



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63099

Entry Year 2022

Acreage: 1,520

County Missaukee

Management Area: Upper Muskegon

Revision Date: 2020-06-03

Stand Examiner: Matt Edison

Legal Description:

T21N, R5W, Sections 9, 10, 11 and 12.

Identified Planning Goals:

Maintain species and age diversity. Continue to buffer river corridors.

Soil and topography:

Mostly Rubicon and Croswell sands with Lupton muck along the river.

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

Scattered private blocks along river corridor, with seasonal cabins. Section 10 is solid state ownership.

Unique Natural Features:

Muskegon River runs through sections 11 and 12.

Osprey* documented within compartment in sections 11 and 12; more records to NE. Eastern massasauga* records in SW 1/4 of section 12 and NE 1/4 of section 13. Wood turtle* recorded in NE 1/4 of section 21 and NW 1/4 of section 7; additional records to SE and NW. Kirtland's warbler to SE. Bald eagle within 1 mile to E in sections 5 and 6; more occurrences to NE. Great blue heron rookeries to E. Boreal brachionyncha to E. Secretive locust to SW. Slippershell mussel to SE. Bigmouth shiner records to SE and NE.

Potential for osprey, bald eagle, red-shouldered hawk, and great blue heron rookery. Potential for massasauga, wood turtle, and Blanding's turtle.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Muskegon River

Wildlife Habitat Considerations:

Featured wildlife species in this Management Area are diverse reflecting the wide range of habitat types present. Featured Species of wildlife include american bittern, american woodcock, beaver, black bear, eastern massasuga rattlesnake, mallard, golden-winged warbler, pileated woodpecker, red-headed woodpecker, ruffed grouse, snowshoe hare, wild turkey, and white-tailed deer. Most of these species benefit from young forest and open types while some require some old trees for foraging and nest/den sites. Maintaining the opening types and balancing harvests with a diverse assortment of age classes in the timber types will meet the goals for these species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 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. Gravel pits are located within two miles of this compartment and potential is considered good. This area is located three miles southeast of South Prosper Field. Production of over 1 million BO is primarily from the Devonian Dundee Limestone. All state lands are leased for oil and gas development, or are nominated for the May 2010 auction.

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 abandonment. 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:

Corners in SW1/4 for timber sale prep.

Recreational Facilities and Opportunities:

Hunting and fishing opportunities within the compartment as well as designated ORV and snowmobile trails.

Fire Protection:

Access to this compartment is limited to a few 2 tracks. Use of fire equipment may be limited to light weight vehicle in the east portion of the compartment. Fuel types would not support large fires. In the west portion of the compartment is dryer and would make fire suppression with wheeled fire units useful along with the roads within. Orv use and dispersed camping could increase the wildfire causes.

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:

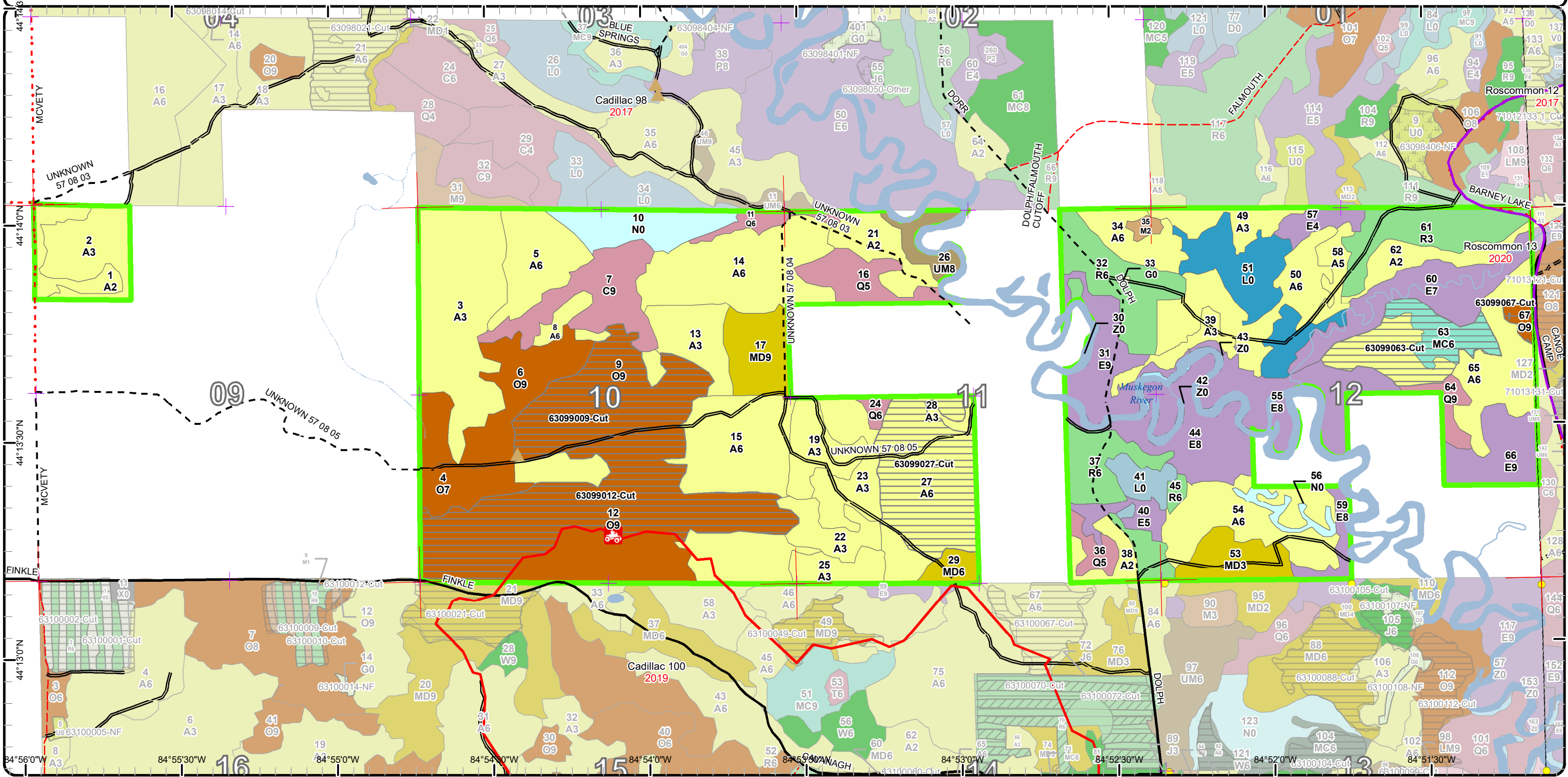
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 99
 T21N, R05W, Sec. 9-12
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Upper Muskegon
 YOE: 2022
 Acres: 1,520 GIS Calculated
 Examiner: Matt Edison
 Map Revised: 6/23/2020
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- ORV Trails
- Designated ATV Trails
- Designated Snowmobile Trails
- ▲ Berms
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

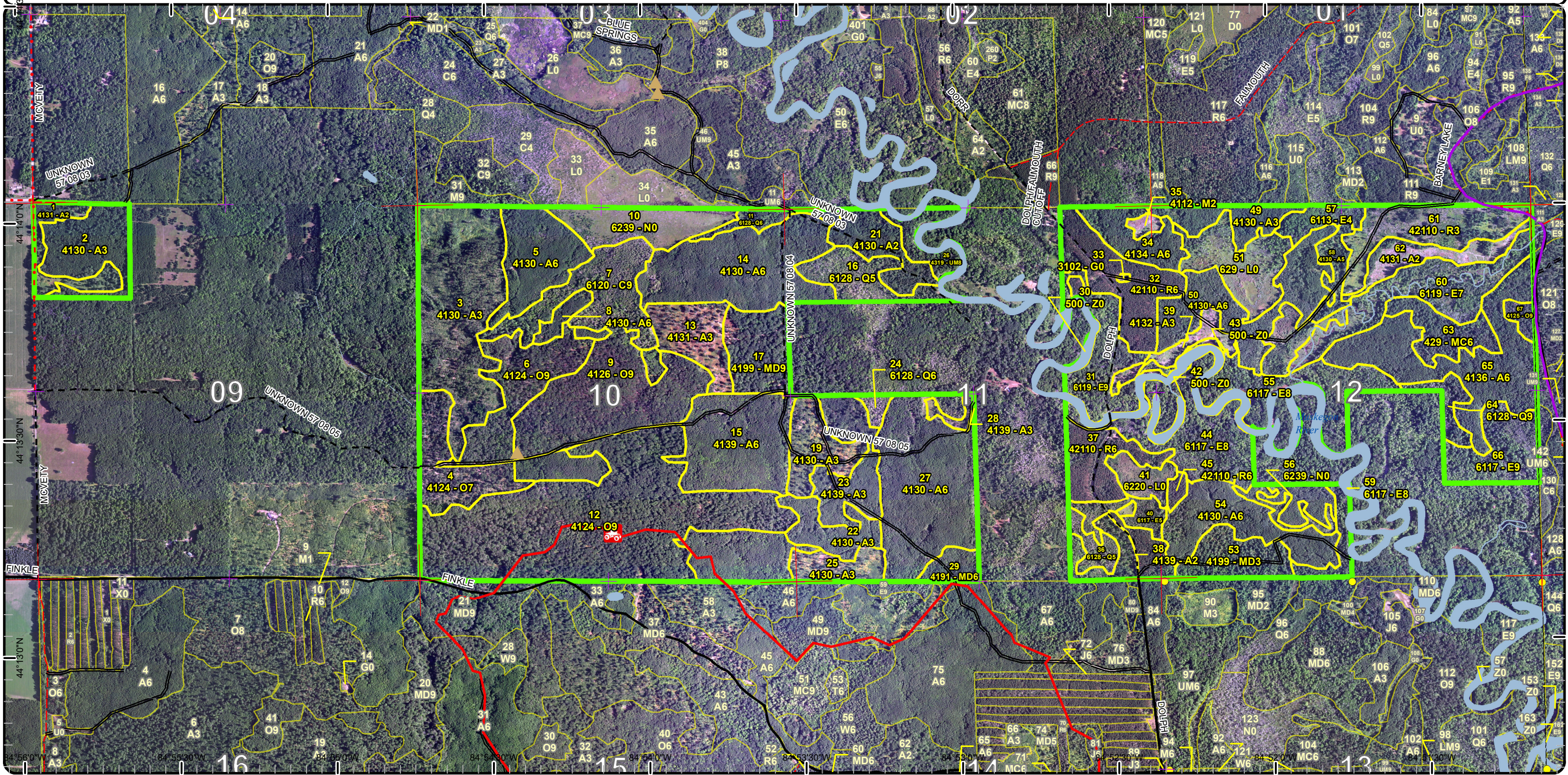


Stand Boundary Map

Compartment: 99
 T21N, R05W, Sec. 9-12
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- Counties
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- County - Gravel Road
- County - Dirt Road (Seasonal)
- 🚲 ORV Trails
- Designated ATV Trails
- Designated Snowmobile Trails
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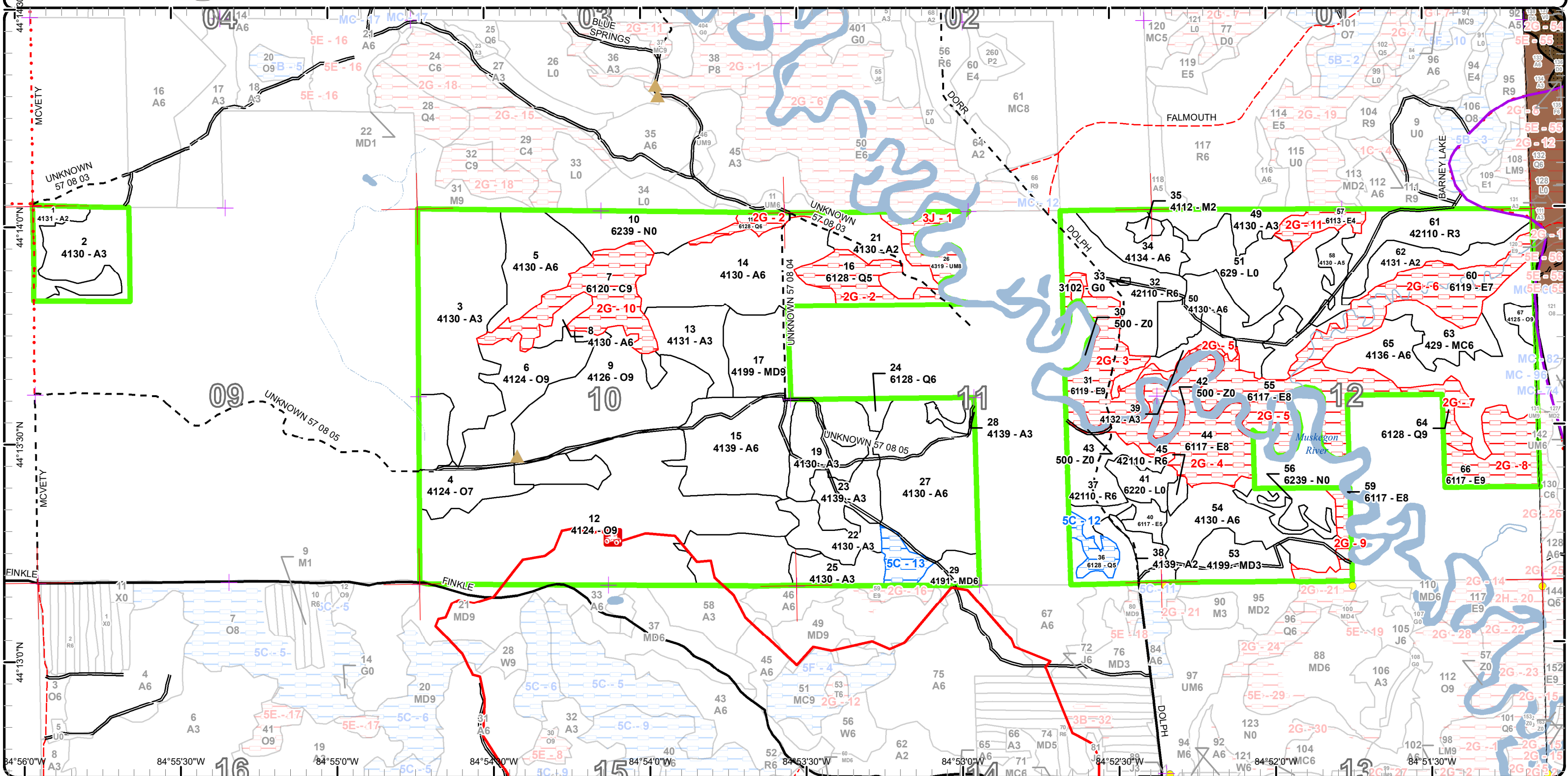


Special Conservation Areas

Compartment: 99
 T21N, R05W, Sec. 9-12
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Upper Muskegon
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- Miris Corners
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- Designated ATV Trails
- Designated Snowmobile Trails
- ▲ Berms
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Cold Water Lakes
- Wildlife Management Areas
- Habitat Corridor



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	156	48	129	236	0	127	0	0	0	0	0	0	0	0	0	0	0	695
Cedar	0	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	35
Herbaceous Openland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lowland Conifers	0	0	0	0	0	0	0	0	0	7	30	0	8	0	0	0	0	0	45
Lowland Deciduous	0	0	0	0	9	0	0	9	8	64	0	0	38	0	0	0	0	67	195
Lowland Shrub	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Marsh	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Mixed Upland Deciduous	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	31	50
Northern Hardwood	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Oak	0	0	0	0	0	0	0	27	148	0	66	0	0	0	0	0	0	34	275
Red Pine	0	32	0	0	0	0	0	65	0	0	0	0	0	0	0	0	0	0	97
Upland Conifers	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	17
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
Water	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Total	96	191	48	148	245	17	127	101	156	71	96	35	46	0	0	0	0	144	1520



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 99

Total Compartment Acres: 1,520

Commercial Harvest - 278
 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	100	0	0	0	0	0	0	0	0	100
Oak	174	0	0	0	0	4	0	0	0	178
Total	274	0	0	0	0	4	0	0	0	278

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	278	0	0	0	0	0	0	0	0	278
Next Step	0	0	0	0	0	0	274	0	0	274
Total	278	0	0	0	0	0	274	0	0	551



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:

9	63099009-Cut	61.8	4126 - White, Black, N. Pin Oak	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	No
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Prescription Final Harvest. Leave retention islands = to 3 to 5 percent of total acreage. Cut all deciduous trees down to 2" Diameter. Cut all conifer down to 4" diameter, except do not cut any legacy white pine over 20" or any potential lare trees later identified and marked accordingly.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Regen: Any mix of Jack Pine, Aspen, Spruce, Balsam Fir, Birch, Red Pine, White Pine, Maple, Oak, Cherry, Cedar, or Hemlock

Other Actual treatment size may vary and will directly reflect on the ground conditions during timber sale prep

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

12	63099012-Cut	112.2	4124 - Red with White Oak	Sawtimber Well	70	51-80	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	No
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Prescription Final Harvest. Leave retention islands = to 3 to 5 percent of total acreage. Cut all deciduous trees down to 2" Diameter. Cut all conifer down to 4" diameter, except do not cut any legacy white pine over 20" or any potential lare trees later identified and marked accordingly. Use ORV trail as southern boundary of cut, protect trail appropriately.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Regen: Any mix of Jack Pine, Aspen, Spruce, Balsam Fir, Birch, Red Pine, White Pine, Maple, Oak, Cherry, Cedar, or Hemlock

Other Actual treatment size may vary and will directly reflect on the ground conditions during timber sale prep

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

27	63099027-Cut	61.2	4130 - Aspen	Poletimber Well	50	141-170	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Treat the area North of road and leave the portion south of road for next entry with adjacent stand.Final Harvest. Leave retention islands = to 3 to 5 percent of total acreage. Cut all trees down to 2" Diameter, except do not cut any legacy white pine over 20" or any potential lare trees later identified and marked accordingly.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Regen: Any mix of Jack Pine, Aspen, Spruce, Balsam Fir, Birch, Red Pine, White Pine, Maple, Oak, Cherry, Cedar, or Hemlock

Other Actual treatment size may vary and will directly reflect on the ground conditions during timber sale prep.Use Road as boundary in SW

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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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
65 63099063-Cut	38.5	4136 - Aspen, Mixed Conifer	Poletimber Well	53	141-170	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Final Harvest. Leave retention islands = to 3 to 5 percent of total acreage. Also, do not cut any cedar or Hemlock. Cut all deciduous down to 2" DBH. Cut all other conifer down to 4" DBH. Leave Legacy White Pine over 20" plus mark any other desirable pine retention as leave trees</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any mix of Jack Pine, Aspen, Spruce, Balsam Fir, Birch, Red Pine, White Pine, Maple, Oak, Cherry, Cedar, or Hemlock</p> <p><u>Other Comment:</u> Actual treatment size may vary and will directly reflect on the ground conditions during timber sale prep.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
67 63099067-Cut	3.9	4125 - Black, N. Pin Oak	Sawtimber Well	90	1-50	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Remove overstory Oak and any other species over 10" DBH, except leave any White Pine over 16" or marked leave trees if identified.</p> <p><u>Specs:</u> Protect residual as best as possible with specs. Apply snowmobile considerations.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any mix of Jack Pine, Aspen, Spruce, Balsam Fir, Birch, Red Pine, White Pine, Maple, Oak, Cherry, Cedar, or Hemlock</p> <p><u>Other Comment:</u> Actual treatment size may vary and will directly reflect on the ground conditions during timber sale prep</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: **277.6**

Report 4 – Site Conditions

Cadillac Mgt. Unit
Matt Edison : Examiner

Compartment: 99
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2G	3J
		With Condition	Not Available				
695	687	8	0	Aspen	8	0	0
35	0	0	35	Cedar		35	
0	0	0	0	Herbaceous Openland			
45	3	7	35	Lowland Conifers	7	35	
196	9	0	187	Lowland Deciduous		187	
49	49	0	0	Lowland Shrub		0	
31	31	0	0	Marsh		0	
50	50	0	0	Mixed Upland Deciduous			
3	3	0	0	Northern Hardwood			
275	275	0	0	Oak			
97	97	0	0	Red Pine			
17	17	0	0	Upland Conifers		0	
12	0	0	12	Upland Mixed Forest		0	12
17	17	0	0	Water		0	
1,520	1,237	15	268	Total Forested Acres	15	257	12
	81%	1%	18%	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	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: buffer along Muskegon River							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Matt Edison : Examiner

Compartment: 99
Year of Entry: 2022

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
 Matt Edison : Examiner

Compartment: 99
 Year of Entry: 2022

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Matt Edison : Examiner

Compartment: 99
Year of Entry: 2022

13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Save and treat with adjacent next entry							

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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	4131 - Aspen, Oak	Sapling Medium	13.1	16	Immature	N/A	Somewhat sparse mixed regeneration with scattered residual large Oak.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		20	Log/Pole	12		Northern Pin Oak	
Bigtooth Aspen		50	Sapling	2	16	Low	
Beech		15	Sapling	3		< 5 feet	
Green Ash		15	Sapling	3		Sapling	
2	4130 - Aspen	Sapling Well	27.5	26	Immature	N/A	Thick regeneration, mostly Aspen.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Sapling	3		Northern Pin Oak	
Red Oak		10	Log/Pole	12		Low	
Bigtooth Aspen		80	Sapling	4	26	< 5 feet	
3	4130 - Aspen	Sapling Well	74.8	6	Immature	N/A	Stand harvested with sale #63-009-12-01 Wayback Mix. Aspen/mix regeneration with scattered residual oak. Some of the large residual oak have blown down.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Sapling	1	6		
Red Oak		5	Log/Pole	10			
Bigtooth Aspen		75	Sapling	1	6		
4	4124 - Red with White Oak	Sawtimber Poor	27.0	65	1-50	N/A	Cut in 2012 #63-009-12-01 Wayback Mix.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		80	Log/Pole	10	65	White Pine	
White Oak		20	Pole	8		High	
						10 - 20 feet	
						Sapling	
5	4130 - Aspen	Poletimber Well	29.6	38	111-140	N/A	Pole size Aspen, looks good. Check next entry for possible treatment.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Pole/Sapling	7		Red Maple	
Bigtooth Aspen		80	Pole/Sapling	7	38	Low	
						5 - 10 feet	
						Sapling	
						Balsam Fir	
						Low	
						5 - 10 feet	
						Sapling	
6	4124 - Red with White Oak	Sawtimber Well	34.2	90	81-110	N/A	Treated last entry. Log sized oak over aspen maple sprouts. Some white pine scattered. Hold and check next entry.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		60	Log/Pole	12	90	Red Maple	
White Oak		30	Log/Pole	10		Medium	
Red Pine		10	Log/Pole/XLog	14		Low	
						10 - 20 feet	
						Sapling	
						Bigtooth Aspen	
						Low	
						10 - 20 feet	
						Sapling	
						White Pine	
						Medium	
						5 - 10 feet	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
7	6120 - Lowland Cedar	Sawtimber Well	35.3	100	141-170	N/A	Shorter height trees. Mixed with tag alder brush in open wet pockets. Lots of deer sign during inventory 1/2020.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	10	Log/Pole	10		
		Bigtooth Aspen	10	Log/Pole	10		
		Balsam Fir	5	Pole/Sapling	6		
		Northern White Cedar	55	Pole/Log	8	100	
		White Pine	10	Log/Pole/XLog	14		
		Hemlock	10	Log/Pole	10		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Balsam Fir	Low	< 5 feet	Sapling		
8	4130 - Aspen	Poletimber Well	9.5	22	111-140	N/A	
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	30	Pole/Sapling	5		
		Bigtooth Aspen	70	Pole/Sapling	5	22	
		Sub-Canopy Species	Density	Avg. Height	Size		
		Red Maple	Medium	< 5 feet	Sapling		
9	4126 - White, Black, N. Pin Oak	Sawtimber Well	61.8	90	81-110	N/A	Dead oak has been salvaged and stolen in past. Consider final harvest treatment.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	20	Pole	8		
		Red Oak	20	Log/Pole	12		
		White Oak	20	Pole	9		
		Bigtooth Aspen	10	Log/Pole	10		
		Northern Pin Oak	30	Log	12	90	
		Sub-Canopy Species	Density	Avg. Height	Size		
		Red Maple	Low	< 5 feet	Sapling		
		Northern Pin Oak	Low	< 5 feet	Sapling		
		Red Oak	Low	< 5 feet	Sapling		
10	6239 - Mixed Emergent Wetland	Nonstocked	24.9			No	Cattails and water.
		Sub-Canopy Species	Density	Avg. Height	Size		
		Northern White Cedar	Low		Pole		
11	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	7.2	95	81-110	N/A	Corridor along creek and marsh. Wet ground, poorer quality site and growth.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	10	Log/Pole	10		
		Bigtooth Aspen	5	Log/Pole	10		
		Balsam Fir	20	Pole	6		
		Northern White Cedar	30	Pole/Log	8	95	
		White Pine	25	Log/Pole	10		
		Hemlock	5	Log/Pole	10		
		Green Ash	5	Pole	6		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Balsam Fir	Medium	5 - 10 feet	Sapling		
		White Pine	Medium	5 - 10 feet	Sapling		
12	4124 - Red with White Oak	Sawtimber Well	147.8	70	51-80	N/A	Treated last year of entry log size oak over aspen maple sprouts. Trails from south.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Oak	80	Log/Pole	12	70	
		White Oak	20	Log/Pole	10		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Red Maple	Medium	5 - 10 feet	Sapling		
		Bigtooth Aspen	Medium	5 - 10 feet	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
13	4131 - Aspen, Oak	Sapling Well	21.2	8	Immature	N/A	Treated with sale #63-009-12-01/ Final harvest with reserves, left oak less than 6 inches. Aspen mixed regeneration looks ok.																																					
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14	4130 - Aspen	Poletimber Well	58.7	38	111-140	N/A																																						
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16	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	19.7	95	1-50	N/A	Wet/ Low stand. Some tag alder in places.																																					
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17	4199 - Other Mixed Upland Deciduous	Sawtimber Well	23.5	95	51-80	N/A	Log size oak over aspen/ maple. Oak salvage in 1994.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
26	4319 - Mixed Upland Forest	Sawtimber Medium	11.6	90	1-50	N/A	Corridor along river.																																											
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27	4130 - Aspen	Poletimber Well	69.3	50	141-170	N/A	Treat this entry. Final harvest all. Consider splitting stand/ treatment for age class diversity.																																											
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28	4139 - Aspen, Mixed Deciduous	Sapling Well	3.1	8	Immature	N/A	Sale #63-024-12.																																											
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29	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	7.3	50	81-110	N/A	Save and harvest with portion of stand to west next entry.																																											
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30	500 - Water	Nonstocked	1.8			No	Muskegon river																																											
31	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	28.1	80	81-110	N/A	River corridor/ Floodplain. Hardwoods with tanding water throughout. Poorer quality and serious accessibility questions.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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32	42110 - Planted Red Pine	Poletimber Well	33.9	64	111-140	N/A	This was second row thinned in 2014										
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Canopy Species	% Cover	Size Class	DBH	Age													
Red Pine	100	Pole/Log	9	64													

33	3102 - Grass	Nonstocked	0.4			No	old landing in pine plantation												
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34	4134 - Aspen, Spruce/Fir	Poletimber Well	17.0	37	141-170	N/A	Aspen/mix. Some areas are poorer quality than others. Was treated as one stand in the past.. Wet pockets throughout.																																			
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35	4112 - Maple, Beech, Cherry Association	Sapling Medium	2.6	5	Immature	N/A	Wet on edges. Cut with sale 63-011-12-01 Muskegon Mix.																											
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Red Maple	90	Sapling	1	5	Leatherleaf	Low	< 5 feet	Tall Shrub																										
White Pine	10	Sapling	2																															

36	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	7.0	85	81-110	N/A																																														
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37	42110 - Planted Red Pine	Poletimber Well	28.3	64	111-140	N/A	This was second thinned in 2014																											
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38	4139 - Aspen, Mixed Deciduous	Sapling Medium	9.5	14	Immature	N/A	Aspen mix regen. with scattered oak residual.																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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39 4132 - Aspen, Jack Pine Sapling Well 9.3 5 Immature N/A Cut with sale 63-011-12-01 Muskegon Mix./ final harvest with reserves. East and Western ends have most of jack pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling	1	5	Red Maple	Low	5 - 10 feet	Sapling
Red Oak	10	Log/Pole/XLog	14		Balsam Fir	Low	5 - 10 feet	Sapling
Bigtooth Aspen	50	Sapling	1	5				
Jack Pine	20	Sapling	1	5				

40 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 9.4 35 51-80 N/A Very wet and poor site.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	6		Red Maple	Medium	5 - 10 feet	Sapling
Paper Birch	10	Sapling/Pole	4		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Poplar	10	Sapling/Pole	4		Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	30	Sapling/Pole	4					
Green Ash	40	Pole/Sapling	5	35				

41 6220 - Alder/willow Nonstocked 10.2 No

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

42 500 - Water Nonstocked 2.9 No

43 500 - Water Nonstocked 12.2 No

44 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Medium 39.4 85 51-80 N/A River corridor and floodplain. Very wet and standing water in places.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Log/Pole	12	85	Red Maple	Medium	10 - 20 feet	Sapling
White Ash	5	Log/Pole	10		Bigtooth Aspen	Low	10 - 20 feet	Sapling
Bigtooth Aspen	20	Log/Pole	12		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Poplar	5	Log/Pole	10		Alder	High	10 - 20 feet	Tall Shrub
Balsam Fir	20	Pole	6					
Green Ash	20	Sapling/Pole	4					

45 42110 - Planted Red Pine Poletimber Well 2.5 64 111-140 N/A Third row thinned in 2014

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	10	Log	14		Red Maple	Low	5 - 10 feet	Sapling
Red Pine	90	Log/Pole	10	64	Balsam Fir	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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49 4130 - Aspen Sapling Well 14.5 24 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	3	
Bigtooth Aspen	60	Sapling	3	24
Northern Pin Oak	10	Sapling	3	
Balsam Fir	10	Sapling	3	

50 4130 - Aspen Poletimber Well 40.3 37 111-140 N/A Diameters are still small, check in 10 years.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	5		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	70	Pole/Sapling	6	37				
Northern Pin Oak	10	Pole/Sapling	5					
Balsam Fir	10	Pole	6					
White Pine	5	Pole/Sapling	5					

51 629 - Mixed non-forested wetland Nonstocked 38.4 Unspecified No Wet area with scattered dead ash cattails and alder.

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Medium		Non-Wood
Green Ash	Low		Pole
Red Osier Dogwood	Low		Tall Shrub
Tag Alder	Medium		Tall Shrub

53 4199 - Other Mixed Upland Deciduous Sapling Well 19.3 26 Immature N/A Aspen/maple regen. with white pine and oak residual.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	45	Sapling/Pole	4	26
Bigtooth Aspen	35	Sapling/Pole	4	
Northern Pin Oak	5	Log/Pole	10	
White Pine	15	Log/Pole	10	

54 4130 - Aspen Poletimber Well 43.1 26 Immature N/A Aspen mix regen. Getting into pole sized, looks ok.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Sapling	5	
Bigtooth Aspen	60	Pole/Sapling	5	26
Northern Pin Oak	10	Pole/Sapling	4	
Balsam Fir	10	Pole	6	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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55	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	39.3	85	51-80	N/A	Lowland mix of poorer quality, low ground deciduous. Standing water in some places.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Log/Pole	10	85	Red Maple	Medium	10 - 20 feet	Sapling
White Ash	10	Log/Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	20	Log/Pole	10		Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	20	Pole	6		Bigtooth Aspen	Low	5 - 10 feet	Sapling
Green Ash	20	Pole	4					

56	6239 - Mixed Emergent Wetland	Nonstocked	5.9		Unspecified	No	beaver activity cutting aspen saplings
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Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Low		Non-Wood
Green Ash	Low		Sapling
Alder	Medium		Tall Shrub
Red Maple	Low		Sapling
Bigtooth Aspen	Low	Unspecified	Sapling

57	6113 - Lowland Maple	Poletimber Poor	8.8	60	1-50	N/A	Very wet stand with lots of standing dead trees. Standing water in general. Poor site could be non-forested next entry.
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Canopy Species	% Cover	Size Class	DBH	Age
American Elm	10	Pole	6	
Red Maple	60	Pole/Log	8	60
White Ash	5	Pole/Log	8	
Balsam Fir	10	Pole	6	
Green Ash	15	Pole	6	

58	4130 - Aspen	Poletimber Medium	8.9	37	81-110	N/A	Aspen mix regen. with oak and pine residual.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Sapling	5	
Bigtooth Aspen	70	Pole/Sapling	5	37
Northern Pin Oak	10	Pole/Sapling	4	
White Pine	10	Pole/Sapling	6	

59	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	8.4	70	51-80	N/A	Wet. fringe area adjacent to river. Bufer area.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Log/Pole	12	70	Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	10	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling
Bigtooth Aspen	10	Log/Pole	12					
Balsam Fir	10	Pole/Sapling	6					
Northern White Cedar	10	Pole	6					
Green Ash	10	Pole	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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60 6119 - Mixed Lowland Deciduous Forest Sawtimber Poor 38.0 110 1-50 N/A Mostly dead standing snags creek meanders throughout stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Log/Pole	12		Red Maple	Low	< 5 feet	Sapling
White Ash	40	Log/Pole	10	110	White Ash	Low	10 - 20 feet	Sapling
Balsam Poplar	20	Log/Pole	12					
White Pine	10	Log/Pole	12					

61 42110 - Planted Red Pine Sapling Well 32.4 8 Immature N/A Cut as part of TS# 63-043-09. "C-99 RPP". Planted in 2012.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Sapling	1	8

62 4131 - Aspen, Oak Sapling Medium 15.8 7 Immature N/A Patchy regeneration from cut on 2013. Cut as part of 63-011-12-01 Muskegon Mix Sale. The larger WP and RP are on the perimeter border edge of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	50	Sapling	1	7
White Pine	5	Log/Pole	10	
Red Pine	2	Log	12	
Red Maple	15	Sapling	1	
Red Oak	20	Sapling	1	
Northern Pin Oak	8	Sapling	1	

63 429 - Mixed Upland Conifers Poletimber Well 16.8 44 141-170 N/A Nice White Pine mixed with mature Aspen. Harvest Aspen and other, but leave some large White Pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	30	Pole	9	44	Balsam Fir	Medium	5 - 10 feet	Sapling
Northern Pin Oak	10	Pole	8		White Pine	Low	< 5 feet	Sapling
Balsam Fir	10	Pole/Sapling	6					
Black Spruce	10	Pole	6					
White Pine	30	Log/Pole	10					
Jack Pine	10	Pole/Log	8					

64 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 7.9 110 81-110 N/A Wet stand. heavy deer activity in winter.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Log	10		Red Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen	10	Log/Pole	12		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	30	Pole	6		Black Spruce	Low	5 - 10 feet	Sapling
White Pine	30	Log/Pole	14	110				
Hemlock	10	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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65 4136 - Aspen, Mixed Conifer Poletimber Well 57.3 53 141-170 N/A Nice Aspen, some pockets of smaller. Harvest this entry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log	14		Balsam Fir	Low	5 - 10 feet	Sapling
Bigtooth Aspen	70	Pole/Sapling	6	53	White Pine	Low	5 - 10 feet	Sapling
Balsam Fir	10	Pole	6					
White Pine	10	Pole/Log	8					

66 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 24.7 80 81-110 N/A Low and wet. No access

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Log/Pole	10		Balsam Fir	High	5 - 10 feet	Sapling
Bigtooth Aspen	25	Log/Pole	12	80	White Pine	High	10 - 20 feet	Sapling
Balsam Fir	15	Pole	8					
Northern White Cedar	10	Pole	8					
White Pine	10	Log/Pole	14					
Hemlock	5	Pole/Log	8					
Green Ash	10	Pole/Sapling	5					

67 4125 - Black, N. Pin Oak Sawtimber Well 3.9 90 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		Red Maple	Low	5 - 10 feet	Sapling
Northern Pin Oak	60	Log/Pole	14	90	Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	10	Pole	7		White Pine	Low	5 - 10 feet	Tall Shrub
White Pine	20	Pole	6					