



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 114

Entry Year 2015

Acreage: 2,125

County Missaukee

Management Area: Upper Muskegon

Revision Date: 04/23/2013

Stand Examiner: Joe Ventimiglia

Legal Description:

T23N, R6W Sec. 7 T23N, R7W, Sec. 1-3, 10-15

Identified Planning Goals:

Forest Management with focus on multiuse objectives of timber, wildlife and ecological concerns. Management will follow practiced silvicultural guidelines and management plan guidelines.

Soil and topography:

Rubicon Sand, Graycalm-Rubicon Sand, Roscommon Mucky Sand, and Tawas Mucky Peat. Flat to rolling topography, occasional short steep slopes.

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

This compartment is located 10 miles north of Lake City in Forest Township. In section 2, at the intersection of Cutcheon and Edwards roads, there was the town of Cutcheon. It had a post office (est. 1890) and had a population of more than 100. The post office was last listed in 1927.

This compartment has a mix of state and private lands. The compartment is dispersed throughout 10 sections with some isolated parcels.

Unique Natural Features:

Section 15 has a drainage that is a tributary to the West Branch of the Muskegon River. The West Branch of the Muskegon also briefly enters the southwest of section 13. Natural Features Inventory lists the potential for great blue heron rookery, eagle, and osprey.

Archeological, Historical, and Cultural Features:

None listed on the Archeological Site listing.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

The West Branch Muskegon River flows through a small portion of the southern part of Compartment 114. The West Branch is a Designated Trout Stream with self-sustaining populations of resident brook and brown trout. (R. O'Neal, 8/24/2013).

Wildlife Habitat Considerations:

This compartment falls within the Highplains Ecosystem. Most of the compartment is within the Grayling Outwash Plain Subsection, LTA 1111, 2111, and 5549. About a third of the compartment, a western portion, falls within the Cadillac Subsection, LTA 1111. Within the Grayling Subsection, soils are deep, excessively drained. Historically, species composition was highly variable with conifer forests predominating in LTA 1111, and northern hardwood forests in LTA 2111. In LTA 5549, soils are primarily poorly drained peak and mucks but include some better drained alluvial soils. In the Cadillac Subsection, LTA 1111, soils, while variable, are usually sandy, excessively drained, and low to moderate in fertility. Historically, northern hardwood forests predominated with some areas of white pine/beech/red maple, or beech/hemlock. Wildlife habitat objectives for this compartment are to continue to manage for high structural diversity with stands and age class diversity across the compartment. Featured species of special interest are deer, woodcock, ruffed grouse, and snowshoe hare. (E. Victory, 8/21/13)

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till and ice-contact and glacial outwash sand and gravel and postglacial alluvium. Glacial drift thickness varies between 400 and 600 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 several miles away, but gravel potential is considered good. The compartment is located seven

miles north of Falmouth Field. The field has produced from the Stray Sandstone, Dundee, Richfield and Prairie du Chien. There are no State leases currently, but State land to the northeast is leased. (Tom Hoane, 3/6/2013).

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for closure. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

Survey Needs:

Many new corners were surveyed for the last year of entry. Present surveys are adequate for land management needs

Recreational Facilities and Opportunities:

There are no developed recreation facilities or trails within the compartment. The fragmented ownership within the boundaries of the compartment does not make development of any future trails feasible. Access to the West Branch of the Muskegon River is difficult from within the compartment and likely sees little use. Hunting is popular in this area with the proximity to the deer yard and adjacent agricultural lands.

Fire Protection:

The scattered state ownership intermixed with small and large private tracts of land and a public road system provide good access for fire apparatus. Many private values are at risk for wildland fire and exhibit a high potential for human caused ignitions. Fuel types within the compartment can produce rapid spread rates on Very High and Extreme fire days. (B. Tower, 2013).

Additional Compartment Information:

The following reports from the Inventory are attached:

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

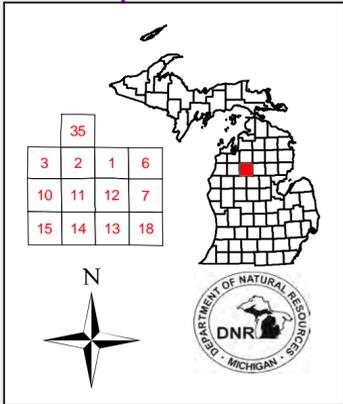
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatment Map

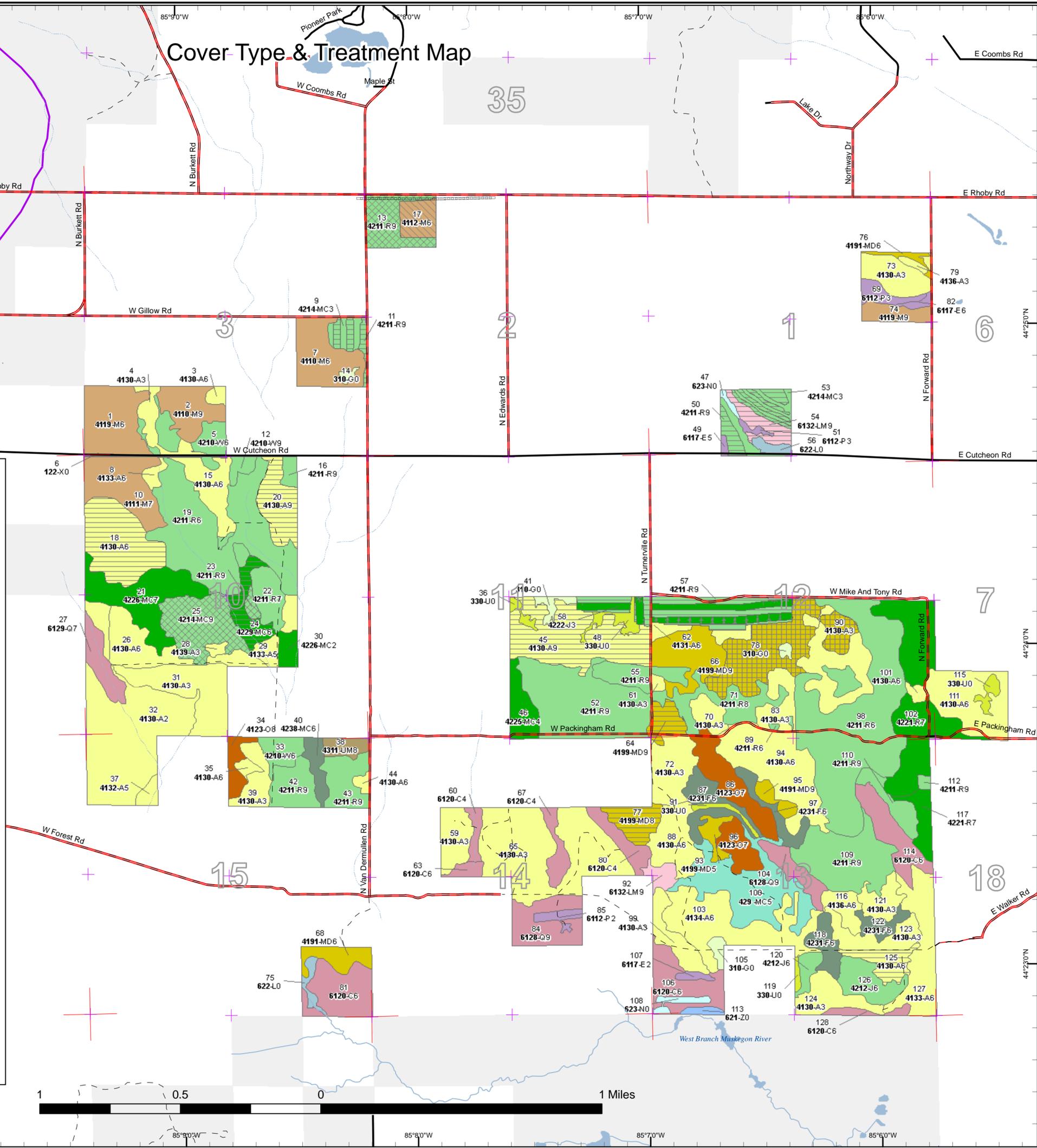
Compartment: 114
 T23N R06W
 06 07 18
 T23N R07W
 01 02 03 10 11 12 13 14 15
 T24N R07W
 35
 County: Missaukee
 Unit: Cadillac
 YOY: 2015
 Acres: 2,125 GIS Calculated
 Examiner: Joe Ventimiglia
 Map Revised: 10/04/2013
 Map Phase: Pre-Review

Stand # 23
 Stacking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

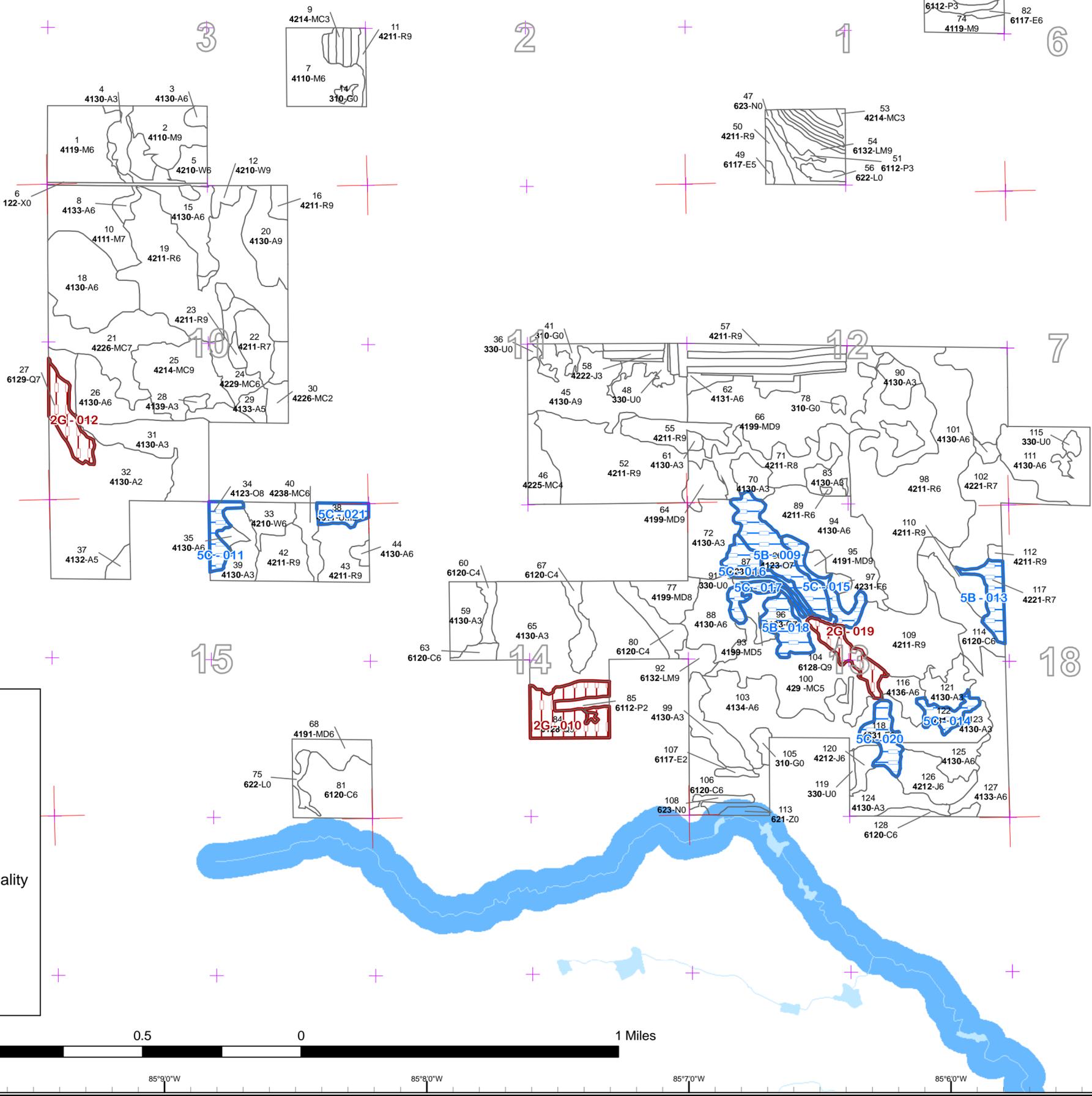
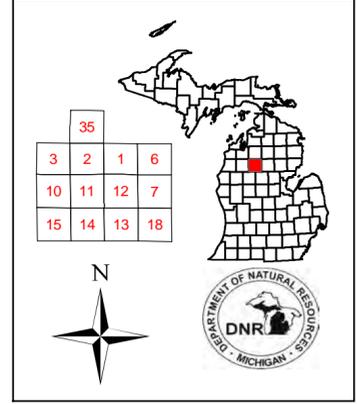
- Miris Corners
 - + Remonumented Section Corners
 - Highway
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Trail (Non-Recreation)
 - Closed Roads
 - Stream
 - Intermittent Stream
 - Lakes and Rivers
 - State Forest Land
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
 - Seed Tree (w/Reserves)
 - Selection (Group, Single Tree)
 - Other Harvest - See Comments
 - Planting (tree species)
- 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
 - 429 - Mixed Upland Conifers
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3**
- 122 - Road/Parking Lot
 - 310 - Herbaceous Openland
 - 330 - Low-Density Trees
 - 621 - Floating Aquatic
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland



Special Conservation Areas & Site Conditions Map

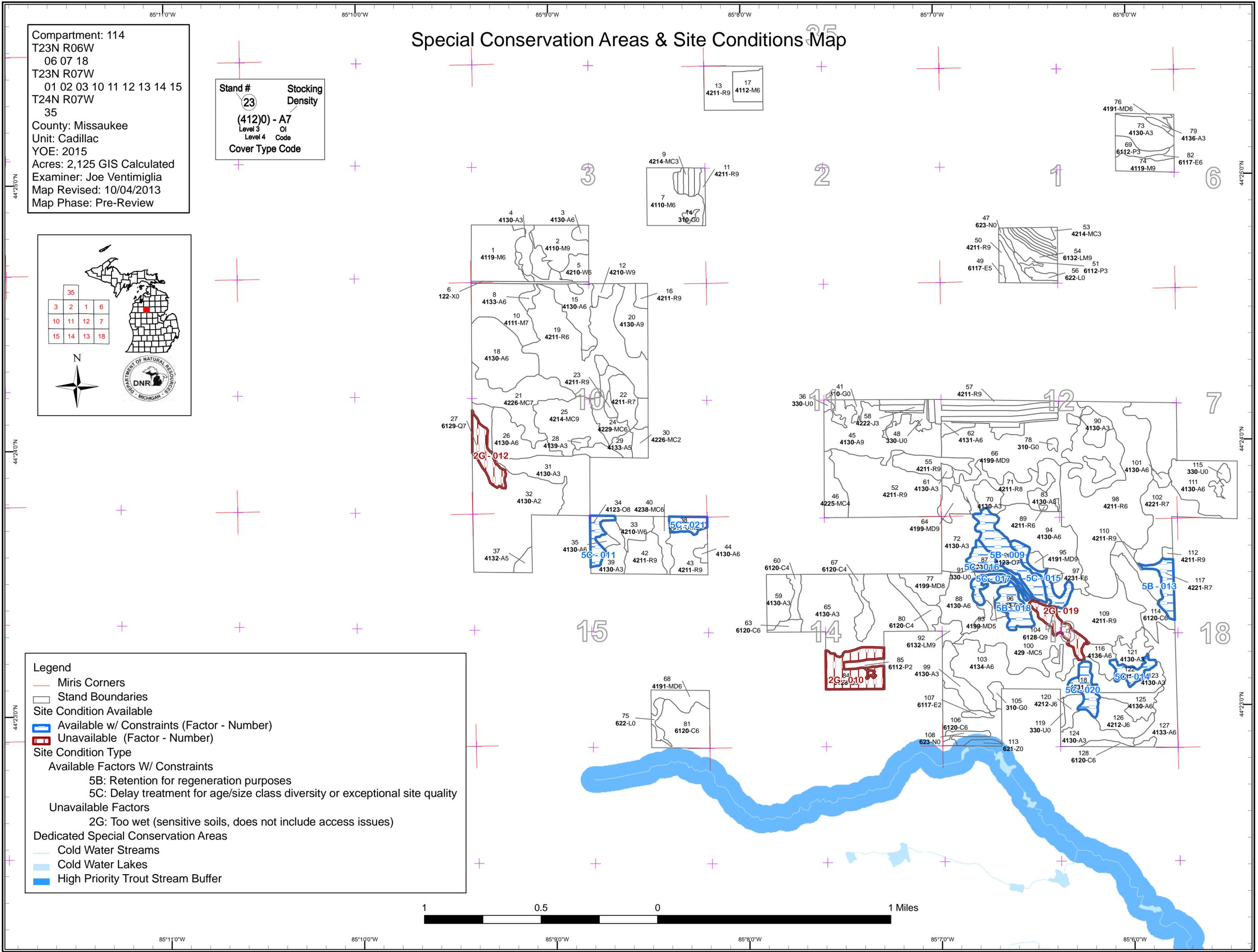
Compartment: 114
 T23N R06W
 06 07 18
 T23N R07W
 01 02 03 10 11 12 13 14 15
 T24N R07W
 35
 County: Missaukee
 Unit: Cadillac
 YOY: 2015
 Acres: 2,125 GIS Calculated
 Examiner: Joe Ventimiglia
 Map Revised: 10/04/2013
 Map Phase: Pre-Review

Stand # Stacking
 Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- Miris Corners
- Stand Boundaries
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Site Condition Type
- Available Factors W/ Constraints
 - 5B: Retention for regeneration purposes
 - 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
 - 2G: Too wet (sensitive soils, does not include access issues)
- Dedicated Special Conservation Areas
 - Cold Water Streams
 - Cold Water Lakes
 - High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Compartment 114 Year of Entry 2015

Joe VENTIMIGLIA : Examiner



	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	90	290	136	14	118	130	0	0	0	0	0	0	0	0	777
Cedar	0	0	0	0	0	0	0	0	0	0	24	75	0	0	99
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Jack Pine	19	0	0	0	0	21	0	0	0	0	0	0	0	0	41
Low-Density Trees	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Aspen/Balsam Poplar	4	8	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	13	34	0	0	47
Lowland Deciduous	2	0	0	1	0	0	2	0	0	0	0	0	0	0	5
Lowland Mixed Forest	0	0	0	0	0	0	0	0	9	0	0	5	0	0	15
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	0	0	6	11	9	0	16	81	0	0	0	0	123
Natural Mixed Pines	6	0	0	0	13	0	13	36	0	0	0	0	0	0	68
Northern Hardwood	0	0	0	0	0	0	0	30	81	20	0	0	0	0	131
Oak	0	0	0	0	0	0	0	0	0	42	0	0	0	0	42
Planted Mixed Pines	0	14	0	0	0	33	0	0	0	0	0	0	0	0	47
Red Pine	0	0	0	0	0	280	188	62	13	0	0	0	0	0	544
Upland Conifers	0	0	0	0	0	47	0	0	0	0	0	8	0	0	55
Upland Mixed Forest	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Upland Spruce/Fir	0	0	0	0	0	42	0	0	0	0	0	0	0	0	42
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	24	0	4	0	0	0	0	0	0	0	28
Total	162	312	136	15	162	564	223	128	119	143	37	122	0	0	2125



Report 2 – Proposed Treatment Summaries

Cadillac Mgt. Unit
Year of Entry 2015

Compartment 114
Total Compartment Acres: 2,125

Acres by Treatment Type

Commercial Harvest - 329 Tree Planting - 61 Other - 0
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types		127	0	0	0	0	0	127
Lowland Mixed Forest		9	0	0	0	0	0	9
Mixed Upland Deciduous		22	0	50	0	0	0	72
Natural Pines		13	0	0	0	0	0	13
Northern Hardwood		0	0	0	0	11	0	11
Planted Pines		42	55	0	0	0	0	97
Total		213	55	50	0	0	11	329



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
11	63114011-Cut	6.1	42110 - Planted Red Pine	High Density Log	61	81-110	Harvest	Clearcut	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Final Harvest with no retention. Site will be planted back to red pine. Make sure stand is chipped.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Plant red pine and site prep per TMS specs if needed.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
13	63114013-Cut	19.7	42110 - Planted Red Pine	High Density Log	62	81-110	Harvest	Single Tree Selection	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin again to promote poles down the road. This will likely be last thinning before final harvest and plant. Leave quality trees behind and at										
<u>Specs:</u> enough spacing to prevent windthrow.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
17	63114017-Cut	11.1	4112 - Maple, Beech, Cherry Association	High Density Pole	85	81-110	Harvest	Other - Specify in Comments	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<u>Prescription</u> Salvage cut of beech along with thinning remaining low quality hardwood. Spec beech and mark rest. Leave a few green ringed beech as wildlife										
<u>Specs:</u> tree.										
<u>Other</u> Enough beech to consider salvage alone of beech.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
18	63114018-Cut	40.3	4130 - Aspen	High Density Pole	53		Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Final Harvest. Leave all Oak, Red Pine, and Cedar.										
<u>Specs:</u>										
<u>Other</u> Apply Grouse Spec.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
20	63114020-Cut	20.2	4130 - Aspen	High Density Log	53		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest.. Apply retention guidelines at foresters descretion. Leave scattered pines.Exclude younger pole aspen directly touching road.										
<u>Specs:</u>										
<u>Other</u> Manage for aspen dominated mix. Apply Grouse Spec.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23	63114023-Cut	2.4	42110 - Planted Red Pine	High Density Log	74	81-110	Harvest	Single Tree Selection	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin small piece of red pine. Remove cull and lower quality stems. Will have to be lumped into adjacent stand as too small to sell on its own.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
24	63114024-Cut	13.4	42290 - Natural Mixed Pine	High Density Pole	48	1-50	Harvest	Clearcut with Reserves	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Final harvest leave all oak and red pine for diversity/retention/seed source..										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
25	63114025-Cut	33.1	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Log	51	81-110	Harvest	Single Tree Selection	42141 - Planted Mixed Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Cut all aspen and maple and thin pine. Mark poor quality and make enough space for equipment. Not a regeneration harvest objective.										
<u>Specs:</u>										
<u>Other</u> Improve spacing on best quality pine and create understory of aspen- maple -pine.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
45	63114045-Cut	54.8	4130 - Aspen	High Density Log	55		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest leave all pine and oak as retention.										
<u>Specs:</u>										
<u>Other</u> Good access and level terrain. Apply Grouse Spec.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
50	63114050-Cut	12.3	42110 - Planted Red Pine	High Density Log	62	81-110	Harvest	Clearcut	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Final harvest with no retention stand will be planted back to red pine. Chipping required.

Specs:

Other Trying to get away from strip plantations.

Comments:

Next Apply site prep at TMS specs if needed and replant red pine.

Steps:

Proposed

Start Date: 10/01/2014

54	63114054-Cut	9.3	6132 - Mixed Lowland Forest with Cedar	High Density Log	86	1-50	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
----	--------------	-----	--	---------------------	----	------	---------	---------------------------	--	--------------------------

Prescription Final harvest, leave all cedar and scattered white pine.

Specs:

Other Interest in stand stems from lowland project. Winter or dry condition harvest. Treatment boundary will exclude cedar/spruce strip to south. (This
Comments: will be the retention) May be too small to do commercially on its own?

Next

Steps:

Proposed

Start Date: 10/01/2014

57	63114057-Cut	23.5	42110 - Planted Red Pine	High Density Log	62	81-110	Harvest	Clearcut	42110 - Planted Red Pine	Cmpt. Review Proposal
----	--------------	------	-----------------------------	---------------------	----	--------	---------	----------	-----------------------------	--------------------------

Prescription Final Harvest no retention as site will be replanted. Require tops to be chipped.

Specs:

Other Eliminate strip plantation and replant with old jack pine strips. Trying to get even age going again of red pine. make sure adjacent jack pine strips
Comments: are not planted until red pine is cut.

Next Plant red pine and site prep per TMS specs if needed.

Steps:

Proposed

Start Date: 10/01/2014

64	63114064-Cut	9.2	4199 - Other Mixed Upland Deciduous	High Density Log	62	51-80	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
----	--------------	-----	--	---------------------	----	-------	---------	---------------------------	----------------------------------	--------------------------

Prescription Final harvest. Leave all red pine.

Specs:

Other Manage for aspen mix. Salvage beech while still sound. Apply Grouse Spec.

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2014

66	63114066-Cut	50.3	4199 - Other Mixed Upland Deciduous	High Density Log	95	51-80	Harvest	Seed Tree	4116 - Mixed N. Hardwood - Aspen	Cmpt. Review Proposal
----	--------------	------	--	---------------------	----	-------	---------	-----------	-------------------------------------	--------------------------

Prescription Seed Tree. Leave all Oak and green ring quality hard maple where present as seed source. Also green ring a few beech as future snags/
Specs: diversity. Follow Treatment boundary excluding western portion.

Other Seed Tree in effort to fight beech regeneration. Aggressive treatment as a result of amount of Beech. Hardwood too sparse and of too low
Comments: quality to continue managing as northern hardwood. Treatment boundary will exclude oak to west. Apply Grouse Spec.

Next

Steps:

Proposed

Start Date: 10/01/2014



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
77	63114077-Cut	12.6	4199 - Other Mixed Upland Deciduous	Medium Density Log	86	1-50	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Final harvest aspen and red maple, mark to cut oaks. Leave higher quality oak as seed source. Continue to manage for oak aspen mix.										
<u>Specs:</u>										
<u>Other</u> Northeast survey corner is in. (Blue carsinite) Access is from the east. Apply Grouse Spec.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
125	63114125-Cut	11.3	4130 - Aspen	High Density Pole	51		Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
<u>Prescription</u> Final Harvest. Leave scattered white pine. Manage for aspen dominated mix.										
<u>Specs:</u>										
<u>Other</u> Apply Grouse Spec. Lump in with other stands.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
58	63114058- Plant	19.4	42220 - Natural Jack Pine	High Density Sapling	7		Tree Planting	Hand Plant	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Replant to red when adjacent red pine is final harvested. Use silviculturalist recommended methods for site prep. Plant as strait as possible and at										
<u>Specs:</u> desired spacing for maximum growth.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 05/01/2015										
Total Treatment Acreage Proposed:		348.9								



S
t
a
n
d

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

#Type! #Type!

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

Total Treatment
Acreage Proposed: 0.0

Report 5 – Site Conditions

Cadillac Mgt. Unit

Compartment 114

Joe Ventimiglia : Examiner

Year of Entry 2015

Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5C	5B	2G
	Available	Not Available					
775	775		Aspen	735	40		
100	100		Cedar	100			
41	41		Jack Pine	41			
12	12		Lowland Aspen/Balsam Poplar	12			
47		47	Lowland Conifers				47
5	5		Lowland Deciduous	5			
15	15		Lowland Mixed Forest	15			
123	123		Mixed Upland Deciduous	123			
68	68		Natural Mixed Pines	68			
131	131		Northern Hardwood	131			
42	42		Oak		8	35	
47	47		Planted Mixed Pines	47			
539	539		Red Pine	530		10	
55	55		Upland Conifers	55			
7	7		Upland Mixed Forest		7		
42	42		Upland Spruce/Fir		42		
28	28		White Pine	28			
2,077	2,030	47	Total Forested Acres	1,889	96	45	47
	98%	2%	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
009	Available	5B: Retention for regeneration purposes	23				
Comments:							

Report 5 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment 114
Year of Entry 2015

010	Not Available	2G: Too wet (sensitive soils, does not include access issues)	23	5A: Not able to obtain desirable regeneration	3H: Deer Wintering Areas
Comments:					
011	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8		
Comments:					
012	Not Available	2G: Too wet (sensitive soils, does not include access issues)	13	5C: Delay treatment for age/size class diversity or exceptional site quality	
Comments:					
013	Available	5B: Retention for regeneration purposes	10	5C: Delay treatment for age/size class diversity or exceptional site quality	
Comments:					
014	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7		
Comments:					

Report 5 – Site Conditions

Cadillac Mgt. Unit
 Joe Ventimiglia : Examiner

Compartment 114
 Year of Entry 2015

015	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	
Comments:				
016	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	
Comments:				
017	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	
Comments:				
018	Available	5B: Retention for regeneration purposes	12	
Comments:				
019	Not Available	2G: Too wet (sensitive soils, does not include access issues)	11	5A: Not able to obtain desirable regeneration
Comments:				
020	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	
Comments:				

Report 5 – Site Conditions

Cadillac Mgt. Unit

Compartment 114

Joe Ventimiglia : Examiner

Year of Entry 2015

021	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7
-----	-----------	--	---

Comments:



Report 6 – 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
Comments				



Report 7 – 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	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.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4119 - Mixed Northern Hardwoods	High Density Pole	32.1	87	51-80	Lower quality hardwood with heavy understory of beech from last harvest. Hardwood was thinned in winter of 2009. Sale was chipped. Aspen filling in more open pockets following harvest. Rolling terrain.
2	4110 - Sugar Maple Association	High Density Log	19.7	93	51-80	Hardwood was thinned in winter of 2009. All white pine and aspen was also cut in this stand. Sale was chipped. Good quality hardwood. Mostly logs. In far eastern edge of stand there is a 3 acre inclusion of A3 with some scattered canopy hardwood. Was part of same hardwood thinning but was heavy to aspen. (Too small to map on its own)
3	4130 - Aspen	High Density Pole	2.6	34		Cut in 1979 with handsaws and axes by "Camp Nokomis Boys Crew" Small stand of pole aspen, with a little beech mixed in. Private line to east is in.
4	4130 - Aspen	High Density Sapling	9.5	13		Stand was final harvested in spring of 2000. Aspen has come back well, currently 20 to 30 feet tall. Small strip of mature aspen left along cutchen road.
5	42100 - Planted White Pine	High Density Pole	15.0	40	81-110	Planted pole size white pine. Variable row orientation, very difficult to see rows. Some hardwood mixed in. [mostly beech] Small less than 1 acre pocket of solid hardwood in far southeast corner of stand. Too small to map.
7	4110 - Sugar Maple Association	High Density Pole	28.3	89	51-80	Hardwood was thinned in winter of 2009. Sale was chipped. Medium quality hardwood. Mostly sugar maple. Beech and ironwood understory. Mostly pole size although getting close to log stand. Stand more open in far southeast corner.
8	4133 - Aspen, Mixed Pine	High Density Pole	3.2	55		Small stand of mature aspen and scattered pole/log white pine.
9	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Sapling	4.2	16		Jack Pine strips which were final harvested in 1997. Stand was replanted to red pine, although jack pine, red maple, and oak are competing. Will be a mixed pine dominated stand. Currently jack pine overtopping planted red in pockets.
10	4111 - S. Maple, Hard Mast Association	Low Density Log	30.1	75	1-50	Stand was harvested in 2007. (Chipping operation) Scattered hardwood makes up the overstory while aspen has regenerated well from the aggressive harvest. Overstory hardwood almost not enough to even consider as primary species. Average of 10 to 40 BA of Hardwood left)
11	42110 - Planted Red Pine	High Density Log	6.1	61	81-110	Pine was marked thinning harvest back in 2006. Mature red pine remaining from red/jack pine strip plantation. Far east strip is more open than rest of strips. (Hardwood saps filling in understory of this strip) Pine has been thinned 3 times.
12	42101 - Planted White Pine, Mixed Deciduous	High Density Log	4.0	63	51-80	Marked white pine thinning in 2008. Was lumped in with adjacent small red pine units. Appears natural white pine. Mix of diameters. Far western portion of stand contains mature aspen which was left out of adjacent aspen final harvest.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	42110 - Planted Red Pine	High Density Log	19.7	62	81-110	Good quality planted red pine. Pine was marked thinning harvest back in 2006. Stand was thinned before back in 1996 and third row thinned back in 1986 as well. Telephone pole line crosses through stand in north end.
15	4130 - Aspen	High Density Pole	18.0	26		Stand was final harvested in 1986. Mix of quaking and bigtooth. Very small pole sized stand. Some seasonal wet drainages in stand. A few log white pine scattered in north. Small buffer of more mature aspen was left by the road.
16	42110 - Planted Red Pine	High Density Log	4.9	65	51-80	Small stand of log red pine with some scattered log white pine as well. Both small units were marked thinnings completed in 2008.
17	4112 - Maple, Beech, Cherry Association	High Density Pole	11.1	85	81-110	Medium quality pole approaching log sized hardwood. Stand was thinned two YOE ago. Heavy beech/cherry component. No BBD evidence yet. Couple legacy pine in west end.
18	4130 - Aspen	High Density Pole	40.3	53		Pole aspen dominated stand with mix of hardwood and mixed pine. Variable size classes. Small cedar pocket in eastern portion of stand. Some log sized aspen scattered around.
19	42110 - Planted Red Pine	High Density Pole	85.5	51	81-110	Red Pine was third row thinned back in 2007, all aspen and red maple was cut in designated rows for access. (Irregular rows) Medium quality little on the short side.
20	4130 - Aspen	High Density Log	20.2	53		Log-pole mix of quaking and bigtooth. Small opening in western border of stand. (old landing) Private to western border. Hardwood component mixed in.
21	42260 - Natural Pine, Mixed Deciduous	Low Density Log	36.1	79	1-50	Stand was marked to cut harvested back in 2007. Mature red and white pine were left, along with oak and paper birch. Tops were chipped. Pine is concentrated in pockets of stand, with aspen whips filling in the more open pockets.
22	42110 - Planted Red Pine	Low Density Log	16.1	65	1-50	Stand was harvested back in 2007. Was a marked seed tree cut with all red maple, aspen, fir, and beech being cut as well. Tops were chipped. Scattered log red pine in overstory with a mix of mostly aspen regenerating.
23	42110 - Planted Red Pine	High Density Log	2.4	74	81-110	Small isolated pocket of mature log red pine. Appears natural although likely planted.
24	42290 - Natural Mixed Pine	High Density Pole	13.4	48	1-50	Jack pine with a mix of oak, red maple, aspen, and scattered red pine mixed in from adjacent planted pine. A decent mix although jack pine is dominant species. Variable diameters.
25	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Log	33.1	51	81-110	Mix of white and red pine, with scattered aspen component. Variable diameters from Log to sapling pine. A few legacy pine as well.
26	4130 - Aspen	High Density Pole	26.3	25		Stand was final harvested in 1987. Mix aspen regenerated well, with a small mix of pine, oak, and fir scattered around.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	6129 - Mixed Coniferous Lowland Forest	Low Density Log	12.6	109	1-50	Portions of stand was cut in 1999 along with surrounding aspen, with all hemlock and cedar left. Aspen, red maple primary filling up the understory. Hemlock appears healthy. Stand gets wetter to north.
28	4139 - Aspen, Mixed Deciduous	High Density Sapling	1.9	5		Final harvested in 2008. Aspen and red maple regenerated. Scattered white pine and oak left in overstory.
29	4133 - Aspen, Mixed Pine	Medium Density Pole	9.2	31		Semi opening low quality aspen, mixed pine stand. Variable stunted looking timber. Variable aspen with scattered red and white pine.
30	42260 - Natural Pine, Mixed Deciduous	Medium Density	5.7	5		Stand was harvested in 2008. Small patch of mature red pine left in eastern portion. Jack pine, aspen, red maple starting to fill in. (Regen 2 to 4 feet tall) Will be semi open stand.
31	4130 - Aspen	High Density Sapling	34.1	16		Stand was final harvested in 1997. Aspen came back well. A few oaks were left.
32	4130 - Aspen	Medium Density	83.5	14		Stand was final harvested in 1999. All cedar, hemlock and oak were left. Aspen has come back good. Scattered ridges of log oak were left along with scattered hemlock. More open in pockets where old landings were. Large stand, with some lowland character in pockets.
33	42101 - Planted White Pine, Mixed Deciduous	High Density Pole	9.3	42	81-110	Dense white pine plantation; with a mix of aspen and a few red pine. Small pole size timber.
34	4123 - Red Oak	Medium Density Log	7.5	95	1-50	Small stand of log oaks and scattered red maple and aspen. Very open stand. Scattered pine as well.
35	4130 - Aspen	High Density Pole	2.4	26		Small pocket of small pole aspen. Was final harvested in 1986.
37	4132 - Aspen, Jack Pine	Medium Density Pole	3.8	45		Small stand of pole-log aspen, red maple and a few pine. Open grown poor quality stand.
38	4311 - Pine, Aspen Mix	Medium Density Log	6.5	61	1-50	Mixed log/ pole pine with scattered oak, aspen and red maple pole size timber. Semi open stand. Mostly red pine. Was planted at one point but appears natural at this point.
39	4130 - Aspen	High Density Sapling	12.3	16		Stand was final harvested in 1997. Regenerated well back to aspen.
40	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	7.9	110		More upland mix of cedar, aspen, maple, balsam and paper birch. Scattered legacy pine. Some lowland character, but mostly higher ground.
42	42110 - Planted Red Pine	High Density Log	15.7	61	51-80	Stand was marked thinning done in 2007. All aspen, red maple, balsam, and jack pine was cut. Over a truck load left at landing. Semi open in spots with aspen coming in understory. Variable diameters.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	42110 - Planted Red Pine	High Density Log	16.7	61	81-110	Stand was marked thinning done in 2007. All aspen, red maple, balsam, and jack pine was cut. Variable diameters red pine, with scattered white pine. Logger missed trees to cut in 2007. Higher BA then red pine stand to west.
44	4130 - Aspen	High Density Pole	2.1	31		Small stand of aspen mixed with red maple and a few scattered pine.
45	4130 - Aspen	High Density Log	54.8	55		Variable Log aspen stand with mix of of hardwood and scattered pine. Mix of of logs and pole size. Variable age aspen.
46	42250 - Pine, Oak	Low Density Pole	13.0	61	1-50	Stand was harvested in 1997. All oak and pine was left. Two aged stand of mixed pine over sapling aspen. Variable size classes throughout. Close to considering aspen primary species and calling it a sapling stand.
49	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	1.1	35		Small strip of red maple and aspen , with scattered cedar and balsam.
50	42110 - Planted Red Pine	High Density Log	12.3	62	81-110	Stand was marked red pine thinning back in 2007. Good quality pine. Strips adjacent planted with jack pine, with the jack pine being final harvested already.
51	6112 - Lowland Aspen	High Density Sapling	1.6	12		Habitat cut in 2001 (Hand Cut). Covertypes objective of cut was Aspen. Came back thick with aspen and red maple, some balsam as well. Scattered pole cedar left.
52	42110 - Planted Red Pine	High Density Log	63.4	52	51-80	Stand was thinned in 2009, with all aspen, jack pine and maple also being cut. Variable red pine with a mix of diameters. Some white pine mixed in.
53	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Sapling	9.8	16		Jack Pine strips which were final harvested in 1997. Majority of strips were planted to red pine although jack pine and hardwood voluntarily seeded in as well. Red pine being out competed in spots. Portions which were not planted came to aspen and maple. Far northeast portion of stand is a small mature hardwood stand too small to map.
54	6132 - Mixed Lowland Forest with Cedar	High Density Log	9.3	86	1-50	Lowland hardwood logs sized stand. Mostly maple and yellow birch. Southern strip of stand in almost pure cedar and spruce. Low wet hummucky ground.
55	42110 - Planted Red Pine	High Density Log	14.1	52	51-80	Stand was thinned in 2009, with all aspen, jack pine and maple also being cut. Stand was thinned previously in 1996 as well. Good quality planted pine. Thick red maple and beech understory.
57	42110 - Planted Red Pine	High Density Log	23.5	62	81-110	Red pine strips were thinned in 2006. Stand was thinned prior to that in 1996. Good quality pine.
58	42220 - Natural Jack Pine	High Density Sapling	19.4	7		Jack Pine strips final harvested in 2006. Jack pine and a mix of red maple, cherry and beech has filled in following harvest.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
59	4130 - Aspen	High Density Sapling	14.5	16		Stand was final harvested in 1997. Upland stand with a little lowland character in eastern border of stand. Borders cedar and private on all sides. Access was through cedar stand. Aspen has come back strong with a minor mix of other species.
60	6120 - Lowland Cedar	Low Density Pole	4.7	110		Stand was final harvested in 1997, with all cedar being left. Cedar overstory with aspen, red maple and balsam fir in the understory. Cedar blowdown in pockets throughout.
61	4130 - Aspen	High Density Sapling	1.7	7		Stand was final harvested in 2006 all oak was left. Aspen has come back thick.
62	4131 - Aspen, Oak	High Density Pole	8.2	26		Three small separate units which were final harvested in 1986. All oak was left. Regenerated well to aspen and red maple. Scattered log oaks.
63	6120 - Lowland Cedar	High Density Pole	3.7	110	81-110	Small cedar stand with mix of balsam, aspen and red maple. No understory and not managed by adjacent harvest. Private to south.
64	4199 - Other Mixed Upland Deciduous	High Density Log	9.2	62	51-80	Mixed maple beech hardwood with significant aspen component. Quite a bit of beech.
65	4130 - Aspen	High Density Sapling	78.4	16		Stand was final harvested in 1997. Regenerated to mostly aspen, old skid roads throughout. A few log oaks left in stand. Lowland character around border of stand as in heads down to the cedar stands surrounding.
66	4199 - Other Mixed Upland Deciduous	High Density Log	76.0	95	51-80	Stand was marked thinning cut in 2006. All aspen, ironwood and beech under 8 inches in diameter was also cut. Oak stand with hardwood component throughout. Thick beech regen throughout. Significant beech component. Oak more concentrated in west end. Amount of beech looks to warrant salvage sale.
67	6120 - Lowland Cedar	Low Density Pole	8.7	110		Stand was final harvested in 1997, with all cedar being left. Cedar overstory with aspen, red maple and balsam fir in the understory. Cedar blowdown in pockets.
68	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	10.8	56		Good mix of aspen, fir, maple. Scattered red and white pine as well. Isolated 40 of compartment. Upland although hummucky ground. Some overmature aspen clones in stand.
69	6112 - Lowland Aspen	High Density Sapling	6.4	12		Habitat cut in 2001 (Hand Cut). Coverttype objective of cut was Aspen. Regenerated well to aspen dominated mix. Lowland site with scattered cedar left and lots of blowdown.
70	4130 - Aspen	High Density Sapling	8.3	7		Stand was final harvested in 2006 all oak was left. Aspen has sprouted back well. Widely scattered oak.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
71	42110 - Planted Red Pine	Medium Density Log	21.3	65	51-80	Stand was thinned in 2009, with all aspen, jack pine and maple also being cut. Red pine overstory appears natural but was planted. Aspen, beech and red maple regenerated from cut. Variable stange shaped stand.
72	4130 - Aspen	High Density Sapling	21.4	7		Stand was final harvested in 2006 all oak was left. Aspen has came back well. Widely scattered oak. Old landing in west border of stand.
73	4130 - Aspen	High Density Sapling	17.4	6		Stand was final harvested in 2007. Came back thick to aspen. Regen Twenty feet tall.
74	4119 - Mixed Northern Hardwoods	High Density Log	9.6	87	51-80	Stand was thinned in 1998. Good maple regenerated following last cut. Stand gets a little wet on north end. Decent amount of yellow birch.
76	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	3.0	87	51-80	Small upland hardwood with conifer component. Some nice hemlock scattered in stand.
77	4199 - Other Mixed Upland Deciduous	Medium Density Log	12.6	86	1-50	Oak - aspen semi open stand with some red maple. Poorer quality stems, open grown with limited regen.
79	4136 - Aspen, Mixed Conifer	High Density Sapling	1.7	12		Habitat cut in 2001 (Hand Cut). Coverttype objective of cut was Aspen. Regenerated to aspen, black ash and some fir. Lowland site. Scattered mature cedar in overstory.
80	6120 - Lowland Cedar	Low Density Pole	10.4	110		Stand was final harvested in 1997 with all cedar being left. Aspen saplings overtopped by cedar and some balsam left from harvest. Tag alder mixed in as well. Two aged stand.
81	6120 - Lowland Cedar	High Density Pole	25.8	110		Lowland cedar swamp, with thick balsam understory in pockets. Very good stand for thermal cover. Stand is more wet to south and west. Some cedar flooded out.
82	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	2.2	69		Lowland mix of ash, cedar, balsam. Variable size classes with some blowdown.
83	4130 - Aspen	High Density Sapling	13.4	7		Stand was final harvested in 2006 all oak was left. Aspen has come back well. Widely scattered oak.
84	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	22.8	110		Cedar stand with mix of balsam, aspen, red maple, paper birch. Scattered legacy pine. Variable size classes. Aspen concentrated in north. More upland character in north as well.
85	6112 - Lowland Aspen	Medium Density	4.1	5		Cedar stip cut in Jan of 2008. Cedar strip cut which came back to patchy aspen. Semi open in pockets. Will fill in with time.
86	4123 - Red Oak	Low Density Log	22.8	92	1-50	Oak was thinned in spring of 2007. All aspen and maple was also cut. Aspen and red maple are slowly filling in more open pockets. Low to medium quality oak. Little to no oak regen. Limited regen under oaks.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
87	42310 - Planted Spruce	High Density Pole	15.7	52		Densely planted pole spruce. Some red maple mixed in.
88	4130 - Aspen	High Density Pole	21.1	42		Aspen stand with a mix of red maple and oak. A little red pine and balsam fir mixed into the southern portion of stand. Pole oaks concentrated in northeast portions of stand. Couple legacy red pines in northeast too.
89	42110 - Planted Red Pine	High Density Pole	0.9	51	81-110	Two small islands of planted red pine.
90	4130 - Aspen	High Density Sapling	26.8	16		Stand was final harvested in 1997. A few oaks were left. Regenerated thick back to aspen.
92	6132 - Mixed Lowland Forest with Cedar	High Density Log	5.4	110		Small mixed lowland with cedar, hemlock, aspen, balsam, red maple and legacy white pine. Variable stand. Hummucky ground with a quite a bit of downed snags. CWD
93	4199 - Other Mixed Upland Deciduous	Medium Density Pole	5.9	40	1-50	Stand was cut in 1973. Small open mix of oak, cherry, red maple and scattered spruce. Mostly stump sprout origin.
94	4130 - Aspen	High Density Pole	47.4	25		Stand was final harvested in 1987 all oak was left. Mature log oak scattered in northwest portion of stand. Aspen almost still sapling size.
95	4191 - Mixed Upland Deciduous with Conifer	High Density Log	5.3	95	1-50	Scattered log oak stand with red maple. White Spruce of variable diameters throughout; mostly in understory.
96	4123 - Red Oak	Low Density Log	12.0	90	1-50	Stand was thinned in 2008 all aspen and maple were also cut. Log oak overstory a couple scattered red pines as well. Limited regen, some red maple stump sprouts. A couple white spruce scattered in northern portion of understory. Deer browse heavy.
97	42311 - Planted Spruce, Mixed Deciduous	High Density Pole	9.3	52		Densely planted pole spruce, with scattered oak and red maple mixed in. A few scattered red pine as well.
98	42110 - Planted Red Pine	High Density Pole	116.0	51	51-80	Stand was Third Row thinned in 2008. (All aspen was also cut in the designated rows) Decent quality plantation. Some aspen whips in open pockets of plantation otherwise limited understory.
99	4130 - Aspen	High Density Sapling	13.6	14		Stand was final harvested in 1999. Came back well with the exception of one low spot which is flooded. Some lowland character in stand. A few cedar and balsam were left in south end of stand.
100	429 - Mixed Upland Conifers	Medium Density Pole	47.0	51		Hodgepodge of aspen with planted white spruce competing for canopy space. Variable diameters, with mature red pine pockets scattered in as well. Aspen and spruce need time to mature.
101	4130 - Aspen	High Density Pole	2.6	45		Small pocket of mature aspen, which has been missed by all adjacent cuts. A little red and white pine scattered in.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
102	42210 - Natural Red Pine	Low Density Log	57.6	71	1-50	Stand was harvested over the course of two years in 1996 and 1997. (Southern half was cut first) All pine and some oak was left throughout stand. Currently log red and white pine overstory with good aspen regen throughout stand. Pine concentrated and not evenly distributed throughout stand. Variable diameters in pine. Some pockets of stand are solid aspen where very few pine were. Enough pine throughout to make up overstory.
103	4134 - Aspen, Spruce/Fir	High Density Pole	47.2	44		Pole aspen with significant mix of balsam fir. Balsam thicker in west end of stand. A few scattered cedar pockets are scattered in stand as well. Too small to map, although should be noted for future management. Variable diameters in pockets, with a few older clones in stand, although mostly uniform.
104	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	11.2	110		Lowland cedar, with mix of paper birch, balsam, red maple, hemlock, as well as scattered legacy pine. Hummocky ground with the cedar concentrated in the southern 3/4 of the stand. Northern tip of stand in more scattered pine and lowland hardwood.
106	6120 - Lowland Cedar	High Density Pole	21.6	110		Lower cedar complex with a mix of black ash, red maple, balsam, and aspen of various age classes. Overmature aspen scattered and falling apart. Less cedar to east end, more flooded out on this end. Pockets of lowland hardwood younger age class in stand as well.
107	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	2.1	7		Habitat strip cut done in 2006. (Final Harvest) Came back to mix of aspen, red maple and some balsam. A few cedar were left standing. Semi open from lower ground flooding. Very hummocky ground with a good amount of downed wood.
109	42110 - Planted Red Pine	High Density Log	41.6	65	51-80	Red Pine stand which as harvested in 2008 as part of a marked pine thinning. All aspen, birch, red maple, jack pine was also cut. Appears almost natural after cut. Scattered oak throughout as well.
110	42110 - Planted Red Pine	High Density Log	10.5	61	51-80	Plantation red pine which was thinned in 2008. Some variable diameters, with scattered legacy pine on the western edge of stand. Northwest portion is natural log pine, but majority is planted pine.
111	4130 - Aspen	High Density Pole	33.9	25		Stand was final harvested in 1987. Aspen came back well, almost still a sapling stand. Scattered pole white pine in stand.
112	42110 - Planted Red Pine	High Density Log	2.1	71	51-80	Small stand of red pine with scattered white pine. Portions were thinned with adjacent cut. Appears natural visually.
114	6120 - Lowland Cedar	High Density Pole	20.0	108	51-80	Lowland dense stand of cedar, with paper birch, red maple and scattered super canopy white pine. No understory. Some blowdown, but not much.
116	4136 - Aspen, Mixed Conifer	High Density Pole	8.8	42		Mixed stand of aspen, oak, balsam, red maple, with scattered pine. Variable stand. A few small hemlock too.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
117	42210 - Natural Red Pine	Low Density Log	13.5	89	1-50	Was harvested in 2008 as part of a marked pine thinning. All aspen, birch, red maple, jack pine was also cut. Currently scattered widely spaced log red pine overstory, with aspen and red maple filling in.
118	42310 - Planted Spruce	High Density Pole	10.4	52		Planted white spruce, dense plantation. No understory. Good thermal cover.
120	42120 - Planted Jack Pine	High Density Pole	5.3	52	51-80	Planted jack pine with minor mix of aspen. Very dense planting.
121	4130 - Aspen	High Density Sapling	10.4	7		Stand was final harvested in 2006 with all oak, cedar, hemlock, and red pine left. Aspen came back thick, widely scattered red pine and oak logs in overstory.
122	42311 - Planted Spruce, Mixed Deciduous	High Density Pole	7.0	52	81-110	Plantation spruce with a mix of aspen and some scattered oak.
123	4130 - Aspen	High Density Sapling	15.1	7		Stand was final harvested in 2006 with all oak, cedar, hemlock, and red pine left. Aspen and red maple came back well, scattered oaks and a couple cedar and red pine left in overstory. Very scattered.
124	4130 - Aspen	High Density Sapling	15.8	14		Stand was final harvested in 1999. Upland stand although southern portion has a little lowland character.
125	4130 - Aspen	High Density Pole	11.3	51		Aspen pole-log stand with mix of balsam, red maple and some paper birch. A few log white pine as well.
126	42121 - Planted Jack Pine, Mixed Deciduous	High Density Pole	16.1	52	1-50	Planted small pole jack pine with heavy mix of aspen and red maple throughout. Not as good shape as jack pine stand to west, more broken up.
127	4133 - Aspen, Mixed Pine	High Density Pole	34.4	42		Aspen dominated complex with mix of white pine, balsam, and red maple. A small pocket of log red and white pine concentrated by road. More lowland character on far southern end of stand. Private to east.
128	6120 - Lowland Cedar	High Density Pole	4.3	105		Small sliver of cedar swamp, Most of the swamp is in compartment to south. Some legacy white pine in stand.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
6	122 - Road/Parking Lot	2.9	Unspecified	Unspecified	
14	310 - Herbaceous Openland	1.4	Unspecified	Unspecified	Scattered mature maple in opening, starting to fill in slowly.
36	330 - Low-Density Trees	2.4	Unspecified	Unspecified	
41	310 - Herbaceous Openland	3.5	Unspecified	Unspecified	
47	623 - Emergent Wetland	1.2	Unspecified	Unspecified	
48	330 - Low-Density Trees	5.3	Unspecified	Unspecified	
56	622 - Lowland Shrub	3.1	Unspecified	Unspecified	Beaver lodge in stand. Looks active.
75	622 - Lowland Shrub	3.6	Unspecified	Unspecified	
78	310 - Herbaceous Openland	1.4	Unspecified	Unspecified	
91	330 - Low-Density Trees	2.6	Unspecified	Unspecified	Two track goes through middle of stand, opening filling in with oaks and cherry.
105	310 - Herbaceous Openland	2.9	Unspecified	Unspecified	
108	6230 - Cattail	3.8	Yes	Aspen	Cedar Habitat cut which flooded out. Came back to mostly cattail. Some aspen clones.
113	621 - Floating Aquatic	2.4	Unspecified	Unspecified	
115	330 - Low-Density Trees	3.6	Unspecified	Unspecified	
119	330 - Low-Density Trees	1.3	Unspecified	Unspecified	