Density Deciduous Trees	Nonstocked	10.0			No	Above ground oil and gas along with power line in this small block. Scattered cherry, aspen and oak.																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
40	310 - Herbaceous Openland	Nonstocked	1.9																																																										
41	4124 - Red with White Oak	Sawtimber Well	53.3	96	81-110	N/A	Stand was thinned in 2002. Solid block of oak, pockets of fairly good quality but overall not great site. Small oak mortality pocket in northeast end(appears to be decline) Small aspen clone in northeast end as well. Solid red maple understory. Slight hills with ORV trail in stand as well.																																																						
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42	310 - Herbaceous Openland	Nonstocked	1.7																																																										
43	4124 - Red with White Oak	Sawtimber Medium	5.9	92	51-80	N/A	Small block of rough looking oak/ red maple and aspen left out from recent harvest in the area. Oak of little value mostly wildlife trees .																																																						
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45	4123 - Red Oak	Sapling Well	35.6	19	Immature	N/A	Portion of Oak ridge final harvested in 2002. One white pine left in overstory and seeded in a small patch of white pine otherwise stand came back to oak and red maple, a few aspen clones one by road.																																																						
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46	310 - Herbaceous Openland	Nonstocked	1.3																																																										
47	4123 - Red Oak	Sawtimber Poor	93.0	94	1-50	N/A	Oak stand that was shelter wood cut in 2002. Oak overstory varies from 10 BA to as high as 40 in spots. From 2002 harvest nice mix of oak/red maple with some aspen clones. Aspen along main road.																																																						
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48	310 - Herbaceous Openland	Nonstocked	1.8																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
50	310 - Herbaceous Openland	Nonstocked	1.4																																																				
51	4130 - Aspen	Sapling Well	23.1	20	Immature	N/A	Stand was final harvested in 2001, all oak 8 inches and greater was left as that time. Oak widely scattered, mostly poor quality red oak.																																																
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52	4130 - Aspen	Poletimber Well	39.3	41	51-80	N/A	From records appears stand was final harvested leaving all oak in 1980. (Wildlife drip fund)																																																
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53	310 - Herbaceous Openland	Nonstocked	1.0																																																				
54	330 - Low-Density Trees	Nonstocked	6.5			No	Scattered cherry and few oaks/aspens. Old pine stumps present.																																																
55	310 - Herbaceous Openland	Nonstocked	1.3																																																				
56	4124 - Red with White Oak	Sawtimber Well	27.6	96	81-110	N/A	Stand was thinned in 2002. Aspen clone by main road, was avoided with harvest. Once white pine left in center of stand only conifer component resulted in little patch of white pine regen. Mostly red/black oak of average/low quality. No signs of oak wilt or mortality.																																																
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57	310 - Herbaceous Openland	Nonstocked	1.1																																																				



Stand **Level 4 Cover Type** **Size Density** **Acres** **Stand Age** **BA Range** **Managed Site** **General Comments**

58 4130 - Aspen Sawtimber Well 85.4 52 81-110 N/A

Stand was final harvested in 1969. Oldest block of aspen left in this compartment, ok quality in spots but overall low quality with oak mixed in spots. Lower quality and ground along southern edge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log	9		Red Maple	High	Variable	Sapling
Paper Birch	2	Pole	8		Red Oak	Medium	Variable	Sapling
Quaking Aspen	70	Log/Pole	11	52	Balsam Fir	Low	5 - 10 feet	Sapling
White Pine	4	Log/Pole	13		Black Cherry	Medium	Variable	Sapling
Black Cherry	3	Pole	8					
Red Oak	10	XLog/Log	18					
Red Pine	1	Log/Pole	10					
Balsam Fir	5	Pole	8					

59 310 - Herbaceous Openland Nonstocked 1.1 well site

60 310 - Herbaceous Openland Nonstocked 1.9

61 4130 - Aspen Poletimber Well 30.2 30 Immature N/A

Stand was final harvested in 1991. Came back well to aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Pole	7	30	Red Maple	High	Variable	Sapling
Red Oak	2	Pole/Log	9					
Black Cherry	2	Pole	6					
Balsam Fir	1	Pole	6					
Red Maple	5	Pole	7					

62 4130 - Aspen Poletimber Well 36.0 39 N/A

Stand was final harvested in 1982.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	7		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	88	Pole	8	39	Red Maple	Medium	Variable	Sapling
Balsam Fir	5	Pole/Sapling	6		Red Oak	Low	5 - 10 feet	Sapling
Red Oak	2	Pole/Log	8					

63 310 - Herbaceous Openland Nonstocked 1.5



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
64	4319 - Mixed Upland Forest	Sapling Well	41.0	18	Immature	N/A	Stand was final harvested in 2003, including cedar. Appears hemlock was left.... Upland overall but appears to have seasonal wet areas and hummocky ground. Came back well to nice mix.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		15	Sapling/Pole	2		Tag Alder		
Quaking Aspen		21	Sapling	3	18	Low		
Balsam Fir		26	Sapling	2	18	5 - 10 feet		
Hemlock		5	Pole/Log	8		Tall Shrub		
Red Oak		10	Sapling	2				
White Pine		13	Sapling	3				
White Spruce		5	Sapling	2				
Paper Birch		5	Sapling	2				
65	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	17.7	19	Immature	N/A	Stand was final harvested in 2001. Some cedar left...Came back to nice mix, heavy to conifer. One pocket flooded out to tag otherwise mostly upland with lowland character in east end.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Sapling	3		Tag Alder		
Quaking Aspen		30	Sapling	4	19	Medium		
Balsam Fir		25	Sapling	4	19	5 - 10 feet		
Paper Birch		15	Sapling	4		Tall Shrub		
Red Oak		5	Sapling	3				
White Pine		10	Sapling	3				
Northern White Cedar		5	Pole/Log	8				
66	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	158.4	107	51-80	N/A	Large lowland conifer swamp, old grown over oil well roads/pipelines still intact but no longer passable by truck. Mostly stagnant thick and wet. Not part of the official deadstream designation but part of the same swamp complex. Old abandoned well site in southeast corner overgrown.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		4	Pole/Log	9		Red Maple		
Quaking Aspen		1	Log/Pole/XLog	12		Low		
Tamarack		2	Log/Pole	10		High		
Balsam Fir		25	Pole/Log/Sap	7		Variable		
Black Spruce		10	Pole/Log	9		Sapling		
Northern White Cedar		41	Pole/Log	8	107	Medium		
White Pine		2	Log/XLog	16		5 - 10 feet		
						Tall Shrub		
67	4130 - Aspen	Sapling Well	59.3	6	Immature	N/A	Stand was final harvested in 2015. All oak was left. Came back well to aspen, oak of all sized scattered mostly pole some log size.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		89	Sapling	1	6			
Red Oak		8	Pole/Sap/Log	8				
Red Maple		3	Sapling	1	6			
68	330 - Low-Density Trees	Nonstocked	3.2	0		No	Scatters cherry few oak/aspen.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
69	310 - Herbaceous Openland	Nonstocked	1.5	0			Well site.																																																															
70	310 - Herbaceous Openland	Nonstocked	1.1	0			Well site																																																															
71	310 - Herbaceous Openland	Nonstocked	1.3				Well Site																																																															
72	310 - Herbaceous Openland	Nonstocked	1.9				Well Site																																																															
73	310 - Herbaceous Openland	Nonstocked	3.8	0			Well sites																																																															
74	310 - Herbaceous Openland	Nonstocked	1.4	0			Well Sites																																																															
75	310 - Herbaceous Openland	Nonstocked	0.6	0			well site																																																															
76	310 - Herbaceous Openland	Nonstocked	0.9	0			Well site.																																																															
77	310 - Herbaceous Openland	Nonstocked	1.0				Well site																																																															
78	310 - Herbaceous Openland	Nonstocked	1.0				Well site																																																															
79	310 - Herbaceous Openland	Nonstocked	2.3				well site																																																															
80	6124 - Lowland Spruce-Fir	Sapling Well	52.7	36	1-50	N/A	<p>Stand was final harvested in blocks from 1981 to 1984 from records over the winters as conditions allowed, was not mapped last YOE. Appears from records this was a cedar dominated stand prior. North edge was more aspen, maple fir.</p> <p>Very thick mix of fir, spruce, paper birch and some cedar. Still sapling size overall guessing as a result of low stagnant ground. See 20 years ago was mapped as LO may have flooded out at first then eventfully filled in?</p> <p>Very good stand to research effects of cedar clearcutting.</p>																																																															
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81	310 - Herbaceous Openland	Nonstocked	1.1	0		No	
82	310 - Herbaceous Openland	Nonstocked	1.9	0			well sites
83	310 - Herbaceous Openland	Nonstocked	0.7	0			Well Site
84	310 - Herbaceous Openland	Nonstocked	0.9				well site
85	122 - Road/Parking Lot	Nonstocked	25.2				Central facility, heavily impacted by oil and gas operation.
86	122 - Road/Parking Lot	Nonstocked	18.6			No	Road
87	310 - Herbaceous Openland	Nonstocked	0.4	0			well site
88	310 - Herbaceous Openland	Nonstocked	1.0				well site
89	310 - Herbaceous Openland	Nonstocked	0.4	0			well site
90	310 - Herbaceous Openland	Nonstocked	0.9	0			well site
91	310 - Herbaceous Openland	Nonstocked	0.8	0			well site
92	310 - Herbaceous Openland	Nonstocked	0.5	0			plugged well, overgrown with fir.
93	310 - Herbaceous Openland	Nonstocked	0.4	0			well site