



CADILLAC FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 112 ENTRY YEAR: 2012

GIS Compartment Acreage: 1784 County: Missaukee

Revision Date: 9/9/10

Stand Examiner: Jim Malloy

Legal Description: T23N, R8W, Sections. 13, 24, 25, 26, 34

Management Goals: To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment while providing for multiple use and visual management.

Soils and Topography: Sands to loamy sands, some areas of muck. Rolling to hilly terrain, especially towards the northern portion of the compartment. Southern portion contains a few lakes. (Goose Lake, Long Lake, Twin Lake)

Ownership Patterns, Development, and Land Use in and Around the Compartment: Large solid blocks of state land with some private in every section. Lake City is just south of compartment. Two major state highways, M42 and M-66 are located in the compartment. M-42 bisects the compartment with M66 forming the east boundary of the compartment. Land use is primarily forest recreation. Goose Lake State Forest Campground and Long Lake State Forest Campground are located in the southern portion of the compartment. The compartment surrounds the Missaukee Ski Hill operated by the city of Lake City. To the west is the Indian Lakes property, a large privately owned and managed property.

Unique, Natural Features (include only non-site specific and non-sensitive information):

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): Woodland Indian mound listed on State Archeological Inventory (unknown location)

Special Management Designations or Considerations: Lake City School Forest an 80 acres parcel is located in the southeast portion of section 24. Efforts should be made to assist and encourage the management of the school forest as we work on the adjacent lands. Oak wilt issues surrounding the compartment will require monitoring and active management to attempt to contain/diminish the impacts of the disease.

Watershed and Fisheries Considerations: **TBD**

Wildlife Habitat Considerations: Featured wildlife species are deer, ruffed grouse, and turkey. Wildlife habitat objectives are to continue to maintain species and age class diversity across the compartment. (L Smith, 9/24/10)

Mineral Resource and Development Concerns and/or Restrictions:

Sections 13, 24-26 & 34, T23N-R8W, Missaukee County

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and end moraine deposits of coarse-textured till. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay/shale in other parts of the State. Gravel pits are located inside the compartment, Section 13, and gravel potential is considered good. This area is sparsely explored for oil and gas. The closest field is Falmouth. The field produces from the Stray Sandstone, Richfield and the Prairie du Chien (PdC). It was the first PdC field in Michigan. All state lands are leased for oil and gas development, or are nominated for the May 2010 auction.

Vehicle Access: See attached maps.

Survey Needs: None at this time

Recreational Facilities and Opportunities: A north-south spur of Miss-Kal Snowmobile Trail, which starts north of Lake City, is located in the compartment. It is a connection with the main east-west portion of the Miss-Kal Trail to the north. Goose Lake and Long Lake Campgrounds complex provides over 70 rustic forest campsites. Missaukee Mountain ski area is located in section 13 and is owned and operated by the Lake City. The land was provided to Lake City under a public use deed by the DNR. Dispersed hunting and fishing opportunities are available through out the compartment.

Fire Protection: Most areas of the compartment would not support crown fire. However, due to the terrain, limited access, and response time, the compartment has the potential for large fire growth. There are many areas of urban interface concern, within the compartment. 10-4-10/BRA

Additional Compartment Information: Missaukee Mountain is currently operating a cross-county ski trail on adjacent state forest land in section 13 and is being operated without a use permit.

LOTS Compartment Acreage: _____

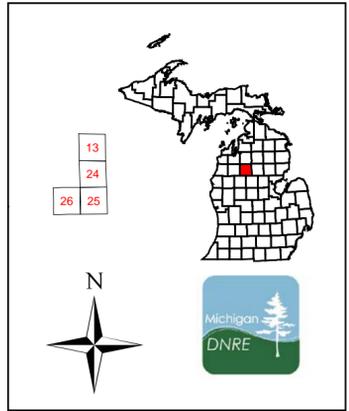
- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**

Cover Type & Treatment Map

Compartment 112
 T23N, R08W, Sec. 13, 24-26
 County: Missaukee
 Unit: Cadillac
 YOE: 2012
 Acres: 1,784 GIS Calculated
 Stand Examiner: James Malloy
 Map Revised: 9/10/2010
 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
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)

Forest Stands

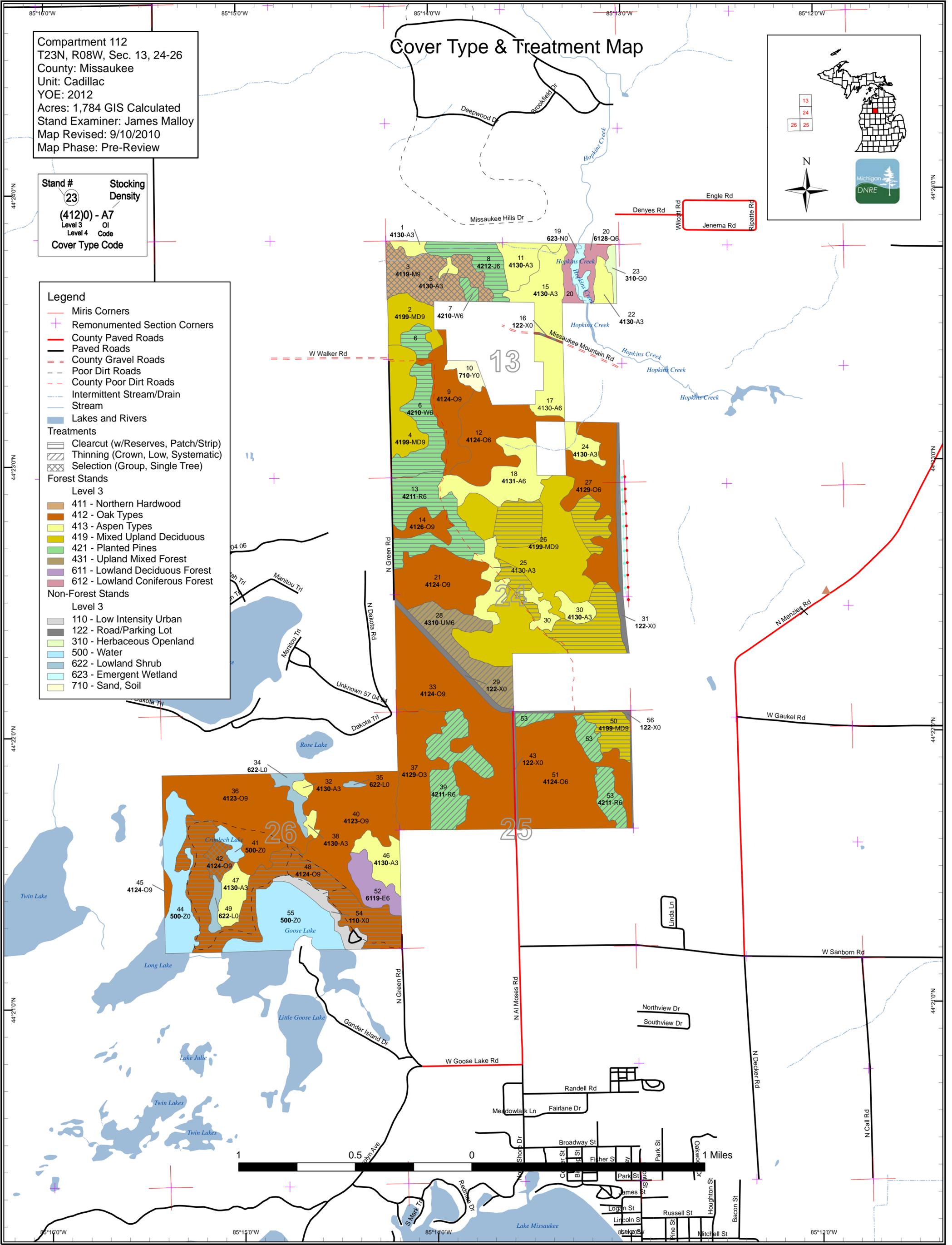
Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 110 - Low Intensity Urban
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil



85°16'0"W 85°15'0"W 85°14'0"W 85°13'0"W 85°12'0"W
 44°23'0"N 44°22'0"N 44°21'0"N 44°20'0"N

Stand Boundary Map

Compartment 112
 T23N, R08W, Sec. 13, 24-26
 County: Missaukee
 Unit: Cadillac
 YOY: 2012
 Acres: 1,784 GIS Calculated
 Stand Examiner: James Malloy
 Map Revised: 9/10/2010
 Map Phase: Pre-Review

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

Legend

- Miris Corners
 - Rezonumented Section Corners
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Trails
 - Snowmobile Trails
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
 - Stand Boundaries
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
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- Non-Forest Stands**
- Level 3
- 110 - Low Intensity Urban
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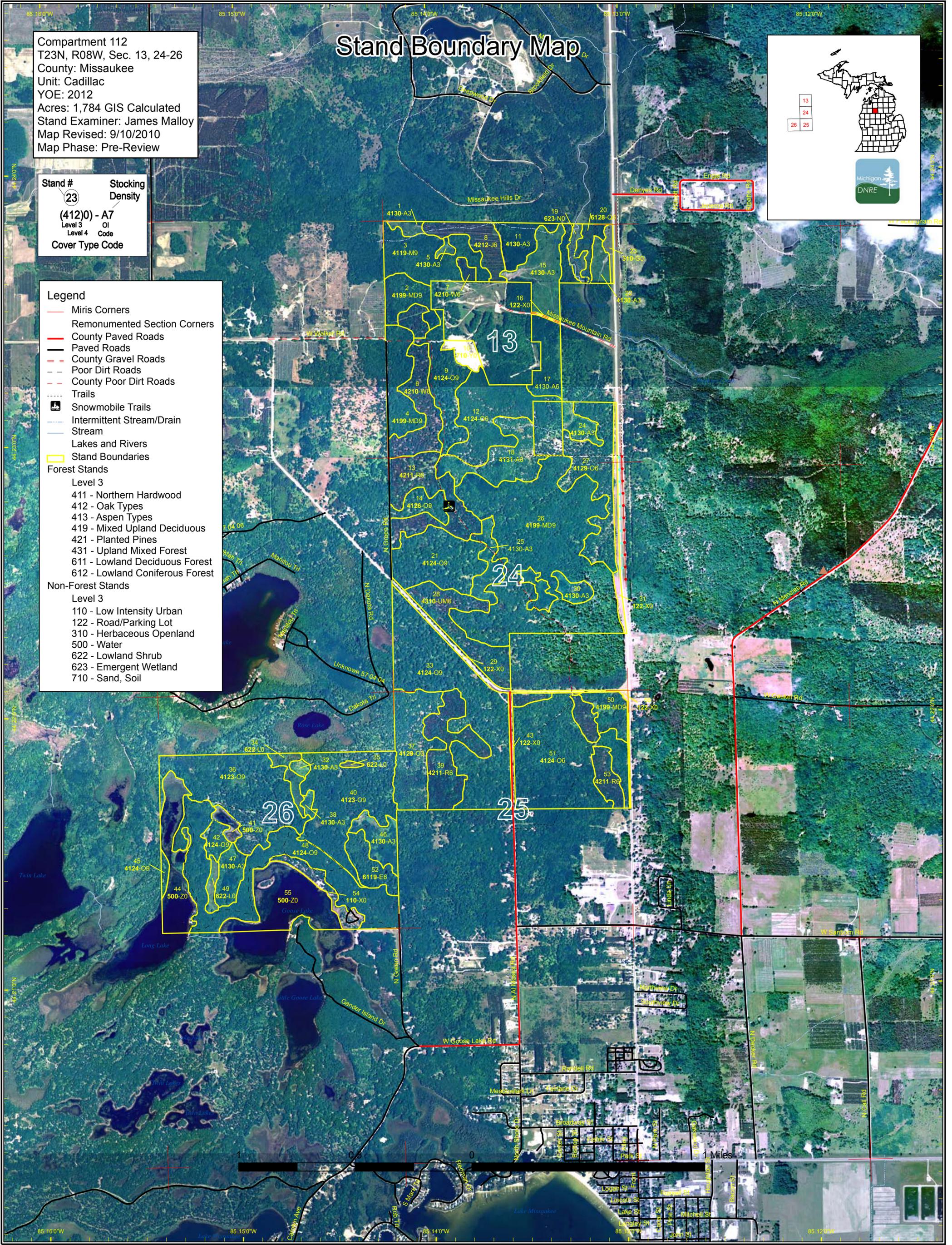
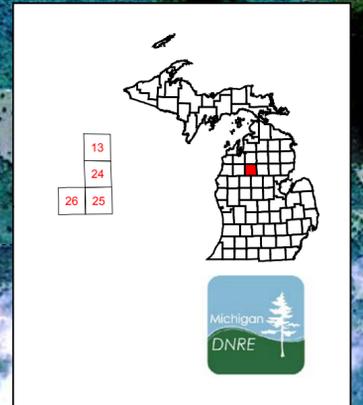


Table 1 – Total Acres by Cover Type and Age Class

Data updated yesterday after 6:00 PM



	Age Class														Total	
	Non-Forested	1-9	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	55	63	64	16	0	0	0	0	0	0	0	0	0	19	217
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Jack Pine	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	24
Lowland Conifers	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	16
Lowland Deciduous	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	19
Lowland Shrub	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Marsh	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	0	0	0	0	0	0	0	17	21	0	0	0	0	0	247	285
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	46	0	0	0	0	46
Oak	0	0	0	51	0	0	0	0	14	289	12	102	0	0	325	793
Red Pine	0	0	0	0	0	0	122	0	0	0	0	0	0	0	0	122
Sand, Soil	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	42
Urban	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Water	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102
White Pine	0	0	0	0	0	0	46	0	0	0	0	0	0	0	0	46
Total	185	55	63	115	16	40	168	36	35	289	58	102	0	0	633	1795



Table 2 – Proposed Treatment Summaries

Data updated yesterday after 6:00 PM

Cadillac Mgt. Unit
Year of Entry 2012

Compartment 112
Total Compartment Acres: 1795

Acres by Treatment Type

Commercial Harvest - 906	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

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Jack Pine	24	0	0	0	0	0	24
Mixed Upland Deciduous	102	0	0	0	0	0	102
Northern Hardwood	0	46	0	0	0	0	46
Oak	102	187	0	0	236	0	525
Red Pine	50	0	0	0	71	0	122
Upland Mixed Forest	0	0	0	0	42	0	42
White Pine	42	0	0	0	4	0	46
Total	320	233	0	0	353	0	906

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Data updated yesterday after 6:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3 63112003-Cut	46.0	4119 - Mixed Northern Hardwoods	High Density Log	92	Harvest	Single Tree Selection	Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription</u> Thin hardwoods and oaks to 60-80 ba								
<u>Specs:</u>								
<u>Other Comments:</u>								
<u>Next Steps:</u>								
6 63112006-Cut	42.3	42100 - Planted White Pine	High Density Pole	51	Harvest	Clearcut	Planted White Pine	Cmpt. Review Proposal
<u>Prescription</u> Final Harvest. Trench and replant to red pine. May need to herbicide to diminish maple competition. Leave all oaks.								
<u>Specs:</u>								
<u>Other Comments:</u>								
<u>Next Steps:</u> trench and replant to red pine								
7 63112007-Cut	3.5	42100 - Planted White Pine	High Density Pole	51	Harvest	Low Thinning	Planted White Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin pine to 110-130ba								
<u>Specs:</u>								
<u>Other Comments:</u>								
<u>Next Steps:</u>								
8 63112008-Cut	23.6	42120 - Planted Jack Pine	High Density Pole	48	Harvest	Clearcut	Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Final harvest pine. Replant to red pine								
<u>Specs:</u>								
<u>Other Comments:</u>								
<u>Next Steps:</u> Replant to red pine								
13 63112013-Cut	50.4	42110 - Planted Red Pine	High Density Pole	52	Harvest	Clearcut	Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Final harvest and replant to red pine. Leave oak.								
<u>Specs:</u>								
<u>Other Comments:</u>								
<u>Next Steps:</u> trench and replant to red pine								
26 63112026-Cut	84.6	4199 - Other Mixed Upland Deciduous	High Density Log	88	Harvest	Patch or Strip Clearcut	Red with White Oak	Cmpt. Review Proposal
<u>Prescription</u> Patch clear cuts to release oak regen and encourage aspen. Treat approx 1/3 of stand. Target red oak due to oak wilt in area								
<u>Specs:</u>								
<u>Other Comments:</u> Retain trees along the snowmobile trail to maintain the integrity of the trail following the harvet.								
<u>Next Steps:</u>								

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Data updated yesterday after 6:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28 63112028-Cut	42.4	4310 - Pine, Oak Mix	High Density Pole	37	Harvest	Low Thinning	Planted Red Pine	Cmpt. Review Proposal

Prescription Thin pine to 90-110 ba. Remove red oak due to oak wilt in area
Specs:

Other
Comments:

Next
Steps:

33 63112033-Cut	126.5	4124 - Red with White Oak	High Density Log	88	Harvest	Systematic Thinning	Red with White Oak	Cmpt. Review Proposal - Incomplete
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Prescription Target red oak due to oak wilt in area. Mark 50 sqft total oak to leave. Target white oak to leave
Specs:

Other
Comments:

Next
Steps:

36 63112036-Cut	92.7	4123 - Red Oak	High Density Log	110	Harvest	Single Tree Selection	Red with White Oak	Cmpt. Review Proposal - Incomplete
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Prescription Remove all red oak due to oak wilt in area
Specs:

Other
Comments:

Next
Steps:

39 63112039-Cut	43.8	42110 - Planted Red Pine	High Density Pole	50	Harvest	Low Thinning	Planted Red Pine	Cmpt. Review Proposal
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Prescription Thin pine to a residual ba of 110-130. Remove all red oak due to oak wilt in area
Specs:

Other
Comments:

Next
Steps:

40 63112040-Cut	86.3	4123 - Red Oak	High Density Log	87	Harvest	Single Tree Selection	Red with White Oak	Cmpt. Review Proposal - Incomplete
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Prescription Remove all red oak due to oak wilt in area.
Specs:

Other
Comments:

Next
Steps:

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Data updated yesterday after 6:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
42 63112042-Cut	8.5	4124 - Red with White Oak	High Density Log	94	Harvest	Single Tree Selection	Red with White Oak	Cmpt. Review Proposal

Prescription Remove all red oak due to oak wilt in areaSpecs:OtherComments:NextSteps:

48 63112048-Cut	101.7	4124 - Red with White Oak	High Density Log	109	Harvest	Clearcut with Reserves	Red with White Oak	Cmpt. Review Proposal
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Prescription Remove all red oak due to oak wilt in area. Do not cut white oak, maple, or pine. Expand sale into stand 54 (Goose Lake SFCG)Specs:Other

Slae should be cut winter of 2010-2011 due to trenching efforts in the area.

Comments:NextSteps:

Plant red pine or white if necessary for campground maintaince.

50 63112050-Cut	16.9	4199 - Other Mixed Upland Deciduous	High Density Log	65	Harvest	Clearcut with Reserves	Aspen, Oak	Cmpt. Review Proposal
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Prescription Final harvest. Leave 20 sqft of oak for seed.Specs:OtherComments:NextSteps:

51 63112051-Cut	109.2	4124 - Red with White Oak	High Density Pole	89	Harvest	Crown Thinning	Red with White Oak	Cmpt. Review Proposal - Incomplete
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Prescription Remove all red oak due to oak wilt in area. Release oak regen. Final harvest areas of aspen to promote regen. Protect integrity ofSpecs: snopwmobile trail. Target a residual ba of 50 sqft of white oakOtherComments:NextSteps:

53 63112053-Cut	27.6	42110 - Planted Red Pine	High Density Pole	50	Harvest	Low Thinning	Planted Red Pine	Cmpt. Review Proposal
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Prescription Thin pine to 110-130 ba. Remove all red oak due to oak wilt in area. Leave maple and aspen.Specs:OtherComments:NextSteps:

**Total Treatment
Acreage Proposed: 906.0**

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Data updated yesterday after 6:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acres Proposed: 0

Data updated yesterday after 6:00 PM

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

Year of Entry: 2012



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

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Cadillac Mgt. Unit

5 – Forested Stands

Compartment: 112
Year of Entry: 2012

Data updated yesterday after 6:00 PM

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Sapling	4.5	8		
2	4199 - Other Mixed Upland Deciduous	High Density Log	21.1	76	111-140	Thin hardwoods
3	4119 - Mixed Northern Hardwoods	High Density Log	46.0	92	111-140	Thin
4	4199 - Other Mixed Upland Deciduous	High Density Log	32.8	Uneven Age	111-140	WAit for understory to mature before harvest
5	4130 - Aspen	High Density Sapling	2.2	7		
6	42100 - Planted White Pine	High Density Pole	42.3	51	141-170	thin pine. target white pine.
7	42100 - Planted White Pine	High Density Pole	3.5	51	111-140	
8	42120 - Planted Jack Pine	High Density Pole	23.6	48	81-110	
9	4124 - Red with White Oak	High Density Log	36.4	Uneven Age	51-80	multiple stemmed oaks with small diameter red maple and scattered beech
11	4130 - Aspen	High Density Sapling	18.6	Uneven Age	1-50	Stand was cut in 2008 due to wind damage. Produce never finished sale. Some aspen still standing. Allow too fall apart and existing regen to overtake.
12	4124 - Red with White Oak	High Density Pole	55.0	Uneven Age	51-80	
13	42110 - Planted Red Pine	High Density Pole	50.4	52	141-170	thin
14	4126 - White, Black, N. Pin Oak	High Density Log	14.2	74	51-80	
15	4130 - Aspen	High Density Sapling	34.1	8		
17	4130 - Aspen	High Density Pole	23.8	26	51-80	
18	4131 - Aspen, Oak	High Density Pole	40.3	28	1-50	
20	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	15.9	47	51-80	Buffer along Hopkins Creek
21	4124 - Red with White Oak	High Density Log	53.8	89	51-80	

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Cadillac Mgt. Unit

5 – Forested Stands

Compartment: 112
Year of Entry: 2012

Data updated yesterday after 6:00 PM

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4130 - Aspen	High Density Sapling	8.5	8		
24	4130 - Aspen	High Density Sapling	10.8	15		
25	4130 - Aspen	High Density Sapling	17.2	15		
26	4199 - Other Mixed Upland Deciduous	High Density Log	214.1	Uneven Age	51-80	Thin oak. Release regen
27	4129 - Mixed Oak	High Density Pole	55.1	Uneven Age	51-80	Slavage cut 15 yrs ago
28	4310 - Pine, Oak Mix	High Density Pole	42.4	Uneven Age	111-140	oaks along edge of m42 with underplanted red pine to north.
30	4130 - Aspen	High Density Sapling	16.9	14		
32	4130 - Aspen	High Density Sapling	3.0	7		Stand swapped from Non-Forested to Forested.
33	4124 - Red with White Oak	High Density Log	126.5	88	81-110	Similar to 55 but less aspen and more patchy.
36	4123 - Red Oak	High Density Log	92.7	Uneven Age	51-80	Treated last entry, removed red maple. understory thick to red maple and some BTA, minimal oak. Some high quality oaks in overstory.
37	4129 - Mixed Oak	High Density Sapling	50.6	24	1-50	
38	4130 - Aspen	High Density Sapling	3.0	7		young aspen bordering wet area and oak stand
39	42110 - Planted Red Pine	High Density Pole	43.8	50	141-170	Patchy, with pockes of oak and aspen. Thin pine leave oak and aspen
40	4123 - Red Oak	High Density Log	86.3	Uneven Age	81-110	oak stand was cut last entry heavy red maple regen. was scheduled for Rx burn, never completed. numerous small wet hols and a large dum hole near center of stand.
42	4124 - Red with White Oak	High Density Log	8.5	94	111-140	Remove red oak due to oak wilt concerns.
45	4124 - Red with White Oak	High Density Log	3.1	95		
46	4130 - Aspen	High Density Sapling	18.5	16		

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Cadillac Mgt. Unit

5 – Forested Stands

Compartment: 112
Year of Entry: 2012

Data updated yesterday after 6:00 PM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	4130 - Aspen	High Density Sapling	15.7	30	111-140	
48	4124 - Red with White Oak	High Density Log	101.7	109	81-110	less red maple regen throughout stand than stand to the north.
50	4199 - Other Mixed Upland Deciduous	High Density Log	16.9	65	81-110	Final harvest. Leave 30 sqft of oak. Should regenerate to aspen
51	4124 - Red with White Oak	High Density Pole	109.2	89	81-110	many multiple stemmed oaks and maple with scattered clones of aspen.
52	6119 - Mixed Lowland Deciduous Forest	High Density Pole	19.2	65		WET!!
53	42110 - Planted Red Pine	High Density Pole	27.6	50	141-170	Thin red pine, leave oak and maple



Stand	Cover Type	Acres	Gen Cmts:
10	710 - Sand, Soil	8.4	Gravel Pit
16	122 - Road/Parking Lot	0.7	Road into Missaukee Mtn.
19	623 - Emergent Wetland	7.2	
23	3102 - Grass	4.2	ROW for M-66
29	122 - Road/Parking Lot	13.0	M-42
31	122 - Road/Parking Lot	11.6	M-66/Morey Rd
34	6229 - Mixed lowland shrub	9.3	Stand swapped from Forested to Non-Forested.
35	6229 - Mixed lowland shrub	1.3	small wet area in oak stand
41	50 - Water	6.1	
43	122 - Road/Parking Lot	5.1	Al Moses Rd.
44	50 - Water	41.5	Long Lake (Missaukee)
49	6220 - Alder/willow	5.5	
54	11 - Low Intensity Urban	14.9	Goose Lake SFCG
55	50 - Water	54.4	Goose Lk.
56	122 - Road/Parking Lot	1.6	M-66/Morey Rd.



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.

Data updated yesterday after 6:00 PM

Stand	SCA Type	SCA Name	Acres	Comments



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.

Data updated yesterday after 6:00 PM

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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.