



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33108

Entry Year 2017

Acreage: 882

County Menominee

Management Area: Green Bay Lake Plain

Revision Date: 2015-07-10

Stand Examiner: Dan Beaudou

Legal Description:

T36N R26W Sections 13, 14, 15, 22, 23, & 24

Identified Planning Goals:

This compartment primarily contains lowland cover types with some upland hardwood and aspen ridges. The lowland cover types consist of cedar, tamarack, spruce, lowland hardwoods, and lowland brush. There are seventeen stands that are proposed for harvest, one stand for opening maintenance, one stand to monitor from previous harvest, and one stand to spray for invasive species.

Soil and topography:

Some of the soil map units within this compartment are: Lupton-Cathro association and Onaway Fine Sandy Loam. The soils vary greatly throughout the compartment. In the lowland cover types it is primarily black muck over sandy loam, which is poorly drained and nearly level. And on the higher sites there is mainly fine sandy loam over gravelly fine sandy loam. These sites are well drained and have gently rolling hills with some steeper slopes.

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

This compartment is separated from all other state land, by over a mile. There is a large block of state land to the east along the Lake Michigan shoreline. The private land within and adjacent to this compartment is primarily owned by non-industrial private landowners. There are a number of different family farms located around the perimeter of the compartment. The only developments around the compartment are private dwellings and out buildings.

Unique Natural Features:

None known

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Dry creek flows through the east half of the compartment. Big Brook's headwaters start within the western portion of this compartment.

Wildlife Habitat Considerations:

The most notable feature in this compartment is the old "Berg Farm" located in the central portion. After the State acquired this farm in 1998, the old farm buildings were removed and the large open fields were prescribed burned to stimulate native vegetation. A wetland mitigation project was conducted with the Menominee County Road Commission to establish a series of shallow water pools between two of the elevated field ridges. This project was only partially successful, as the first of three pools held water and developed into a cattail marsh, but the two pools down grade did not. Attempts were made by Wildlife staff to get the county road leading into the farm site abandoned by the county so it could be blocked, thus establishing a walk-in recreational site. Those efforts encountered problems and were not carried through to completion. In recent years, a large cabin has been built on private land directly overlooking the wetland and open fields. This development has detracted both aesthetically and functionally from the quality of the area as wildlife habitat and recreational property. Interest in management of this property has waned.

During this compartment review, we have decided to renew efforts at management of the Berg Farm parcel. FMFMD will re-burn the open fields that were treated last decade, and will expand burning to the hillside where a "maple savanna" will be created. Portions of the grassland openings will be mowed and/or seeded to provide food and cover for a variety of wildlife species. Mast producing trees and shrubs will be planted around some of the field edges. Attempts will be made to screen with trees the open lands and wetland from the large private camp. If management actions are successful, this

compartment will provide habitat for wildlife species that utilize large openings and wet meadows.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till with drumlins. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River Formation underlies the glacial drift. The Black River is quarried for stone in the UP. This compartment has not been previously leased, but sections 3 and 4, to the north, have been leased in the past for metallic mineral exploration. An old, inactive gravel pit is located in Section 21, but there appears to be some potential on the drumlins. No economic oil and gas production has been found in the UP.

Vehicle Access:

County road H-2 is the only access available for the public without getting permission from surrounding private landowners. There are some two track roads that go through private land into state land, but these are limited. The high percentage of lowland cover types also limits the number of roads within the compartment.

Survey Needs:

Seven survey corners would need to be set.

Recreational Facilities and Opportunities:

There are no developed recreational facilities within the compartment. The compartment is used for hunting, camping, and 4-wheeling. Wildlife Division and local pheasant club partnering to implement planting for wildlife habitat.

Fire Protection:

There are no significant fire dangers within this compartment.

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**

Report 1 – Total Acres by Cover Type and Age Class

Escanaba Mgt. Unit

Compartment 108 Year of Entry 2017

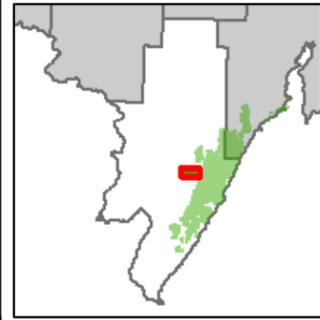
Dan Beaudou : Examiner



Age Class

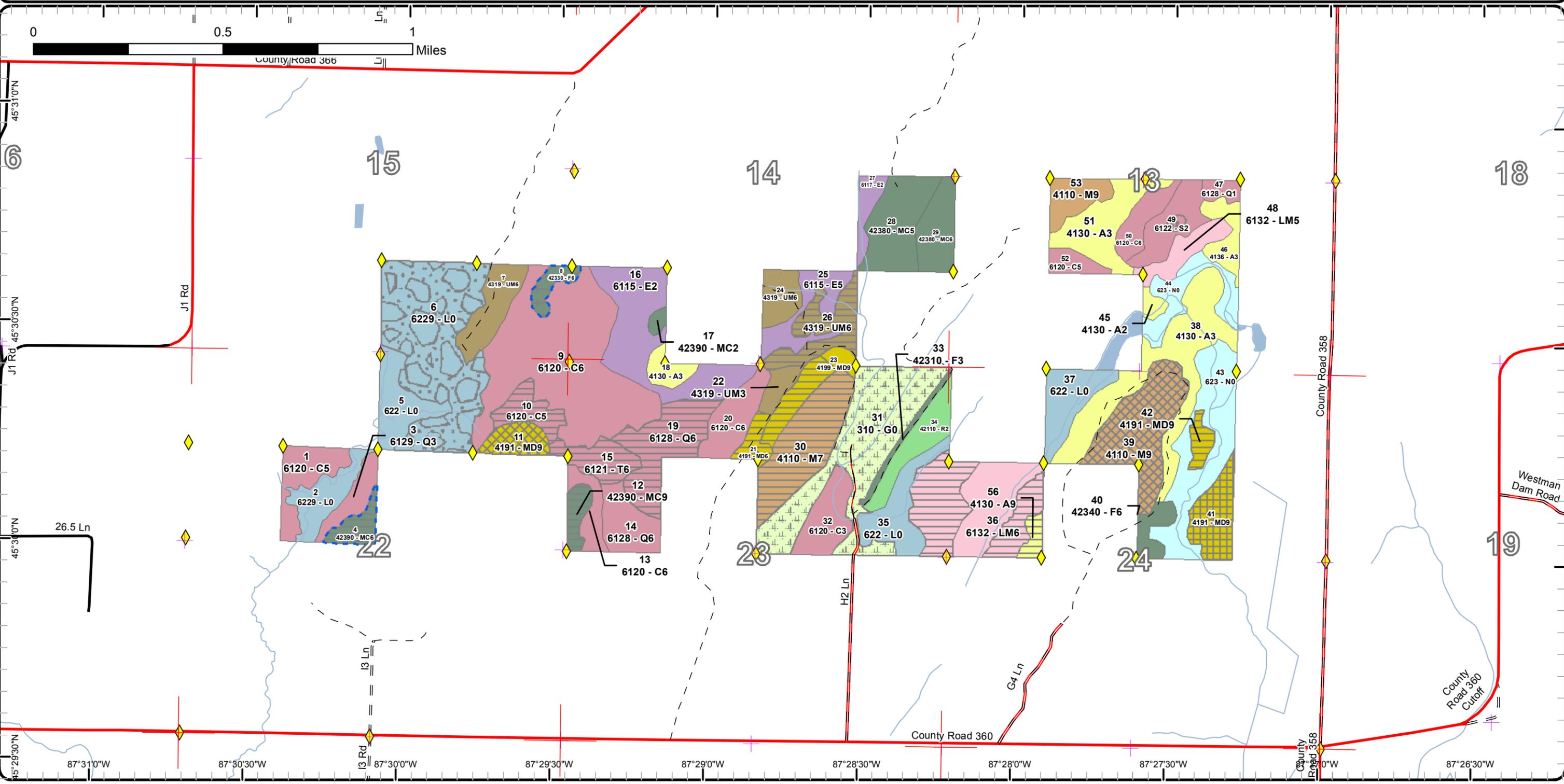
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	72	0	5	0	0	0	0	3	0	0	0	0	0	0	0	0	0	80
Cedar	0	0	0	0	0	14	0	0	0	0	7	13	113	0	0	0	0	5	152
Herbaceous Openland	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Lowland Conifers	0	0	0	0	8	4	0	0	0	0	13	25	0	0	0	0	0	0	50
Lowland Deciduous	0	0	6	13	0	0	0	36	0	0	0	0	0	0	0	0	0	0	55
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	9	0	50	0	0	0	0	0	59
Lowland Shrub	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125
Lowland Spruce/Fir	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Marsh	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Mixed Upland Deciduous	0	0	0	0	0	0	5	0	0	30	8	0	0	0	0	0	0	0	43
Northern Hardwood	0	0	0	0	0	0	0	0	0	10	62	0	0	0	0	0	0	0	72
Red Pine	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Tamarack	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	11
Upland Conifers	0	0	0	37	0	0	0	0	5	0	0	6	0	0	0	0	0	0	48
Upland Mixed Forest	0	0	19	0	9	16	0	0	0	0	0	0	0	0	0	0	0	0	44
Upland Spruce/Fir	0	0	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Total	225	86	46	61	17	34	5	36	8	40	110	44	163	0	0	0	0	5	880

Cover Type & Treatments

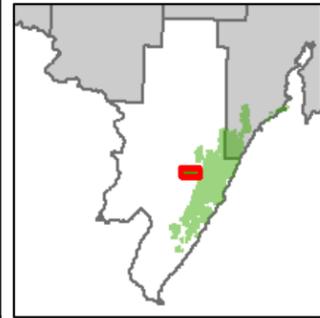


Compartment: 108
 T36N R26W 13-15, 22-24
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Green Bay Lake Plain
 YO: 2017
 Acres: 882 GIS Calculated
 Examiner: Dan Beaudou
 Map Revised: 7/8/2015
 Map Phase: Pre-Review

- | | | |
|--|--|--|
| <ul style="list-style-type: none"> ◆ Remonumented Section Corners ◆ Survey Grade GPS Corners — Miris Corners — County Paved Roads — Paved Roads — County Gravel Roads — Gravel Roads — Poor Dirt Roads — County Poor Dirt Roads — Rivers — Lakes — Treatments with Site Conditions | <ul style="list-style-type: none"> ◆ Treatments ◆ Selection (Group, Single Tree) ◆ Clearcut (w/Reserves) ◆ Pesticide ◆ Other Treatment - See Comments ◆ Regeneration Survey ◆ Harvest, Overstory Removal ◆ Seed Tree (w/Reserves) ◆ Forest Cotype ◆ 411 - Northern Hardwood ◆ 413 - Aspen | <ul style="list-style-type: none"> ◆ 419 - Mixed Upland Deciduous ◆ 421 - Planted Pines ◆ 423 - Other Upland Conifers ◆ 430 - Upland Mixed Fores ◆ 611 - Lowland Deciduous Forest ◆ 612 - Lowland Coniferous Forest ◆ 613 - Lowland Mixed Forest ◆ Non-Forest Cotype ◆ 310 - Herbaceous Openland ◆ 622 - Lowland Shrub ◆ 623 - Emergent Wetland |
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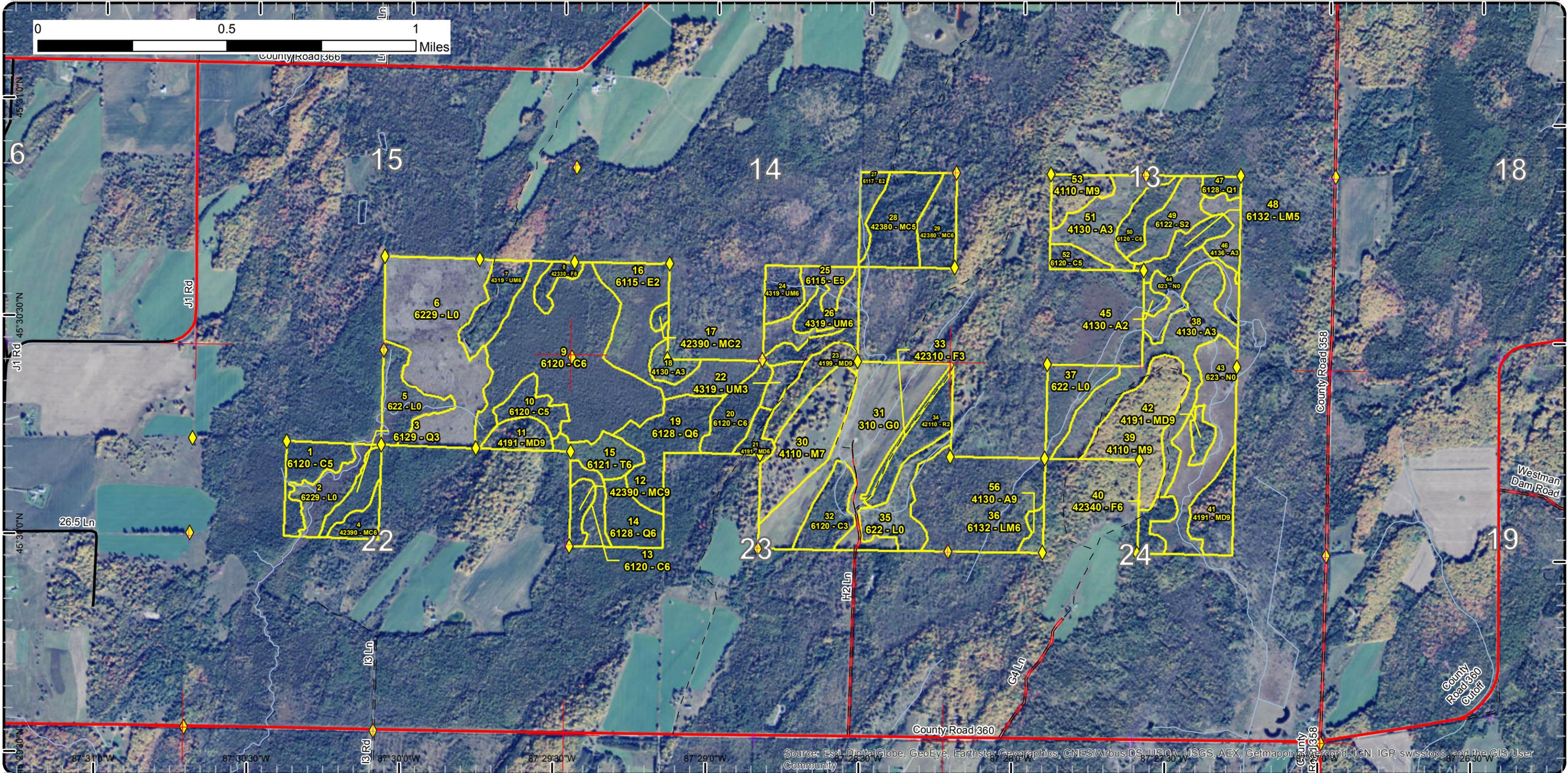


Stand Boundary Map



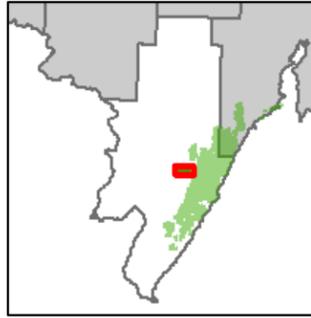
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- ✚ Remonumented Section Corners Forest Coverture
 - ◆ Survey Grade GPS Corners
 - Miris Corners
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Rivers
 - Stand Boundaries
- | | |
|---|---|
| <ul style="list-style-type: none"> 411 - Northern Hardwood 413 - Aspen 419 - Mixed Upland Deciduous 421 - Planted Pines 423 - Other Upland Conifers 430 - Upland Mixed Fores 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest 613 - Lowland Mixed Forest | <ul style="list-style-type: none"> 622 - Lowland Shrub 623 - Emergent Wetland |
|---|---|
- Non-Forest Coverture
 310 - Herbaceous Openland

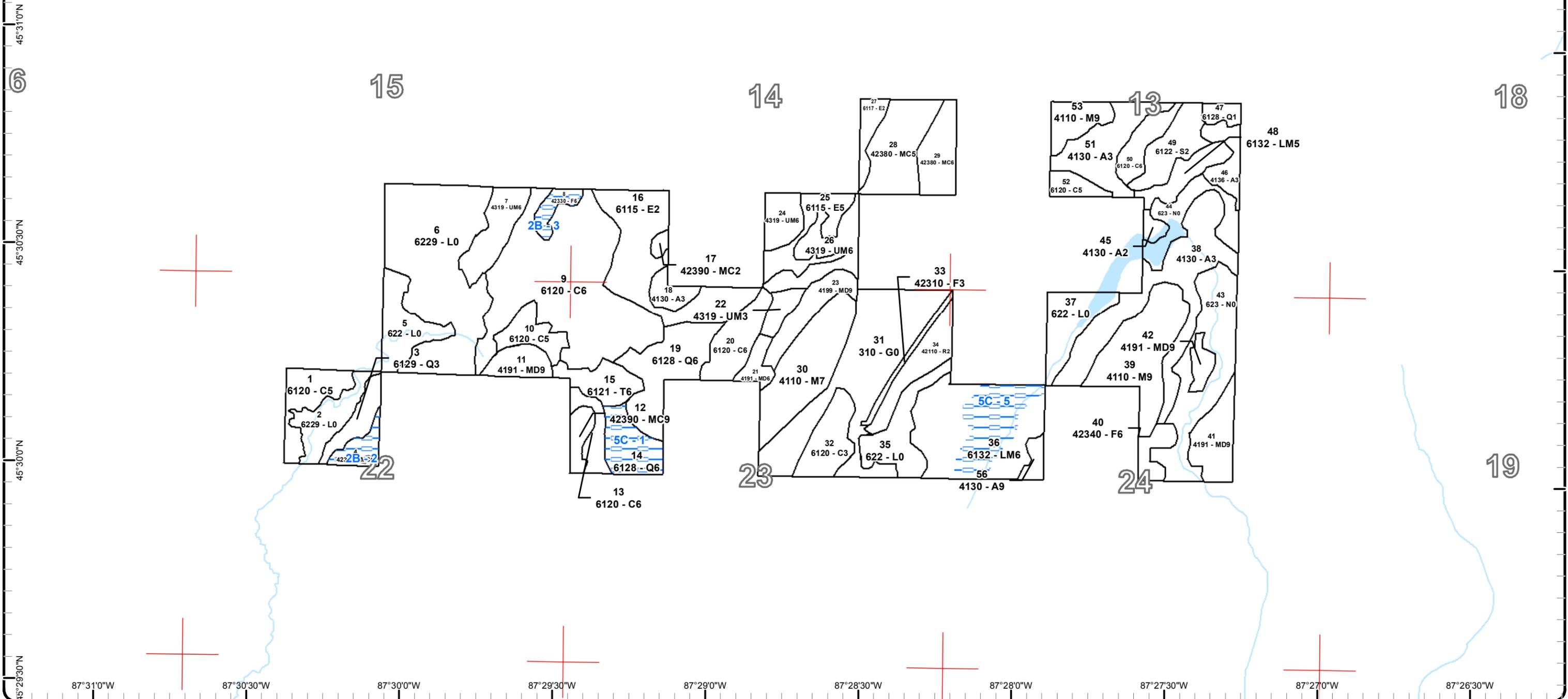
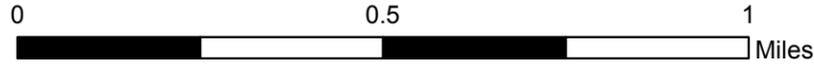


Special Conservation Areas & Site Conditions Map

Compartment: 108
 T36N R26W 13-15, 22-24
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Green Bay Lake Plain
 YOE: 2017
 Acres: 882 GIS Calculated
 Examiner: Dan Beaudou
 Map Revised: 7/9/2015
 Map Phase: Pre-Review



- Miris Corners
- Stand Boundaries
- Site Condition
- Available w/ Constraints
- Available Factors W/ Constraints
- 2B: Unknown if access through adjacent landowner(s) is possible
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes





Report 2 – Treatment Summary

Escanaba Mgt. Unit
Year of Entry: 2017

Acres of Harvest

Compartment 108
Total Compartment Acres: 882

Commercial Harvest - 0
Harvests with Site Condition - 11
Next Step Harvest - 0
Habitat Cut - 120

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	3	0	0	0	0	0	0	0	0	3
Cedar	9	0	0	0	0	0	0	0	0	9
Lowland Conifers	25	0	0	0	0	0	0	0	0	25
Lowland Mixed Forest	29	0	0	0	0	0	0	0	0	29
Mixed Upland Deciduous	18	8	0	14	0	0	0	0	0	40
Northern Hardwood	30	32	0	0	0	0	0	0	0	62
Tamarack	11	0	0	0	0	0	0	0	0	11
Upland Conifers	11	0	0	0	0	0	0	0	0	11
Upland Mixed Forest	16	0	0	0	0	0	0	0	0	16
Upland Spruce/Fir	0	0	0	0	0	0	5	0	0	5
Total	154	40	0	14	0	0	5	0	0	212

Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	212	0	0	0	0	1	66	0	53	332
Next Step	0	0	0	0	0	30	183	0	0	213
Total	212	0	0	0	0	31	249	0	53	545



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
4 33108004-Cut	6.1	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	104	141-170	Harvest	Clearcut	429 - Mixed Upland Conifers	Even-Aged	Proposal

Habitat Cut: No **Site Condition: Unknown Access**

Prescription Clear cut all trees 2" or greater dbh except leave hemlock. Small stand will seed in from surrounding trees.

Specs:

Next Step

Treatments:

Acceptable Regen: Acceptable regeneration will produce a mixed conifer stand which may include balsam fir, black spruce, cedar, hemlock, tamarack, white pine and white spruce.

Other Comment: Needs survey corner and permission to access through private property. Old next step comments:

Proposed Start Date: 10/1 /2016

6 33108006-Monitor	66.4	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	612 - Lowland Coniferous Forest	Even-Aged	Proposal
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Habitat Cut: Yes **Site Condition:**

Prescription Monitor stand for regeneration.

Specs:

Next Step

Treatments:

Acceptable Regen: Acceptable regeneration will produce a mixed conifer stand which may include balsam fir, black spruce, cedar, hemlock, tamarack, white pine and white spruce.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

8 33108008-Cut	4.7	42330 - Upland Fir	Poletimber Well	16	Immature	Harvest	Overstory Removal	42330 - Upland Fir	Two-Aged	Proposal
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Habitat Cut: No **Site Condition: Unknown Access**

Prescription Removal of overstory that includes balsam fir, cedar, pine and white spruce to release seedlings.

Specs:

Next Step

Treatments:

Acceptable Regen: Previous harvest produced acceptable regeneration, this treatment will release it.

Other Comment: Access permission from private landowner needed for harvest. Old next step comments:

Proposed Start Date: 10/1 /2016

10 33108010-Cut	9.5	6120 - Lowland Cedar	Poletimber Medium	116	Unspecified	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Cut all trees greater than 2 inch dbh.

Specs:

Next Step

Treatments:

Acceptable Regen: Acceptable regeneration will produce a mixed conifer stand which may include balsam fir, black spruce, cedar and tamarack.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
11 33108011-Cut	8.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	4319 - Mixed Upland Forest	Uneven-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Mark hardwood to 60-80 basal area. Remove all aspen, ash, balsam fir, and spruce. Cut cedar greater than 10 inch dbh. Exclude higher density of cedar along west and north perimeter of stand from the harvest.

Next Step
Treatments:

Acceptable Regen: Acceptable regeneration will produce a mixed forest stand which may include aspen, ash, balsam fir, basswood, cedar, hemlock, maple, tamarack, and spruce.

Other Comment: Access from private or through State to east. Old next step comments:

Proposed Start Date: 10/1 /2016

12 33108012-Cut	5.4	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	72	111-140	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Two-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 4 inch dbh except leave hemlock. Cut cedar greater than 8 inch dbh. Exclude from the harvest the area of higher density cedar along the northern perimeter of the stand.

Next Step
Treatments:

Acceptable Regen: Acceptable regeneration will produce a mixed conifer stand which may include balsam fir, black spruce, cedar, hemlock, tamarack, white pine and white spruce. There is some patches of cedar and fir with dbh <4" from last harvest several years ago.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

15 33108015-Cut	10.8	6121 - Tamarack	Poletimber Well	95	Unspecified	Harvest	Clearcut	6121 - Tamarack	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees over 2 inch dbh.

Next Step
Treatments:

Acceptable Regen: Acceptable regeneration will most likely be tamarack but may produce a mixed conifer stand including balsam fir, black spruce, cedar, tamarack and white pine.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

19 33108019-Cut	24.8	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	104	Unspecified	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees over 2 inch dbh.

Next Step
Treatments:

Acceptable Regen: Acceptable regeneration will produce a mixed conifer stand which may include aspen, balsam fir, balm, black ash, black spruce, cedar, and tamarack.

Other Comment: Needs survey corners. Old next step comments:

Proposed Start Date: 10/1 /2016



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
21 33108021-Cut	4.9	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	52	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Cut all trees over 2 inch dbh except leave beech, yellow birch and hemlock. Cut during dormant stage of tree growth to promote aspen regeneration.
Specs:

Next Step
Treatments:

Acceptable Acceptable regeneration includes aspen, balsam fir, red maple, balsam poplar, and paper birch.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

23 33108023-Cut	9.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	82	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 2 inch dbh leaving beech, the north patch of northern hardwood and two more patches along the ridge dominated by sapling/pole size paper birch. Preferably cut during tree dormant stage to promote sprouting.
Specs:

Next Step
Treatments:

Acceptable Acceptable regeneration will include aspen, maple, balsam fir, paper birch and cherry.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

26 33108026-Cut	16.1	4319 - Mixed Upland Forest	Poletimber Well	45	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 2 inch dbh except leave beech, hemlock and yellow birch. Preferably cut during tree dormant stage to promote sprouting.
Specs:

Next Step
Treatments:

Acceptable Acceptable regeneration would include balsam, aspen, maple, birch, balm and cherry.
Regen:

Other Needs survey corner. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

30 33108030-Cut	30.1	4110 - Sugar Maple Association	Sawtimber Poor	95	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Harvest to occur in approximately the south half of the stand leaving the north half untreated. Cut all trees 1 inch dbh and larger. Trim tree tops to lay flat on ground to also aid with equipment. Spray herbicide to reduce competition with sod-grass ground cover and spotted knap weed. Trench and plant red pine seedlings. On steep part of hillside, plant wildlife trees/shrubs such as oak, crab apple, resistant beech, etc. Monitor and release pine as needed with herbicide application.
Specs:

Next Step
Treatments:

Acceptable Acceptable survival of planted red pine.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
31	33108031-NF	52.7	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: Yes**Site Condition:**

Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw
Specs: removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

36	33108036-Cut	29.4	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	115	Unspec ified	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut the west side of the stand containing higher concentration of ash. Leave the center where cedar is more concentrated. Cut the east side of
Specs: the stand from the private property west to 50 feet buffer of Dry Creek. Cut all trees greater than 2 inch dbh.

Next Step
Treatments:

Acceptable Acceptable regeneration is ash, aspen, balsam fir, black spruce, cedar and paper birch.
Regen:

Other West side would be 20.1 acres and east side 9.3 acres leaving 20.9 acres for retention. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

39	33108039-Cut	31.7	4110 - Sugar Maple Association	Sawtimber Well	93	111- 140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Use a selection harvest marking stand down to 70-90 Basal Area.
Specs:

Next Step
Treatments:

Acceptable Acceptable regeneration to include sugar maple, ash and basswood.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

41	33108041-Cut	14.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	87	111- 140	Harvest	Seed Tree	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all balsam, spruce, aspen, ash, maple and ironwood greater than 2 inch diameter. Cut cedar greater than 8 inch dbh. Mark a distribution of
Specs: maple to leave for seed trees.

Next Step
Treatments:

Acceptable Acceptable regeneration is aspen, ash, balsam fir, cedar, maple and spruce.
Regen:

Other Need survey corner set. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
42	33108042-Cut	4.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	86	111-140	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 2 inch dbh except leave elm.

Specs:

Next Step

Treatments:

Acceptable Regen: Advanced regeneration of spruce/fir present with further acceptable regeneration of aspen, ash, balsam fir, balm, and spruce.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

49	33108049-Spray	1.0	6122 - Black Spruce	Sapling Medium	9	Immature	Pesticide	Hand Application	612 - Lowland Coniferous Forest	Even-Aged	Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Treat two clumps of phragmites with herbicide to remove the invasive species. The two clumps are less than an acre in size together.

Specs:

Next Step

Treatments:

Acceptable Regen: Removal of the phragmites.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

56	33108056-Cut	3.3	4130 - Aspen	Sawtimber Well	72	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 2" dbh.

Specs:

Next Step

Treatments:

Acceptable Regen: Acceptable Regeneration of aspen, balsam fir, and red maple.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

Total Treatment Acreage Proposed: 332.1

Report 5 – Site Conditions

Escanaba Mgt. Unit
Dan Beaudou : Examiner

Compartment: 108
Year of Entry: 2017

Availability for Management

Total Acres	Acres		Dominant Site Conditions	2B	5C
	Available	Not Available			
81	81	0	Aspen		
153	153	0	Cedar		
53	53	0	Herbaceous Openland		
49	36	13	Lowland Conifers		13
55	55	0	Lowland Deciduous		
59	39	21	Lowland Mixed Forest		21
125	125	0	Lowland Shrub		
14	14	0	Lowland Spruce/Fir		
47	47	0	Marsh		
43	43	0	Mixed Upland Deciduous		
71	71	0	Northern Hardwood		
13	13	0	Red Pine		
11	11	0	Tamarack		
48	42	6	Upland Conifers	6	
43	43	0	Upland Mixed Forest		
14	10	5	Upland Spruce/Fir	5	
882	837	45	Total Forested Acres	11	34
	95%	5%	Relative Percent		

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Escanaba Mgt. Unit
Dan Beaudou : Examiner

Compartment: 108
Year of Entry: 2017

2	Available	2B: Unknown if access through adjacent landowner(s) is possible	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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
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Comments



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Poletimber Medium	13.2	104	Unspecified	This cedar is in a decline appearance. Boughs are thinning with gaps in the canopy leaving a closure in the 50-75% range. Tamarack and black spruce seedlings are scattered throughout the stand. Cedar and tamarack regeneration along creek that is 5-15 feet tall.
3	6129 - Mixed Coniferous Lowland Forest	Sapling Well	7.8	38	Unspecified	The majority of this stand was cut in 1977 with about an acre of beaver flood damage cut in 1966. Good, thick regeneration with saplings about 30 foot tall.
4	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	6.1	104	141-170	Balsam fir is dying and falling over. Tried boring three cedar trees but all rotten in middle. Overall appearance of an over mature stand with dead balsams crisscross on the ground. No record of this stand ever being cut.
7	4319 - Mixed Upland Forest	Poletimber Well	13.8	15	Immature	This stand was cut in 2000 according to contract number 33-042-97-02. All trees were cut except cedar over 10" and maple within 200 feet of north line. Good regeneration has taken place with majority being aspen and balsam fir that are 20-30 foot tall.
8	42330 - Upland Fir	Poletimber Well	4.7	16	Immature	This stand was cut in 1999 according to contract number 33-042-97-02. All trees were cut except cedar, white spruce and
9	6120 - Lowland Cedar	Poletimber Well	81.5	116	Unspecified	The majority of the stand is comprised of poor quality cedar. Some black spruce and tamarack is scattered throughout the stand.
10	6120 - Lowland Cedar	Poletimber Medium	9.5	116	Unspecified	About 75% of the tamarack in this stand has been beetle killed otherwise there would be a larger percentage noted in the canopy. The cedar is in decline not looking very healthy. Some black spruce scattered throughout stand with tamarack seedlings starting to show up.
11	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	8.0	92	111-140	This stand is a hardwood ridge that drops down to swamp incorporating the transition between hardwood to swamp conifer. No records or evidence on the ground were found of this stand every being thinned/cut. Larger balsam already dead and crisscrossing on ground. Porcupine damage in deciduous trees.
12	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	5.4	72	111-140	Large white spruce showing mortality. Cedar mostly along swamp edge but some mixed throughout stand. Part of stand was cut in 1967 must have been where clumps of balsam are 3-4 inch diameter.
13	6120 - Lowland Cedar	Poletimber Well	7.1	97	Unspecified	This stand is made up of smaller timber due to the wetter conditions and possible drainage area as characteristic of black ash presence. If stand 12 can not be accessed from private then a winter skid trail will have to go through this stand.
14	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	13.2	94	Unspecified	This stand is low and wet with a greater amount of cedar component than stand 13 to west.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	6121 - Tamarack	Poletimber Well	10.8	95	Unspecified	This stand is mostly tamarack with some beetle kill showing up. Diameter on small side but with beetle kill in and surrounding stand, recommend to harvest. Poor quality cedar mixed in.
16	6115 - Lowland Ash	Sapling Medium	36.3	67	Unspecified	This stand is a low, wet area that supports mostly small black ash and brush.
17	42390 - Mixed Non-Pine Upland Conifers	Sapling Medium	1.7	23	Immature	This stand was cut in 1992 on contract 33-003-92-02. Some open grassy areas that produce the 50-75% canopy closure but are seeding in.
18	4130 - Aspen	Sapling Well	5.4	23	Immature	This stand was cut in 1992 under contract 33-003-92-02. Good aspen regeneration except around cedar trees prescribed not to cut in 1992.
19	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	24.8	104	Unspecified	This is a mixed stand with smaller cedar than adjacent stand 20 to east. There is aspen scattered through out the stand with some dead. North end of stand more dense with smaller tree size and has beetle killed tamarack. Private looks like it had been cut some time ago and has good regeneration with saplings 10-15 feet tall.
20	6120 - Lowland Cedar	Poletimber Well	14.0	116	Unspecified	This stand has less standing water and cedar is noticeably bigger and healthier. Few dead trees laying on ground. High basal area and thick canopy.
21	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.9	52	81-110	This stand shows being cut under contract 23-77 in 1978 but size and growth rings indicate greater age. Larger trees starting to die and fall over. Balsam fir has greatest diameter range from 2-14 inches with larger trees dying.
22	4319 - Mixed Upland Forest	Sapling Well	4.8	17	Immature	This stand was cut in 1998 under contract 33-034-97-01. Cedar and hemlock were not cut contributing to the larger diameter in those species. Good mixed regeneration being fully stocked.
23	4199 - Other Mixed Upland Deciduous	Sawtimber Well	11.9	82	111-140	This stand was part of cattle pasture before the State acquired it. It is on a steep northwest facing ridge. Maple is of lower quality. The aspen is scattered through out the stand. The north end of the stand resembles a northern hardwood type.
24	4319 - Mixed Upland Forest	Poletimber Well	8.7	37	51-80	This stand was cut in 1978 under contract number 60-74A. The south part of this stand has a greater balsam fir canopy. North part of stand has a greater red maple canopy. Good growth, thick and healthy looking.
25	6115 - Lowland Ash	Poletimber Medium	12.8	27	1-50	This stand was cut in 1978 under contract 60-74A. A typical ash drainage containing a mix of species that can grow in seasonally wet conditions.
26	4319 - Mixed Upland Forest	Poletimber Well	16.1	45	81-110	This stand was cut in 1978 under contract number 60-74A. Current growth rings averaged between 40-50 years and must have been the unmerchantable trees. Variable sized balsam fir but larger are dying and falling over.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	5.7	14	Immature	This stand consists of a lowland ash drainage. This stand was cut in 2001 under contract 33-034-97-01. Cedar is larger because it was a leave species during the harvest.
28	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Medium	22.0	24	Immature	This stand was cut in 2001 under contract 33-034-97-01. Cedar is of larger diameter because it was a leave tree during the harvest.
29	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	13.2	24	Immature	This stand was cut in 2001 under contract 33-034-97-01. Larger diameter cedar, pine, and hemlock were leave trees during the harvest. Large white pine tops appear to be thinning. Rest of stand looks healthy.
30	4110 - Sugar Maple Association	Sawtimber Poor	30.1	95	1-50	This stand was cut in 2008 under contract number 33-026-07-01 as a thinning. It now contains scattered large sugar maple trees with reed canary, other grasses and spotted knapweed on ground. This was cattle pasture when privately owned. No seedling, saplings or pole size trees are present.
32	6120 - Lowland Cedar	Sapling Well	14.0	44	Unspecified	This stand was also part of cattle pasture in past. Cedar stumps indicate periodic cutting by previous landowner.
33	42310 - Planted Spruce	Sapling Well	3.4	18	Immature	This stand was planted in 1997 to white spruce to screen the two track road from the pond/wetland complex. Some trees appear to have budworm.
34	42110 - Planted Red Pine	Sapling Medium	13.1	18	Immature	This stand was planted in 1997 to red pine. Several fences were installed around some of the red pine to exclude wildlife. These enclosures have a noticeable size difference in the red pine with dbh 5-6" and several feet taller and higher stocking density. The enclosures will be removed.
36	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	50.2	115	Unspecified	This stand is not an even mix of the species observed. The black ash is mostly along the west and northern edges and the cedar is more concentrated in the central to eastern edge.
38	4130 - Aspen	Sapling Well	41.4	7	Immature	This stand was cut in 2008 under contract number 33-025-07-01. Good regeneration of aspen and balsam fir with saplings 10-20 feet tall. The cherry trees left standing during the cut are either blown over, standing dead or some alive with epicormic branching. A couple cherry trees that were cut have vigorous stems coming off the stump and are same size as aspen saplings.
39	4110 - Sugar Maple Association	Sawtimber Well	31.7	93	111-140	This is a nice sugar maple stand with some basswood and white ash mixed in. Some cankers but overall looks healthy. Stand was thinned in 1994 under contract number 33-030-93-02. Stand is ready for a thinning.
40	42340 - Upland Spruce/Fir	Poletimber Well	6.2	22	Immature	Thick stand with varying tree diameter. This stand was cut in 1993 under contract number 33-030-93-02.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	14.0	87	111-140	This stand was cut in 1993 under contract number 33-030-93-02. Maple, cedar, cherry and trees yielding 2 or less sticks were not allowed to be cut.
42	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	4.2	86	111-140	Aspen, balsam and spruce are dying out. Ash and Balm around the perimeter. Dry Creek flows on east side of stand.
45	4130 - Aspen	Sapling Medium	2.4	9	Immature	This stand was cut in 2006 under contract 33-045-02-01. Good regeneration of aspen and balm.
46	4136 - Aspen, Mixed Conifer	Sapling Well	8.3	9	Immature	This stand was cut in 2006 under contract number 33-045-02-01. Pretty good regeneration with some small areas set back by browsing.
47	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	3.6	45	Unspecified	This stand appears to have been a lowland shrub type that is seeding in.
48	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	9.3	96	Unspecified	This is a wetter stand with sparser trees.
49	6122 - Black Spruce	Sapling Medium	13.7	9	Immature	This stand was cut in 2006 under contract number 33-045-02-01. Spruce and tamarack regenerating good with some open areas of cattail and tag alder. Two small clumps of phragmites in middle of stand.
50	6120 - Lowland Cedar	Poletimber Well	8.9	116	Unspecified	This stand is a thick, tall and dense stand of cedar with some other mixed in. No sub-canopy present. Some cedars on the west edge are wind thrown.
51	4130 - Aspen	Sapling Well	19.9	9	Immature	This stand was cut in 2006 on contract number 33-045-02-01. Good aspen regeneration making up the majority.
52	6120 - Lowland Cedar	Poletimber Medium	5.1	116	Unspecified	Stand was cut in 2006 under contract number 33-045-02-01. This is lower ground with more cedar in that was left from the timber sale. There is a moderate occurrence of wind throw with standing cedar appearing thin and pale.
53	4110 - Sugar Maple Association	Sawtimber Well	9.6	85	81-110	This stand was thinned in 2006 under contract number 33-045-02-01. Nice sugar maple stand but no regeneration other than ironwood saplings. Ground is covered with sedge.
56	4130 - Aspen	Sawtimber Well	3.3	72	Unspecified	This is an aspen dominated stand before ridge transitions into lowland. No record of this stand being cut. Large diameter aspen starting to get conks.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	6229 - Mixed lowland shrub	12.9	No	The Big Brook creek flows through this stand that contains tag alder, willow, osier and a mix of tall grasses.
5	622 - Lowland Shrub	15.2	No	The Big Brook creek flows through this stand and is surrounded by lowland shrub and tamarack regeneration along the perimeter.
6	6229 - Mixed lowland shrub	66.4		This stand was cut in 2013 and finished 2014 according to contract 33-021-10-01. Seed tree clumps of tamarack, black spruce and cedar were spaced through out the stand. Monitor for regeneration.
31	310 - Herbaceous Openland	52.8	No	This stand is a large grass opening that was used for cattle pasture and forage production when privately owned as dairy farm. When the State acquired the property, Wildlife Division created some wetland complexes for waterfowl. Other parts of the opening have been tilled and planted in partnership with a local pheasant club. There appears to be some switchgrass growing in the south west field that would benefit from prescribed fire.
35	622 - Lowland Shrub	16.1	No	This is a lowland shrub stand with some trees mixed in.
37	622 - Lowland Shrub	14.9	No	Lowland shrub area that Dry Creek flows through.
43	623 - Emergent Wetland	33.4	No	This stand is an open marsh area created from past beaver flooding with Dry Creek flowing through it.
44	623 - Emergent Wetland	14.0	No	This stand is a grassy marsh with some shrubs and Dry Creek flowing through it.