

CADILLAC FOREST MANAGEMENT UNIT



COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 141 ENTRY YEAR: 2014

County: Wexford

Revision Date: 10/09/2012 2:23 PM

Stand Examiner: Derek Cross, Forester

Legal Description: T22N R 9 W, Sections 1, 2, 3, 10, 11 & 12

Management Goals: This compartment is located within close proximity to the city of Cadillac. It receives a high volume of year round recreation activity.

Soil and Topography: Rubicon-Montcalm-Graycalm in the uplands and Muck and Peat in lowlands. Numerous potholes, lakes and bogs with rolling topography in the uplands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Mixed public and private lands with no intensive residential development adjoining state owned lands. There is an 11 acre parcel for sale with frontage on Long Lake that should be considered for acquisition. There are also several land locked parcels in section 12 that should be considered.

Unique, Natural Features (include only non-site specific and non-sensitive information): Emergent Marsh element occurrence in section 12 Round Lake. Northern wet meadow and submergent marsh in section 3 (Long Lake). The common loon is present throughout the compartment. Potential for blanding's turtle, spotted turtle, secretive locust, and ebony bog haunter in bog cover types.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None Known

Special Management Designations or Considerations: Riparian zones should be buffered and aesthetics maintained during harvest operations.

Watershed and Fisheries Considerations: Long Lake, Whitlock Lake, and Island Lake are located within Compartment 141. Long Lake provides fishing for largemouth bass, northern pike, bluegill, black crappie, pumpkinseed sunfish, and yellow perch. Protection for these lakes and other ponds should follow the Best Management Practice setbacks recommended in the Forest management Guidelines. (R. O'Neal 10/12)

Wildlife Habitat Considerations: Management should be centered on maintaining existing cover types due to the good mixture of habitats provided, regenerating oak, and providing adequate buffers for the potholes, bogs and lakes in this compartment. Featured species guidance will be considered for American bittern, American woodcock, beaver, black bear, eastern massasauga rattlesnake, mallard, pileated woodpecker, red-headed woodpecker, ruffed grouse, snowshoe hare, white-tailed deer, and wood duck. (E. Victory 9/2012)

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and an end moraine of coarse-textured glacial till. The

glacial drift thickness varies between 600 and 1,000 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay/shale elsewhere in the State. A gravel pit is located in Section 11 and gravel potential is considered to be good, especially the upland areas. This area lies eighteen miles southeast of the prolific Guelph (Niagaran) reef trend, but there does not appear to be any potential for reefs in this area. This area is partially leased for oil and gas.

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. Proposed new roads or roads recommended for substantial improvement are noted below.

Survey Needs: None Needed

Recreational Facilities and Opportunities: Recreational Facility Considerations: Long Lake State Forest Campground, and road are located within this compartment. Any proposed harvesting within the campground or along the campground road should be completed during non camping season, using a short wood technique to reduce damage to desirable understory trees. Approximately 4 miles of the Long Lake motorcycle trail pass through the compartment. The Long Lake Motorcycle Trail is designated by Directors Order to remain 2 wheeled vehicles only trail- therefore this trail should be kept tight, narrow, and curvy. The non-motorized shore to shore riding and hiking trail passes thru this compartment. Proposed timber management activities should include trail protection specifications to reduce user impacts, as well as serve as an example of how silviculturally sound timber management practices can co-exist, and often improve recreation and wildlife experiences for future generations. (T.M.N. 8-31-12)

Fire Protection: Access is by county and forest roads. Terrain will be a concern for access of fire suppression equipment. Recreational use has the potential to be a cause of wildfires in the area. Recreational users will be a concern during a wildfire or prescribed burn. Dry periods of weather may be an issue for muck fires. (BET 8-1-12)

Additional Compartment Information:

The following 9 Inventory reports from are attached:

- ◆ Table 1 - Cover Type by Age Class
- ◆ Table 2 - Treatment Type Summary
- ◆ Table 3 – Treatments with No Limiting Factors
- ◆ Table 4 – Treatments with Limiting Factors
- ◆ Table 5 – Out of YOE Treatments (when applicable)
- ◆ Tables 6 & 7- Forested and Nonforested stands
- ◆ Tables 8 & 9 – Proposed and Dedicated Special Conservation Areas

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

- ◆ Base feature information, stand numbers, cover types
- ◆ Proposed treatments
- ◆ Suggested potential and current SCA's

Table 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	0	25	178	116	12	0	33	5	0	0	0	0	0	105	474
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Jack Pine	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Low-Density Trees	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	0	9	0	0	0	2	0	0	0	0	10
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Spruce/Fir	0	0	0	0	11	8	0	0	0	0	0	0	0	0	20
Marsh	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Mixed Upland Deciduous	0	0	5	0	0	0	12	25	34	82	0	0	0	30	187
Natural Mixed Pines	0	0	0	0	0	0	21	0	0	0	0	0	0	0	21
Northern Hardwood	0	0	0	0	0	0	0	18	0	0	0	0	0	0	18
Oak	0	0	0	0	0	0	0	6	0	0	0	0	0	140	146
Planted Mixed Pines	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
Red Pine	0	0	0	0	0	118	0	0	0	0	0	0	0	0	118
Treed Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Mixed Forest	0	0	0	0	45	20	0	0	0	0	0	0	1	75	142
Upland Spruce/Fir	0	0	0	0	0	16	0	0	0	0	0	0	0	0	16
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	124	0	0	0	0	0	0	0	0	0	0	0	0	0	124
Total	185	25	183	116	69	181	67	54	37	84	0	0	1	349	1351



Table 2 – Proposed Treatment Summaries

Cadillac Mgt. Unit
Year of Entry 2014

Compartment 141
Total Compartment Acres: 1351

Acres by Treatment Type

Commercial Harvest - 262	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	88	8	0	0	0	0	96
Jack Pine	9	0	0	0	0	0	9
Mixed Upland Deciduous	49	34	0	6	0	0	90
Natural Mixed Pines	0	21	0	0	0	0	21
Northern Hardwood	0	0	0	0	18	0	18
Planted Mixed Pines	3	0	0	0	0	0	3
Red Pine	0	0	0	0	5	0	5
Upland Mixed Forest	0	0	0	0	20	0	20
Total	150	63	0	6	43	0	262



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
7	63141007-Cut	34.1	4191 - Mixed Upland Deciduous with Conifer	High Density Log	87	81-110	Harvest	Single Tree Selection	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription.</u> Work with PRD to remove hazard trees and open up around camp sites.										
<u>Specs:</u>										
<u>Other</u> Contact park manager at Mitchell State Park when setting up project. They would like to be involved in sale layout and tree designation.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2012										
8	63141008-Cut	17.6	4119 - Mixed Northern Hardwoods	High Density Log	75	81-110	Harvest	Crown Thinning	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription.</u> Remove Ash and Beech										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2012										
11	63141011-Cut	8.0	4133 - Aspen, Mixed Pine	High Density Log	67	111-140	Harvest	Group Selection	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Prescription.</u> Remove aspen, red maple and white pine under 16". Focus retention along stand 10.										
<u>Specs:</u>										
<u>Other</u> Do not cut trees along the trail bed of the long lake cycle trail.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
13	63141013-Cut	5.4	4139 - Aspen, Mixed Deciduous	High Density Log	70	171-200	Harvest	Clearcut with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Prescription.</u> Cut all aspen and red maple retain oak and white pine.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
20	63141020-Cut	18.3	4131 - Aspen, Oak	High Density Log	61		Harvest	Clearcut with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal
<u>Prescription.</u> Cut all aspen and red maple. mark some oak to cut in the high density pockets. Focus retention along the cycle trail and the shore to shore trail.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
27	63141027-Cut	21.2	42260 - Natural Pine, Mixed Deciduous	High Density Log	63	200+	Harvest	Group Selection	42250 - Pine, Oak	Cmpt. Review Proposal
<u>Prescription</u> Remaove all aspen and red maple, mark pine to lower BA and release oak poles in understory. focus retention around scattered wet pockets and <u>Specs:</u> cycle trail and the shore to shore trail.										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										
28	63141028-Cut	8.2	4130 - Aspen	Low Density Pole	32		Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<u>Prescription</u> Cut all aspen and maple retaining oak. Retention will be along the cycle trail.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										
29	63141029-Cut	20.1	4319 - Mixed Upland Forest	High Density Pole	51	111-140	Harvest	Systematic Thinning	4319 - Mixed Upland Forest	Cmpt. Review Proposal
<u>Prescription</u> Row thin spruce follow a take two leave two pattern.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										
31	63141031-Cut	6.3	4199 - Other Mixed Upland Deciduous	High Density Log	77	171-200	Harvest	Shelterwood	4121 - Oak, Aspen	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood harvest retaining 30-50 BA of oak and a representative sample of other species.										
<u>Specs:</u>										
<u>Other Comments:</u> Cycle trail borders east edge of stand. Retain heavier stand density along trail.										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										

**Table 3 -- Treatments Prescribed
with No Limiting Factor**



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33	63141033-Cut	37.3	4131 - Aspen, Oak	High Density Pole	36	141-170	Harvest	Clearcut with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal

Prescription Final harvest retaining some oak.

Specs:

Other

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2013

53	63141053-Cut	5.2	42110 - Planted Red Pine	High Density Log	56	200+	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Thin to 120 BA. Removing all slash and cutting stumps flush to the ground.

Specs:

Other

Cadillac horse camp is located in this stand.

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2013

60	63141060-Cut	7.1	4132 - Aspen, Jack Pine	Medium Density Pole	63	81-110	Harvest	Clearcut with Reserves	42250 - Pine, Oak	Cmpt. Review Proposal
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Prescription Cut all jack pine, aspen and red maple. Buffer ponds and create CWD along pond edges for wildlife species.

Specs:

Other

Comments:

Next

Regen Check

Steps:

Proposed

Start Date: 10/01/2013

64	63141064-Cut	12.0	4130 - Aspen	High Density Pole	47		Harvest	Clearcut with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
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Prescription Final harvest aspen and red maple retaining the oak-pine component.

Specs:

Other

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2013

Table 3 -- Treatments Prescribed
with No Limiting Factor

S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
65	63141065-Cut	8.9	42221 - Natural Jack Pine, Mixed Deciduous	High Density Log	59	81-110	Harvest	Clearcut with Reserves	42250 - Pine, Oak	Cmpt. Review Proposal
<u>Prescription</u> Final harvest all jack pine and aspen.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
69	63141069-Cut	3.1	42130 - Planted Scotch Pine	High Density Pole	80	51-80	Harvest	Clearcut	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Remove scotch pine and replant to red pine.										
<u>Specs:</u>										
<u>Other</u> Survey required										
<u>Comments:</u>										
<u>Next</u> Replant to red pine.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
70	63141070-Cut	49.2	4191 - Mixed Upland Deciduous with Conifer	High Density Log	93	51-80	Harvest	Clearcut with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Prescription</u> Final harvest retaining a some oaks and pines try and focus on better quality trees.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
Total Treatment Acreage Proposed:		262.0								

Table 4 -- Treatments Prescribed with a Limiting Factor



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Error

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: 0

**Out of YOE -- Treatments
Prescribed with No Limiting Factor**

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
	5.2	Unspecified				Harvest	Unspecified	Unspecified	Cmpt. Review Proposal - Incomplete
<u>Prescription Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u> <u>Proposed Start Date:</u>									
	3.5	Unspecified				Harvest	Unspecified	Unspecified	Cmpt. Review Proposal - Incomplete
<u>Prescription Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u> <u>Proposed Start Date:</u>									
	0.1	Unspecified				Harvest	Unspecified	Unspecified	Cmpt. Review Proposal - Incomplete
<u>Prescription Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u> <u>Proposed Start Date:</u>									
	0.0	Unspecified				Harvest	Unspecified	Unspecified	Cmpt. Review Proposal - Incomplete
<u>Prescription Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u> <u>Proposed Start Date:</u>									

**Out of YOE -- Treatments
Prescribed with No Limiting Factor**

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
63086083-Cut	10.2	4123 - Red Oak	High Density Log	80		Harvest	Shelter Wood with Reserves	4124 - Red with White Oak	Cmpt. Review Proposal

Prescription Mark red and white oak in groups reducing basal area down to an average of 30 sq.ft.(range from 20-50).

Specs:

Other This is a natural continuation of stand 1 in Comp 79 (also prescribed).

Comments:

Next Follow harvest with roller chopping of red maple in gaps from previous harvest. Goal is to decrease red maple and cause enough scarification with harvest to create a seedbed for adjacent pine to seed in, as well as oak. Stump sprout oak is not expected, but would be welcome. Regen survey per work instructions.

Proposed
Start Date: 10/01/2013

**Total Treatment
Acreage Proposed: 19.0**

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Cadillac Mgt. Unit

5 – Forested Stands

Compartment: 141

Year of Entry: 2014



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4133 - Aspen, Mixed Pine	High Density Sapling	14.2	26	81-110	This is a regenerating aspen and oak mix that is progressing nicely. Aspen is concentrated in clones and the oak, pine is scattered throughout. There are scattered mature overstory oak that were left from the previous harvest.
2	4130 - Aspen	High Density Pole	18.7	25		Predominately aspen regen with mature red oak and white pine scattered throughout.
5	4130 - Aspen	High Density Sapling	12.6	19		Aspen regen 15-20 ft some pine and mature oak
7	4191 - Mixed Upland Deciduous with Conifer	High Density Log	34.1	87	81-110	Long Lake State forest Campground is located within the boundaries of this stand.
8	4119 - Mixed Northern Hardwoods	High Density Log	17.6	75	81-110	Lots of hardwood regen thinned 2 rotations ago.
9	4123 - Red Oak	High Density Log	5.7	71	81-110	oak stand that follows a ridge between 2 water features. access would be difficult.
10	6129 - Mixed Coniferous Lowland Forest	High Density Log	1.9	97	200+	New stand added. Lowland pocket with hardwood ridges on either side. Standing water throughout the stand with some flow noticed in several area. Slash that is present is most windy thrown cedar.
11	4133 - Aspen, Mixed Pine	High Density Log	8.0	67	111-140	Stand is a mix of mature aspen and red maple intermixed with oak and pine.
13	4139 - Aspen, Mixed Deciduous	High Density Log	5.4	70	171-200	Had a hard time getting a solid core out of the bigger aspens took a smaller aspen core at 53 years. Estimate the larger trees at 70+ years.
15	4130 - Aspen	High Density Sapling	34.1	22		Good aspen regen.
16	4130 - Aspen	High Density Sapling	19.8	Uneven Age		Most of the stand is regenerating aspen. There are scattered pockets of mature oak, aspen and red maple. These pockets are not big enough to manage individually.
17	4191 - Mixed Upland Deciduous with Conifer	High Density Log	18.6	74	141-170	Stand is located on both sides of long lake rd. Harvest on the west side would be impracticable due to lakeshore buffer. There is a kettle hole lake on the west side of the rd impeding harvest. Leave stand at this time.
20	4131 - Aspen, Oak	High Density Log	18.3	61		Access stand from the north.
21	6122 - Black Spruce	Medium Density Pole	11.3	47		Water levels were too high to access without hip boots. Tree cored on edge.
22	4130 - Aspen	High Density Pole	34.6	23		Good looking aspen regen with mature oaks and some pine. Mccct trail borders the edge of this stand.

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Cadillac Mgt. Unit

5 – Forested Stands

Compartment: 141
Year of Entry: 2014

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4130 - Aspen	High Density Pole	21.2	27		Good looking aspen just reaching pole size.
24	42110 - Planted Red Pine	High Density Pole	19.6	51	141-170	Third row thinned in 2007 slash still present.
26	4123 - Red Oak	High Density Sapling	27.6	Uneven Age	111-140	Nice oak with young aspen and red maple underneath.
27	42260 - Natural Pine, Mixed Deciduous	High Density Log	21.2	63	200+	Contains low wet pockets that will have to be worked around.
28	4130 - Aspen	Low Density Pole	8.2	32		Aspen clones are scattered around an old opening. Clones are of various sizes and quality.
29	4319 - Mixed Upland Forest	High Density Pole	20.1	51	111-140	White spruce is fairly small in height and diameter.
30	6122 - Black Spruce	High Density Pole	8.4	53		Stand swapped from Non-Forested to Forested. Mostly black spruce and tamarack with scattered white pine on high spots. Age data was taken from an edge tree due to the high water table.
31	4199 - Other Mixed Upland Deciduous	High Density Log	6.3	77	171-200	Cycle trail borders east edge of stand.
32	4123 - Red Oak	Medium Density Log	53.4	Uneven Age	1-50	Areas of heavy browse
33	4131 - Aspen, Oak	High Density Pole	90.9	36	141-170	
35	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	8.6	57		Small winding lowland pocket surrounded oak and aspen.
36	4130 - Aspen	High Density Sapling	12.4	14		Good aspen regen with scattered mature oak in the overstory
37	4130 - Aspen	High Density Sapling	28.6	27		Good quality aspen regen.
38	4191 - Mixed Upland Deciduous with Conifer	High Density Log	12.2	69	51-80	Stand follows a ridge creating a buffer between 2 lakes and a road. Heavier to pine north of 2 track along horse trail this area also has some wet pockets that are to small to map.
42	4310 - Pine, Oak Mix	Medium Density Log	1.5	150		Stand is located on a small island.
43	4131 - Aspen, Oak	High Density Pole	17.1	37		Good looking aspen with wolfy oaks and white pine
45	42110 - Planted Red Pine	High Density Pole	14.9	51	111-140	Third row thinned in 2007 slash is still present.

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Cadillac Mgt. Unit

5 – Forested Stands

Compartment: 141

Year of Entry: 2014



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	4124 - Red with White Oak	Medium Density Log	17.2	Uneven Age	51-80	Shelterwood harvested last YOE large oak remains, good regen present.
48	4139 - Aspen, Mixed Deciduous	High Density Pole	26.6	27	171-200	Mostly aspen just reaching pole size. The majority of the conifers buffer the lake edge and are much larger than the rest of the stand.
49	42110 - Planted Red Pine	High Density Pole	37.9	56	141-170	Stand was thinned in 2005 some slash still present.
51	42110 - Planted Red Pine	High Density Pole	17.9	56	141-170	Thinned last rotation
52	42311 - Planted Spruce, Mixed Deciduous	Medium Density Pole	16.3	56	51-80	North polygon was thinned with stand 46 last rotation.
53	42110 - Planted Red Pine	High Density Log	5.2	56	200+	Cadillac horse camp is available for use under a use permit system for group camping.
54	4199 - Other Mixed Upland Deciduous	High Density Sapling	5.0	27		Good looking aspen and oak regen with mature oaks in the overstory.
55	4123 - Red Oak	Low Density Log	42.2	Uneven Age	1-50	This stand was harvested last rotation leaving mostly oak with some red maple and pine. Aspen sprouts are abundant and healthy. The red maple is stump sprouting but being browsed quite heavily very little has grown passed the browse line.
56	42110 - Planted Red Pine	High Density Log	2.7	56	141-170	Thinned last rotation
59	42110 - Planted Red Pine	High Density Pole	19.9	56	81-110	Thinned last rotation.
60	4132 - Aspen, Jack Pine	Medium Density Pole	7.1	63	81-110	Jack Pine is beginning to fall apart and die off. Stand buffers and weaves between several small wet areas.
63	4131 - Aspen, Oak	High Density Pole	84.7	Uneven Age		Aspen regen with mature oaks 30-50 ba
64	4130 - Aspen	High Density Pole	12.0	47		Mature upland deciduous mix. Large red and white pine scattered through out stand.
65	42221 - Natural Jack Pine, Mixed Deciduous	High Density Log	8.9	59	81-110	
66	4199 - Other Mixed Upland Deciduous	Medium Density Log	29.6	Uneven Age	1-50	regenerating
68	4310 - Pine, Oak Mix	High Density Pole	74.9	Uneven Age	141-170	Large Oaks with smaller Wp and other deciduous underneath. Wp and spruce appear to have been under planted.

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Cadillac Mgt. Unit

5 – Forested Stands

Compartment: 141
Year of Entry: 2014



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
69	42130 - Planted Scotch Pine	High Density Pole	3.1	80	51-80	Would need survey work to establish private boundary. Stand is located on both ownerships.
70	4191 - Mixed Upland Deciduous with Conifer	High Density Log	81.7	93	51-80	Scrubby mix of aspen clones and poor form oak.
71	4310 - Pine, Oak Mix	High Density Pole	45.4	46	111-140	Large oaks with white pine that appears to have been under planted in places and natural in other locations.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	50 - Water	10.2	No	Unspecified	
4	6239 - Mixed Emergent Wetland	19.9	No	Unspecified	
6	50 - Water	2.4	No	Unspecified	
12	50 - Water	36.3	No	Unspecified	Long Lake, There is a state forest Campground and boat launch located at the north end of the lake.
14	50 - Water	5.1	No	Low (NonForested)	
18	6229 - Mixed lowland shrub	6.6	No	Low (NonForested)	flowing water with scattered pockets of shrubs
19	50 - Water	4.3	No	Unspecified	Small Kettle Lake
25	6225 - Bog	6.5	Yes	Low (NonForested)	
34	3303 - Mixed Low Density Trees	4.4	No	Lowland Mixed Forest	Stand swapped from Forested to Non-Forested.
39	50 - Water	0.3	No	Low (NonForested)	
40	50 - Water	2.1	No	Unspecified	
41	6224 - Treed Bog	4.7	No	Low (NonForested)	
44	50 - Water	23.7	No	Unspecified	
47	50 - Water	21.7	No	Unspecified	
50	11 - Low Intensity Urban	7.9	No	Unspecified	
57	3303 - Mixed Low Density Trees	6.0	Yes	Mixed Upland Deciduous	Stand swapped from Forested to Non-Forested.
58	50 - Water	2.0	No	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
61	50 - Water	1.2	No	Unspecified	
62	50 - Water	13.8	No	Unspecified	
67	6239 - Mixed Emergent Wetland	1.6	No	Unspecified	
72	6233 - Wet Meadow	3.4	No	Unspecified	Appears to be seasonably wet. Visited sit 3/19/2012 and very little water was present.
73	50 - Water	1.1	No	Unspecified	



7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments
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8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

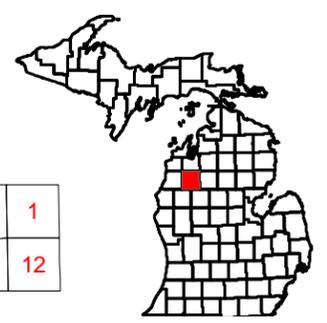
ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.

Cover Type & Treatment Map

Compartment: 141
 T22N R09W Sec. 1-3, 10-12
 County: Wexford
 Unit: Cadillac
 YOE: 2014
 Acres: 1,351 GIS Calculated
 Examiner: Derek Cross
 Map Revised: 10/08/2012
 Map Phase: Pre-Review

3	2	1
10	11	12

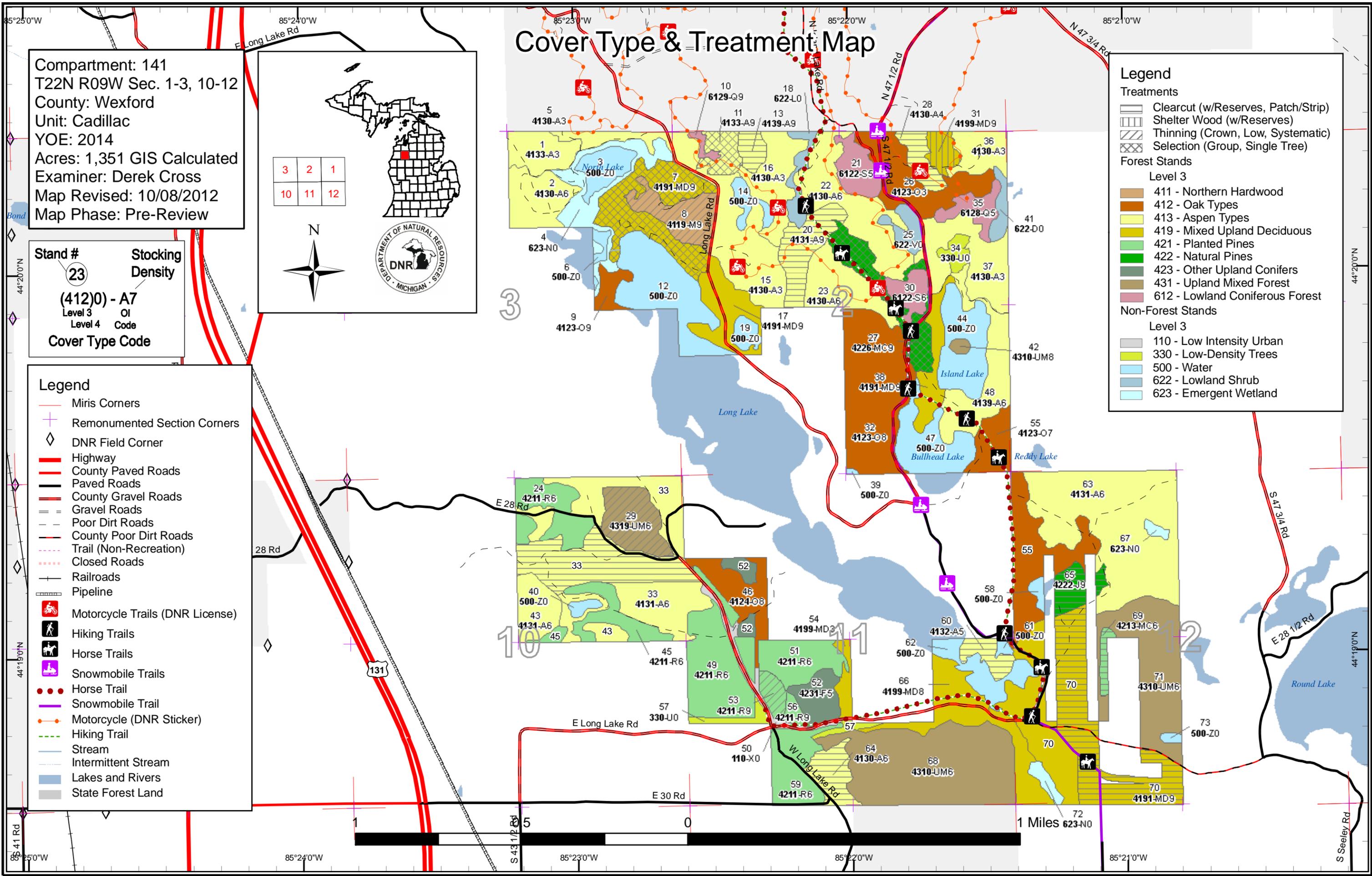


Stand # **23**
(412)0 - A7
 Level 3
 Level 4
 Cover Type Code

Stocking
 Density
 OI
 Code

- Legend**
- Miris Corners
 - Remonumented Section Corners
 - DNR Field Corner
 - Highway
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Trail (Non-Recreation)
 - Closed Roads
 - Railroads
 - Pipeline
 - Motorcycle Trails (DNR License)
 - Hiking Trails
 - Horse Trails
 - Snowmobile Trails
 - Horse Trail
 - Snowmobile Trail
 - Motorcycle (DNR Sticker)
 - Hiking Trail
 - Stream
 - Intermittent Stream
 - Lakes and Rivers
 - State Forest Land

- Legend**
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
 - Shelter Wood (w/Reserves)
 - Thinning (Crown, Low, Systematic)
 - Selection (Group, Single Tree)
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 431 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 110 - Low Intensity Urban
 - 330 - Low-Density Trees
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland

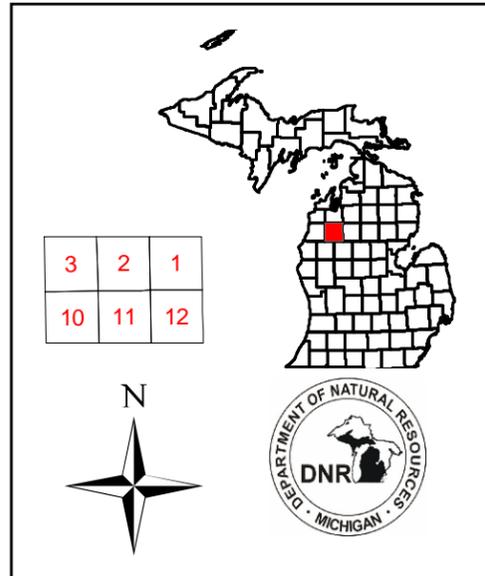


85°25'0"W 85°24'0"W 85°23'0"W 85°22'0"W 85°21'0"W

44°20'0"N 44°19'0"N

Dedicated & Proposed Special Conservation Area Map

Compartment: 141
 T22N R09W Sec. 1-3, 10-12
 County: Wexford
 Unit: Cadillac
 YOE: 2014
 Acres: 1,351 GIS Calculated
 Examiner: Derek Cross
 Map Revised: 10/08/2012
 Map Phase: Pre-Review



Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Legend

- Miris Corners
- + Remonumented Section Corners
- ▭ Stand Boundaries
- ▨ Proposed Special Conservation Areas
- ▤ SCA - Special Conservation Area
- ▥ SCA Removal
- ▧ Dedicated Special Conservation Areas
- ▲ Campgrounds
- ⚓ Boat Access Sites

Forest Stands

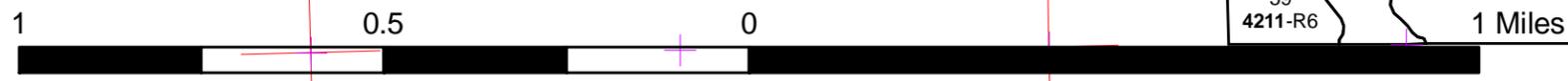
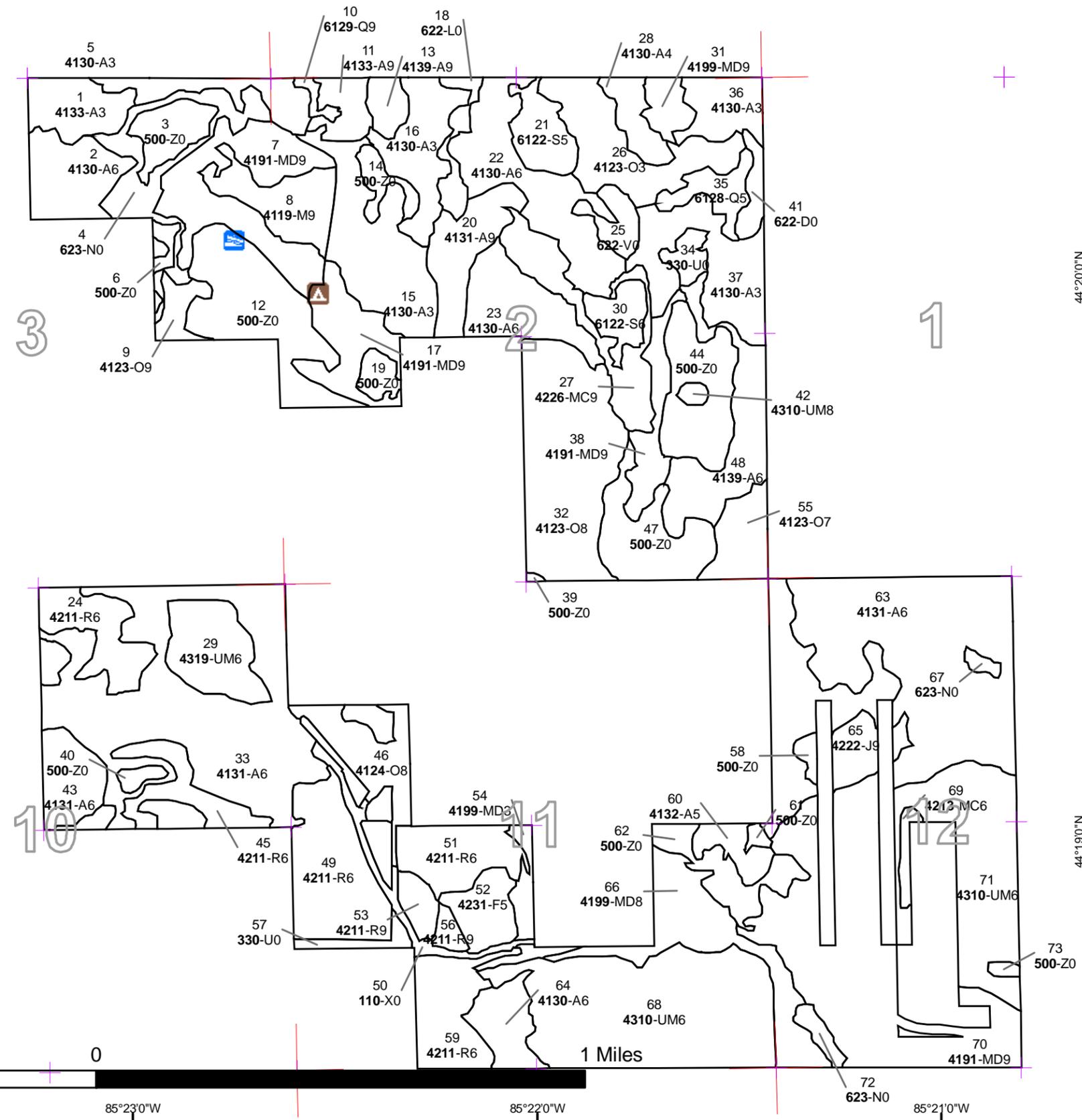
Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 110 - Low Intensity Urban
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



85°25'0"W 85°24'0"W 85°23'0"W 85°22'0"W 85°21'0"W

44°20'0"N

44°20'0"N

44°19'0"N

44°19'0"N