



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33044

Entry Year 2020

Acreage: 1,609

County Menominee

Management Area: Green Bay Lake Plain

Revision Date: 2018-06-19

Stand Examiner: Dan Beaudou

Legal Description:

T36N R25W Sections 23, 26, and 35

Identified Planning Goals:

The compartment is comprised of aspen, hardwood, pine and swamp conifer/cedar stands. The aspen stands are all close to the same age class but not quite merchantable enough to propose treatment. Next year of entry there should be enough size to start diversifying the age class of aspen. There is a mix of hardwood types from a couple stands of northern hardwood to some containing more of the red maple conifer type. Three red pine stands are being proposed for overstory removal. These are mature stands with diameters pushing the marketable limits for upper diameter. Some large pine will be retained for aesthetics, seed and roosting. Advanced regeneration is in all the stands with red pine and other conifers. Many of the lowland conifer stand have been treated in the past so are either a younger age or now have a higher cedar component to the canopy. Overall, the compartment has several younger, healthy stands that will be approaching silvicultural criteria in the next couple inventory cycles.

Soil and topography:

The topography is level to slightly rolling. The soils are poorly drained, somewhat poorly drained, well drained sands, and very poorly drained, extremely acid mucks and peats. The major soil series are Deford, Wainola, Rousseau, Dawson, Greenwood, and Kinross.

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

This compartment is part of a large block of state forest land that is about 25 miles long by 7 miles wide near the Lake Michigan shoreline. Small private land holdings lie within this belt. Land use is mixed on state forest land and largely recreational on private in-holdings.

Unique Natural Features:

None known

Archeological, Historical, and Cultural Features:

None known sites

Special Management Designations or Considerations:

None known

Watershed and Fisheries Considerations:

Northern and southern regions of this compartment contain headwater areas associated with Deer Creek. A 100' plus 5' per 1% increase in slope; buffer is recommended to protect these headwaters of Deer Creek in accordance with Best Management Practices. Lake Michigan is just under a half mile to the east.

Wildlife Habitat Considerations:

- 1/3 of this compartment is aspen forest that is of young age and will be allowed to grow to maturity.
- More than 1/3 of the compartment is lowland forest comprised of cedar, swamp conifer, and lowland brush. Most of this acreage will be maintained for valuable wildlife cover.
- Forest treatments for this decade are mainly restricted to a few small hardwood, and pine stands. Hardwood treatments will provide a valuable food source for deer browse, while pine treatments will contribute to diversity. Large mature pines will be retained for for nesting/roosting trees.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 44: Sections 22-23, 26, & 35, T36N-R25W, Menominee County

The nearest active sand/gravel pit is located more than four miles to the southwest. There is some gravel potential within the compartment, but the water table is shallow and there are numerous wetlands. Limestone underlies glacial drift in this area, which could be used for crushed stone. But, at depths of 30 feet or more, it would not likely be economical to mine in

this remote area. No economic oil and gas production has been found in the UP. State mineral rights in Sec 36, adjacent to the compartment, were previously leased for metallic mineral exploration, but there was no mineral development. Metallic mineral potential is considered low.

Vehicle Access:

The two main forest roads, the South Fox and the Camp K, provide good access to this compartment. There are several two track roads that spur off these.

Survey Needs:

No survey needs at this time.

Recreational Facilities and Opportunities:

There are no developed recreational facilities present within this compartment, but good opportunities exist for a variety of outdoor recreation including hunting, trapping, hiking, camping and limited orv riding.

Fire Protection:

There are no hazard fuels in this area. The compartment has an excellent road system that will aid in fire suppression.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

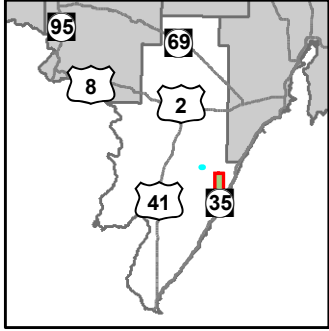
The following information is displayed, where pertinent, on the attached compartment maps:

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

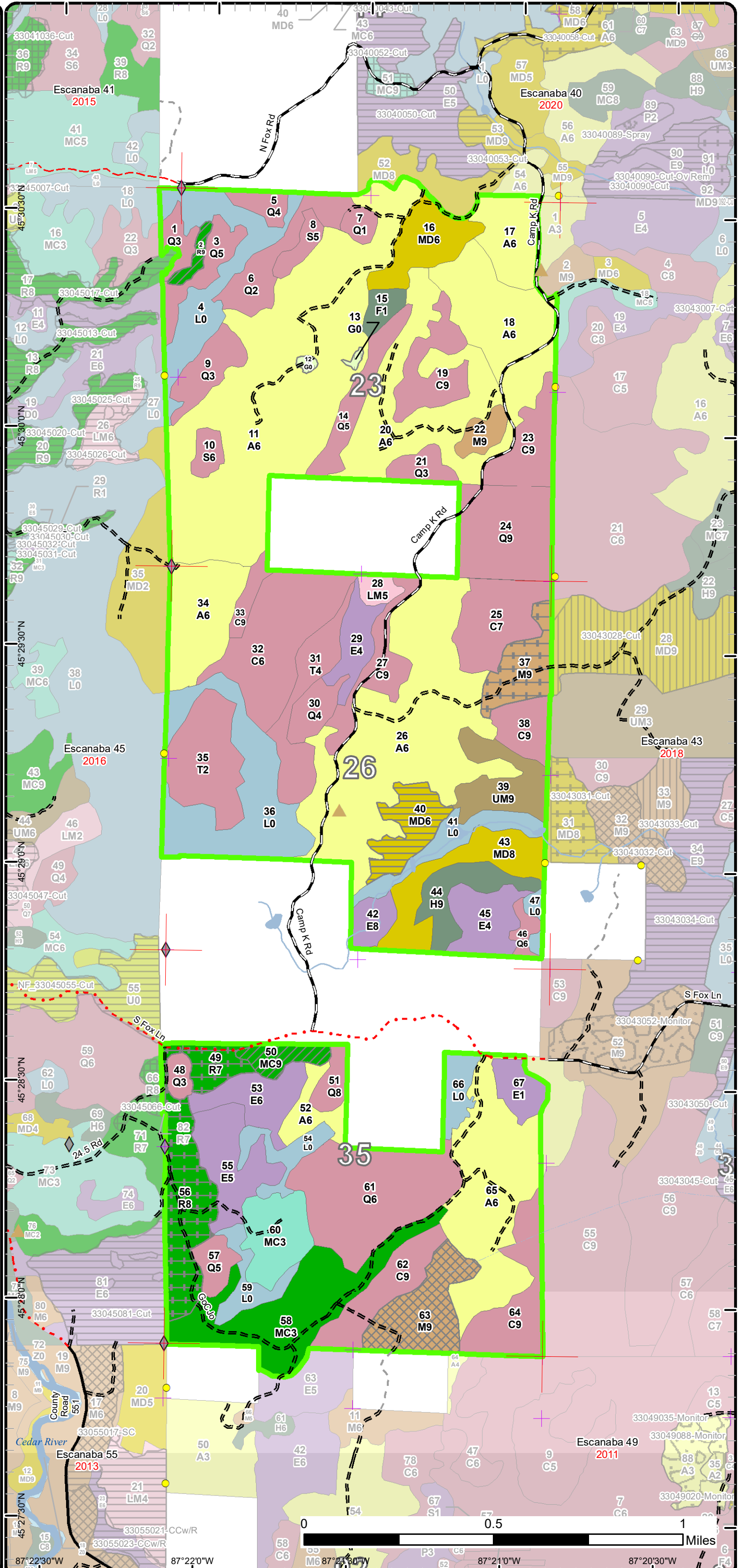
Cover Type & Treatments Map

Compartment: 44
T36N - R25W Sec. 23, 26, 36

County: Menominee
Unit: Escanaba
Mgmt Area: Green Bay Lake Plain
YOE: 2020
Acres: 1,609 GIS Calculated
Examiner: Dan Beaudou
Map Revised: 6/28/2018
Map Phase: Web - Post



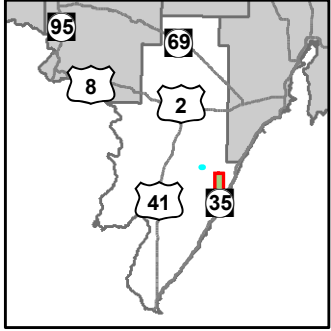
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- ▭ Compartment Boundary
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Harvest, Overstory Removal
- ▨ Thinning (Crown, Low, Systematic)
- ▨ Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- Lakes



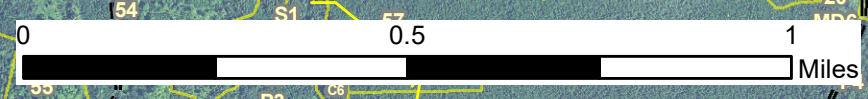
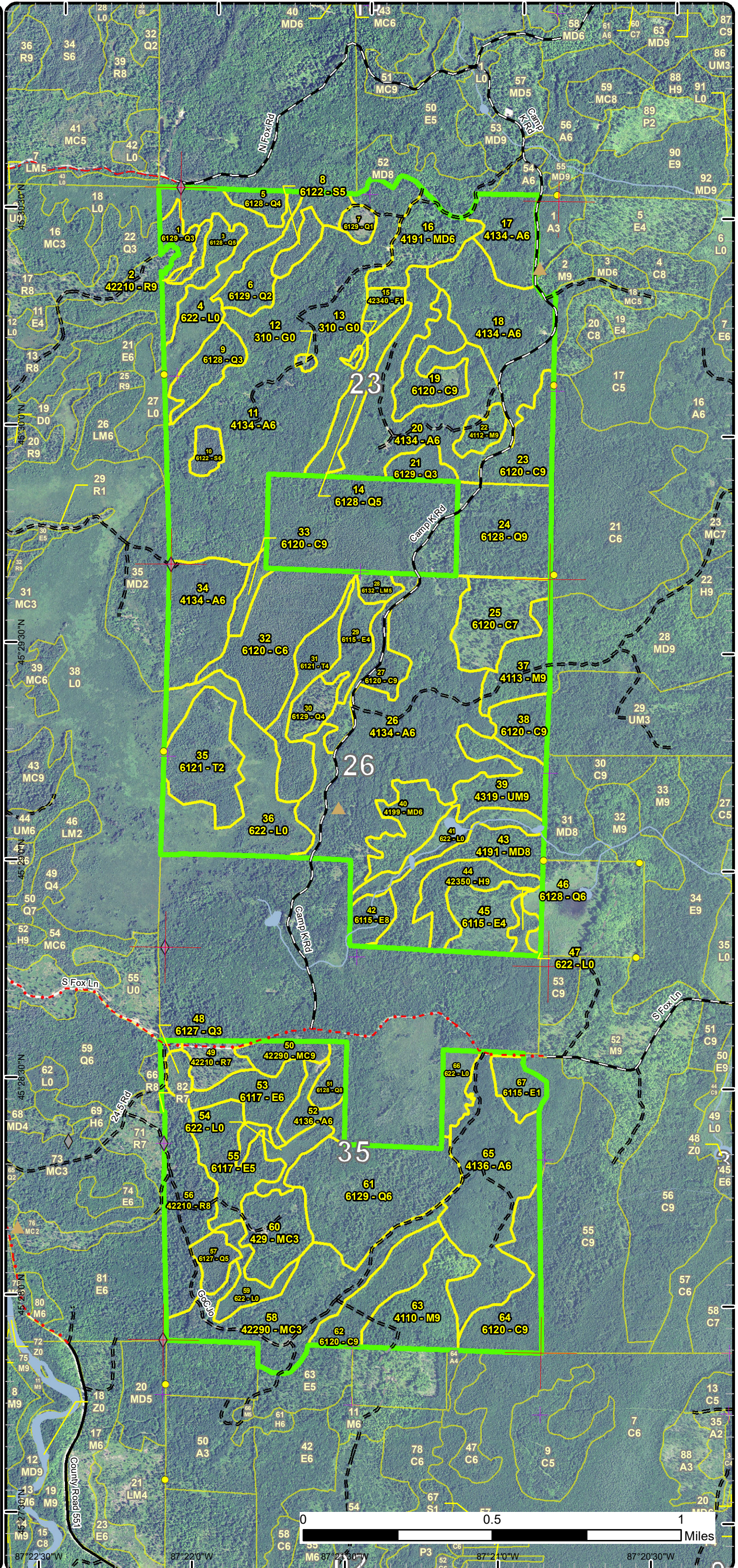
Stand Boundary Map

Compartment: 44
T36N - R25W Sec. 23, 26, 36

County: Menominee
Unit: Escanaba
Mgmt Area: Green Bay Lake Plain
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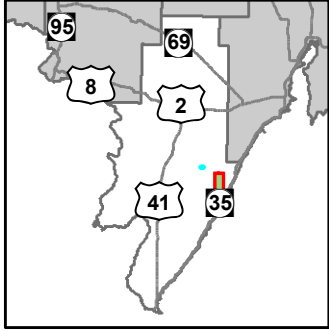


87°22'30" W 87°22'0" W 87°21'30" W 87°20'30" W

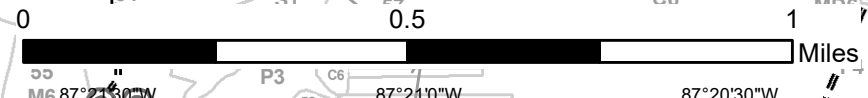
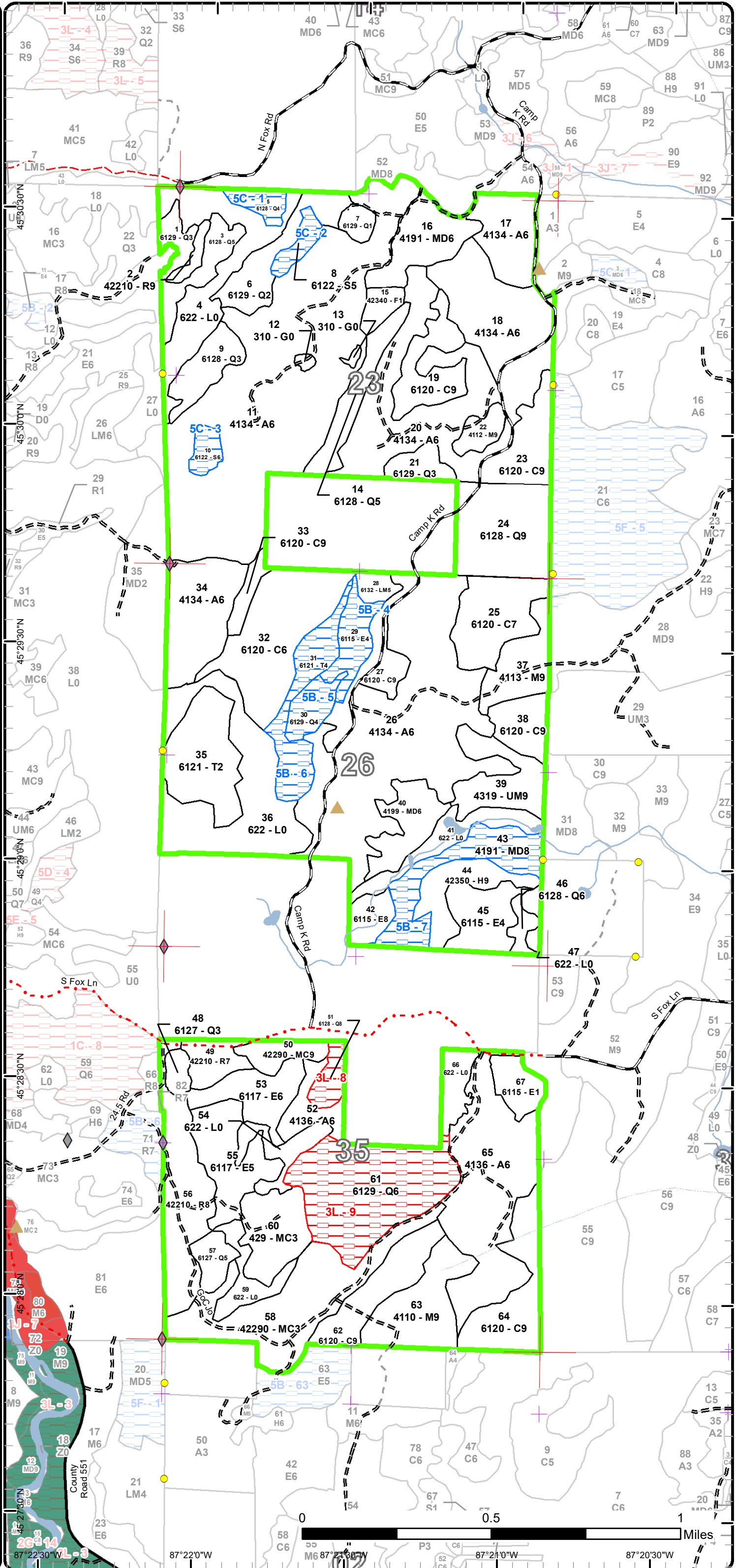
Special Conservation Areas & Site Conditions Map

Compartment: 44
T36N - R25W Sec. 23, 26, 36

County: Menominee
Unit: Escanaba
Mgmt Area: Green Bay Lake Plain
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- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- ▭ Compartment Boundary
- ▭ Available w/ Constraints
- ▭ Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3L: Other wildlife concerns
- ▭ Stand Boundaries
- ▭ Ecological Reference Areas
- ▭ Cold Water Streams
- ▭ Cold Water Lakes
- ▭ Habitat Corridor
- ▭ Possible Type 1 Old Growth



87°22'30"W 87°21'0"W 87°20'30"W

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	104	211	236	0	0	0	0	0	0	0	0	0	0	0	0	551
Cedar	0	0	0	0	0	0	0	0	0	0	28	0	29	0	120	28	0	0	205
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	18
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	5	0	59	8	0	0	8	0	0	27	0	0	7	49	62	0	0	224
Lowland Deciduous	0	0	0	0	11	19	27	0	28	0	13	0	0	0	0	0	0	0	97
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5
Lowland Shrub	144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	6	6	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	0	0	0	0	0	0	0	22	0	19	0	29	0	0	0	0	0	0	69
Natural Mixed Pines	0	0	0	0	56	0	9	0	0	0	0	0	0	0	0	0	0	0	65
Northern Hardwood	0	0	0	0	0	0	0	0	0	19	7	30	0	0	0	0	0	0	56
Red Pine	0	0	0	0	0	0	0	0	0	0	0	53	0	0	0	0	0	0	53
Tamarack	0	0	0	0	0	33	0	23	0	0	0	0	0	0	0	0	0	0	56
Upland Conifers	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	22
Upland Spruce/Fir	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	146	11	23	163	286	288	36	53	28	66	81	112	29	25	174	90	0	0	1608



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 44

Total Compartment Acres: 1,609

Commercial Harvest - 135
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Mixed Upland Deciduous	19	0	0	0	0	0	0	0	0	19
Natural Mixed Pines	0	0	0	0	9	0	0	0	0	9
Northern Hardwood	0	30	0	0	0	19	0	0	0	49
Red Pine	0	0	0	7	4	48	0	0	0	59
Total	19	30	0	7	13	67	0	0	0	135

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	135	0	0	0	0	0	0	2	0	137
Next Step	0	0	0	0	0	55	0	0	0	55
Total	135	0	0	0	0	55	0	2	0	193



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
2	33044002-Cut	3.6	42210 - Natural Red Pine	Sawtimber Well	100	111-140	Harvest	Crown Thinning	429 - Mixed Upland Conifers	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Thinning to release crown and sub-canopy. Cut all balsam and spruce greater than 4" dbh due to tall being susceptible to wind breakage. Thin mature pine to 20 basal area. This stand would be more feasible to treat if able to add this small 3.6 acre treatment as a supplement to the current adjacent timber sale of 33-045-17-01 or follow up sale area if that sale is not completed. Proposed Start Date moved to 10/1/2018.

Next Step
Treatments:

Acceptable red pine, white pine, balsam and spruce.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

12	33044012-NF	1.2	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/Grass Planting	310 - Herbaceous Openland		Proposal
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Habitat Cut: No**Site Condition:**

Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw 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
Comment:

Proposed Start Date: 10/01/2019

13	33044013-NF	0.9	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/Grass Planting	310 - Herbaceous Openland		Proposal
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Habitat Cut: No**Site Condition:**

Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw 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
Comment:

Proposed Start Date: 10/01/2019

37	33044037-Cut	19.0	4113 - R.Maple, Conifer	Sawtimber Well	89	111-140	Harvest	Overstory Removal	4113 - R.Maple, Conifer	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees greater than 4" dbh except leave hemlock, cedar and some scattered large trees of different species. Advanced regeneration of pine, spruce and balsam will be released and red maple will stump sprout to produce a diverse stand similar to the current condition.

Next Step
Treatments:

Acceptable Red maple, pine, balsam, spruce, birch
Regen:

Other
Comment:

Proposed Start Date: 10/01/2019



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
40	33044040-Cut	18.6	4199 - Other Mixed Upland Deciduous	Poletimber Well	89	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Cut all trees greater than 3" dbh except leave cedar, hemlock and some scattered large trees. This stand has mature poor quality red maple and the
Specs: age recommends harvest.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable red maple, balsam, spruce, pine
Regen:

Other
Comment:

Proposed Start Date: 10/01/2019

49	33044049-Cut	10.6	42210 - Natural Red Pine	Sawtimber Poor	108	1-50	Harvest	Overstory Removal	429 - Mixed Upland Conifers	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Remove the overstory trees except leave some scattered large pine for diversity and aesthetics. Harvesting should utilize previous skid trails and
Specs: minimize damage to advanced regeneration. This overstory removal will release the current regeneration and minimize damage to regeneration before skid trails fill back in.

Next Step
Treatments:

Acceptable Advanced regeneration present including balsam, spruce, red and white pine.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2019

50	33044050-Cut	9.1	42290 - Natural Mixed Pine	Sawtimber Well	56	111-140	Harvest	Crown Thinning	429 - Mixed Upland Conifers	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin east area of planted red pine to release canopy by marking individual red pine to remove. Cut all ash, balsam, spruce, maple, aspen and birch
Specs: greater than 4". Cut all white pine greater than 12" except leave a couple of the largest.

Next Step
Treatments:

Acceptable This is a crown release with current regeneration already in place.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2019

56	33044056-Cut	37.7	42210 - Natural Red Pine	Sawtimber Medium	108	111-140	Harvest	Overstory Removal	429 - Mixed Upland Conifers	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all spruce, balsam, aspen and maple 4" dbh and greater. Cut red and white pine 10" dbh and greater except leave some scattered large
Specs: diameter pine. Protect the advanced regeneration and minimize damage by harvesting and skidding down same path parallel to GoCJo Road. This will release the advanced regeneration and allow for some diameter diversity in the pine improving aesthetics during and after the harvest along the GoCJo Road.

Next Step
Treatments:

Acceptable Current advanced regeneration already in stand.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2019



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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
63 33044063-Cut	29.7	4110 - Sugar Maple Association	Sawtimber Well	106	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Thin stand down to about 70 basal area according to the Compleat Marker guide. Stand was thinned 20 years ago. Average basal area is around
Specs: 140 square feet per acre. The canopy has closed back up in most areas.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration consistent with northern hardwood species such as sugar maple, basswood, ash, beech, birch, cherry.

Other

Comment:

Proposed Start Date: 10/01/2019

**Total Treatment
Acreage Proposed: 130.4**

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Beaudou : Examiner

Compartment: 44
Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		5B	5C	3L
551	481	71	0	Aspen	71		
206	206	0	0	Cedar			
18	18	0	0	Hemlock			
2	2	0	0	Herbaceous Openland			
224	140	16	69	Lowland Conifers	10	6	69
98	74	24	0	Lowland Deciduous	24		
5	5	0	0	Lowland Mixed Forest			
144	134	10	0	Lowland Shrub	10		
12	0	12	0	Lowland Spruce/Fir		12	
69	41	28	0	Mixed Upland Deciduous	28		
65	19	47	0	Natural Mixed Pines	47		
56	56	0	0	Northern Hardwood			
53	53	0	0	Red Pine			
56	33	23	0	Tamarack	23		
23	23	0	0	Upland Conifers			
22	22	0	0	Upland Mixed Forest			
6	6	0	0	Upland Spruce/Fir			
1,609	1,311	230	69	Total Forested Acres	212	18	69
	81%	14%	4%	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	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Beaudou : Examiner

Compartment: 44
Year of Entry: 2020

2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is one of two small mature black spruce stands within the compartment. There were other small S stands harvested last year of entry. Hold for age class diversity. Minimal mortality, small stand size, harvest next cycle with stand 11.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is the second of two small mature black spruce stands within the compartment. There were other small S stands harvested last year of entry. Hold for age class diversity.							
4	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Low density, wet and small diameter save for seed source.							
5	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Current low density trees will provide seed source for improving stocking levels.							
6	Available	5B: Maintain for regeneration purposes	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Maintain for seed source due to low density, wet and small diameter.							
7	Available	5B: Maintain for regeneration purposes	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold off treatment this cycle to allow more advanced regeneration to fill in before final harvest.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Beaudou : Examiner

Compartment: 44
Year of Entry: 2020

8	Unavailable	3L: Other wildlife concerns	7	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This is a two aged stand produced from a previous harvest that meets criteria because the retained cedar and hemlock are about 50% of the canopy. The other 50% is small diameter regeneration of other species. No harvest due to amount of cedar, hemlock and Conditional Deer Winter Range Guidelines.</p>							
9	Unavailable	3L: Other wildlife concerns	62	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This is a two aged stand produced from a previous harvest that meets criteria because the retained cedar and hemlock are about 60% of the canopy. The other 40% is small diameter regeneration of other species. No harvest due to amount of cedar, hemlock and Conditional Deer Winter Range Guidelines.</p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Mgt. Unit

Compartment:

Year of Entry



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6129 - Mixed Coniferous Lowland Forest	Sapling Well	6.8	23	Immature	Stand was cut in 1995 under contract 33-002-94-01. Trees are larger on slight upland. Tamarack regeneration lowland areas. There is scattered large tamarack with trace amount of maple and birch.
2	42210 - Natural Red Pine	Sawtimber Well	3.6	100	111-140	This stand is a pine ridge surrounded by mixed lowland forest. There was historical thinning due to flat stumps still present and red paint line around the ridge. Sub-canopy is tall enough to benefit from a crown release harvest. There is a trace amount of larger spruce, balsam fir and paper birch.
3	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	12.8	23	Immature	Stand was cut in 1995 under contract 33-002-94-01 with cedar and hemlock being retained producing more of a cedar component to it with a patch of hemlock off the north east tip of the pine ridge.
5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	6.4	98	Unspecified	Low density conifer with deciduous trees. Open areas with thick lowland brush.
6	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	19.9	23	Immature	This stand was cut in 1995 under contract 33-034-92-01. There is scattered large white pine, red pine, hemlock and cedar that were retained during the harvests. The majority of the stand is thick conifer regeneration with trace amounts of deciduous species.
7	6129 - Mixed Coniferous Lowland Forest	Sapling Poor	4.6	5	Immature	This stand was cut in 2013 under contract 33-002-10-01 and has good regeneration of black spruce, tamarack and white pine seedlings. There is scattered large white pine, black spruce and tamarack that were retained during the harvests.
8	6122 - Black Spruce	Poletimber Medium	6.2	87	111-140	Maturing black spruce stand with tamarack and white pine scattered about. Tall black spruce (6 stick) with few dead trees in the stand. Some trace amounts of red pine, cedar, paper birch and red maple.
9	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	14.4	23	Immature	Stand was cut in 1995 under contract 33-034-92-01. Scattered large red and white pine along with all hemlock and cedar were retained. Some open lowland shrub patches.
10	6122 - Black Spruce	Poletimber Well	5.5	96	Unspecified	Canopy closer to 75% looks like a spruce bog. Healthy with variable heights. Larger diameter around perimeter where majority of pine is located.
11	4134 - Aspen, Spruce/Fir	Poletimber Well	174.2	43	Unspecified	North part of stand cut early 70's, south part of stand cut late 70's. Diverse mixture with some areas having more red maple/conifer and other areas being aspen/conifer. Spruce budworm noticed in parts of the stand with minimal defoliation at this time. Trace amounts of tamarack, black spruce, cedar, balm and ash. Large red pine on small ridge south end of stand.
14	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	16.4	93	Unspecified	Variable lowland with two dense patches of cedar. Some areas are more open with dense shrub and scattered cedar with ash. Trace amounts of paper birch and balsam.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	42340 - Upland Spruce/Fir	Sapling Poor	6.0	5	Immature	Stand cut in 2013 under contract 33-002-10-01 retaining large seed trees of spruce, maple, and ash. Tamarack seedlings along the edge. Balsam and spruce seedlings most noticeable out in the stand. Balm and maple sprouts present as well.
16	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	22.2	62	51-80	Stand was cut in 1994 under contract 33-034-92-01 removing all paper birch, aspen, balsam poplar and balsam fir. Variable density in the residual red maple with few scattered trees in the southern part of stand.
17	4134 - Aspen, Spruce/Fir	Poletimber Well	22.0	31	Immature	This stand was cut in 1987 under contract 33-021-86-01. Aspen dominated stand with a couple denser patches of spruce/fir. Minimal signs of Spruce Budworm defoliation and no mortality at this point.
18	4134 - Aspen, Spruce/Fir	Poletimber Well	51.1	41	Unspecified	Aspen stand reaching maturity next YOE. The spruce and fir does not show signs of SBW defoliation at this time. There is trace amounts of balm, birch, tamarack and pine.
19	6120 - Lowland Cedar	Sawtimber Well	20.4	130	Unspecified	This stand is variable density in cedar. Some areas have dense patches of cedar, other areas are black ash with cedar mixed in. In the south east part of the stand was a small patch of black spruce and tamarack that was cut in 2013 under contract 33-002-10-01. It is regeneration well with black spruce, tamarack and white pine. East of that patch is continuation of lowland containing sapling size black spruce and tamarack regenerated from the adjacent harvest in 1987.
20	4134 - Aspen, Spruce/Fir	Poletimber Well	62.6	32	Immature	Stand was cut in 1986 under contract 33-058-82-01. There is some scattered large white pine and hemlock that were retained from the harvest. There is a trace amount of cherry, red pine, tamarack and balm in the stand. SBW not noticed in the stand.
21	6129 - Mixed Coniferous Lowland Forest	Sapling Well	8.0	32	Immature	Stand was cut in 1986 under contract 33-058-82-01. Good regeneration with trees 20-30' tall. South end of stand is more lowland brush up against the private property with smaller dbh. Red pine located in northern perimeter of stand.
22	4112 - Maple, Beech, Cherry Association	Sawtimber Well	7.0	96	81-110	Stand was thinned in 2013 under contract 33-002-10-01. Better quality red maple stand for the area. Trace amounts of white ash, basswood, aspen and birch pole/log trees.
23	6120 - Lowland Cedar	Sawtimber Well	19.9	130	Unspecified	Irregular strips were cut in 1987 producing a two aged stand. Short lived species removed from these areas but mostly large diameter cedar west side being more upland with diameter getting smaller as progress to the east.
24	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	39.4	130	Unspecified	Strips were clear cut from this stand in 1967. Strips of cedar were retained but the short lived species removed within them. Smaller diameter in the regeneration then what would be expected for being cut 51 years ago.
25	6120 - Lowland Cedar	Sawtimber Poor	28.1	93	Unspecified	Stand was cut in 2013 under contract 33-002-10-01. Cedar, hemlock and a mix of seed trees were retained. Good regeneration taking place so far in the stand. Should be fully stocked next YOE.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	4134 - Aspen, Spruce/Fir	Poletimber Well	126.5	36	Unspecified	Stand was cut in 1079-84 under contract 50-79. Less dense aspen stand with full canopy. Two small historical grass openings in the north section of stand against private were dissolved into this stand because grown in. Trace amounts of birch, pine, hemlock and tamarack.
27	6120 - Lowland Cedar	Sawtimber Well	18.0	130	Unspecified	Larger diameter good quality cedar with other species mixed in. Trace of pine.
28	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	4.8	130	Unspecified	Stand cut in 2013 under contract 33-002-10-01 retaining cedar and some larger red maple. Open areas have good regeneration of aspen, balm, maple, spruce and fir.
29	6115 - Lowland Ash	Poletimber Poor	13.3	93	Unspecified	Low density stand of scattered trees in lowland brush containing a one acre patch of full stock cedar with trace amount of white pine, hemlock, birch, red pine, spruce and balsam.
30	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	9.6	130	Unspecified	Stand was cut in 2013 under contract 33-002-10-01 retaining cedar and canopy seed trees. Black spruce and white pine seedling already developing with some scattered tamarack seedlings as well. There is a trace of birch, ash, balsam, tamarack and hemlock.
31	6121 - Tamarack	Poletimber Poor	23.0	68	Unspecified	Low density tamarack and other species.
32	6120 - Lowland Cedar	Poletimber Well	48.8	130	Unspecified	Lower density cedar stand with brush and some seedlings. Cedar boughs are thinning with some dead trees mixed in. Trace amounts of birch, ash, and balsam.
33	6120 - Lowland Cedar	Sawtimber Well	5.9	117	Unspecified	Long narrow stand of large high quality cedar in transition from lowland to upland. Trace amounts of birch, balm, aspen, red maple and ash.
34	4134 - Aspen, Spruce/Fir	Poletimber Well	33.7	29	Immature	Stand was cut in 1989 under contract 33-024-88-01. This is an aspen stand with higher percentage of spruce/fir than most stands. Spruce budworm signs were not seen at this time.
35	6121 - Tamarack	Sapling Medium	33.3	45	Unspecified	There is three dense patches of tamarack, black spruce and white pine. Some trace amounts of cedar. Rest of stand is older tamarack and red maple in low density with thick tag alder. Almost appears like part of this stand was cut early 1900's.
37	4113 - R.Maple, Conifer	Sawtimber Well	19.0	89	111-140	Stand was thinned in 1997 under contract 33-002-96-01. Good, dense advanced regeneration. There is a trace of pine and beech.
38	6120 - Lowland Cedar	Sawtimber Well	13.2	130	111-140	Stand had some species thinned out in the past with cedar and hemlock being retained. Hemlock seems to be on slight upland where ash and cedar in lower areas. Red maple scattered about the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	4319 - Mixed Upland Forest	Sawtimber Well	22.3	89	51-80	Stand was cut in 1998 under contract 33-002-96-01. Retained was spruce, cedar, cherry, hemlock, pine and hardwood greater than 10"dbh. Average diameter takes in to account for regeneration.
40	4199 - Other Mixed Upland Deciduous	Poletimber Well	18.6	89	81-110	Poor quality red maple stand that had part of it thinned in 1998 under contract 33-002-96-01. The thinned area has larger diameter and somewhat of a better quality.
42	6115 - Lowland Ash	Sawtimber Medium	8.6	75	81-110	Creek meanders through this stand. Large ash and maple that look health. Over half of the stand is buffer to the creek.
43	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	28.5	101	51-80	Stand was thinned in 2003 under contract 33-036-00-01 producing a two aged stand with good regeneration and diversity.
44	42350 - Upland Hemlock	Sawtimber Well	17.7	128	Unspecified	Almost a pure hemlock stand. There are some white pine and other trace amounts of red maple, birch, cedar and ash.
45	6115 - Lowland Ash	Poletimber Poor	19.2	75	1-50	Stand was thinned to a basal area of 20-30 average square feet in 2003 under contract 33-036-01-01. Ash trees look healthy with no woodpecker activity or epicormic branching.
46	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	4.5	95	Unspecified	Transition area with mix of ash and conifer.
48	6127 - Lowland Pine	Sapling Well	4.5	20	Immature	Stand was cut in 1998 under contract 33-053-96-01. Regenerating back to lowland mixed conifer.
49	42210 - Natural Red Pine	Sawtimber Poor	10.6	108	1-50	Stand was thinned in 1998 under contract 33-053-96-01. Stand thinned again in 2013 under contract 33-002-10-01. Residual basal area is 10-30. Good regeneration that is 10' and some pushing 20'.
50	42290 - Natural Mixed Pine	Sawtimber Well	9.1	56	111-140	The east end of the stand is part of a red pine plantation that extends up into the private property. The plantation was thinned in 1998 and 2013. The west section of the stand is a mixed conifer containing mostly white pine.
51	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	7.3	128	Unspecified	Stand was cut in 1998 under contract 33-053-96-01 retaining cedar, hemlock and some large pine. Stand has balm, red maple, white pine, balsam with some aspen regeneration.
52	4136 - Aspen, Mixed Conifer	Poletimber Well	10.6	42	Unspecified	Stand was cut in 1976 with good regeneration of mixed species.
53	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	19.4	42	81-110	There is a slight upland to this stand in areas that support birch and maple. There is a strip of cedar/hemlock along the northern border of the stand. The south central has a patch of cedar. White pine regeneration prevalent in the slight upland area.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	26.6	57	1-50	Most of the trees are located on the slight higher ground with the rest mostly lowland brush. Trace amounts of birch and hemlock.
56	42210 - Natural Red Pine	Sawtimber Medium	38.4	108	111-140	North part of stand was thinned in 1998. Good regeneration of mixed conifers and some deciduous. There are large red and white pine creating a medium density overstory. There is trace amounts of cedar and hemlock.
57	6127 - Lowland Pine	Poletimber Medium	8.2	68	1-50	Looks like a small black spruce bog but the amount of pine indicates shallow organic layer with sand close to surface but wet enough for black spruce, Labrador tea and leatherleaf.
58	42290 - Natural Mixed Pine	Sapling Well	56.1	32	Immature	Stand was thinned in 1986 then most of overstory removed in 2002 under contract 33-039-00-01. Very thick pine regeneration with a mix of other species. Some scattered large pine trees. Trace amounts of birch, cedar and hemlock.
60	429 - Mixed Upland Conifers	Sapling Well	22.7	16	Immature	Stand was harvested in 2002 under contract 33-039-00-01. Hemlock, cedar and some large pine were retained. Thick mixed conifer stand with hemlock patches in low areas. Trace amounts of birch, aspen, and spruce.
61	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	61.5	140	81-110	Stand was thinned in 1998 under contract 33-053-96-01. Cedar, hemlock and pine were retained in the harvest. White pine, black spruce, balsam, and tamarack regeneration with ash in the northern part of the stand. There is phragmites growing in the more open areas of lowland brush/cedar.
62	6120 - Lowland Cedar	Sawtimber Well	23.3	116	201+	Tall, high quality cedar stand with a mix of other species where density over 200 basal area. Trace amount of black ash, paper birch and red maple.
63	4110 - Sugar Maple Association	Sawtimber Well	29.7	106	111-140	Stand was thinned in 2000 under contract 33-021-00-01. Nice hardwood stand containing mostly sugar maple with some trace amounts of beech, cedar and hemlock.
64	6120 - Lowland Cedar	Sawtimber Well	28.3	140	201+	Cedar is large diameter and tall. Overall, seems to be a healthy looking stand of cedar with some mixed conifer and trace amounts of birch, aspen, maple and pine. North end of stand had short lived species removed during the timber harvest in adjacent stand.
65	4136 - Aspen, Mixed Conifer	Poletimber Well	70.6	28	Immature	Stand was cut between 1988-1991 starting on the north end under contract 33-003-88-01. Hemlock, cedar and large white pine were retained. Good regeneration of aspen containing trace amounts of white pine, paper birch, beech and cherry.
67	6115 - Lowland Ash	Sapling Poor	10.5	30	Immature	Wet stand with perimeter containing tree species and center more of a lowland brush/grass. Majority of ash in the north end of stand along South Fox Road.



Stand	Cover Type	Acres	Managed Site	General Comments:
4	622 - Lowland Shrub	36.8	No	Lowland brush with scattered large conifer trees.
12	310 - Herbaceous Openland	1.2	No	Historically a grass opening but filling in with tree species.
13	310 - Herbaceous Openland	0.9	No	Historical grass opening filling in with tree species.
36	622 - Lowland Shrub	55.0	No	Lowland brush stand with some tamarack, cedar and paper birch
41	622 - Lowland Shrub	16.6	No	Small creek meandering through with old beaver activity.
47	622 - Lowland Shrub	3.4	No	Lowland brush area next to private property containing beaver flooding area.
54	622 - Lowland Shrub	11.2	No	Lowland brush area with some scattered maple.
59	622 - Lowland Shrub	11.1	No	Wet lowland brush area.
66	622 - Lowland Shrub	9.6	No	Lowland brush stand with some tamarack in from the perimeter and dead ones scattered out toward middle.