



# Compartment Review Presentation

## Escanaba Forest Management Unit

Compartment 33074

Entry Year 2020

Acreage: 1,546

County Delta

Management Area: Green Bay Lake Plain

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**Revision Date:** 2018-06-19

**Stand Examiner:** Dan Beaudou

**Legal Description:**

T37N-R24W, Sections 31, 32, 33

**Identified Planning Goals:**

This is a diversified compartment where 320 acres were obtained from Plum Creek containing a red pine plantation and some European larch. Majority of stands types are of lowland characteristics, with lowland cedar/conifer being the dominant. Some of the lowland ash stands are being recommended for treatment by clearcut with retention due to forest health issues with Emerald Ash Borer(EAB). Some of the ash stands will be held for diversity but may need to be addressed if EAB presence is determined. A white pine stand with advanced regeneration is recommended to have most of the overstory removed. A mature black ash stand will be restarted before mortality expands. This compartment has been actively harvested in the past and will continue to be treated to improve the overall growth and productivity of the forest resource.

**Soil and topography:**

Mostly lowground. Upland is level to gently rolling. Major soils found on the uplands are Rubicon, Roscommon, and Croswell sands. Lowground soils are Deford, Cathro and Carbondale mucks.

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

This compartment falls in a large block of State ownership that is about 4 miles wide and 25 miles long. Privately owned parcels break up the ownership within this area.

**Unique Natural Features:**

None known

**Archeological, Historical, and Cultural Features:**

None known sites

**Special Management Designations or Considerations:**

None known

**Watershed and Fisheries Considerations:**

Natural drainages and small creeks are within this compartment. The southwestern region of this compartment contains waterbodies which serves as headwater to Deer Creek. A 100' plus 5' per 1% increase in slope; buffer is recommended to protect Deer Creek riparian areas in accordance with Best Management Practices.

**Wildlife Habitat Considerations:**

Sixty-eight percent of this compartment is composed of wet, lowland cover types such as cedar/swamp conifer (45%), lowland poplar (12%), lowland brush (6%), and swamp hardwoods (5%). The lowland conifers provide important winter cover for wildlife and will be maintained in a closed canopy condition. Some ash stands will be treated due to forest health concerns, with anticipation of Emerald Ash Borer arrival.

**Mineral Resource and Development Concerns and/or Restrictions**

Compartment 74: Sections 31-33, T37N-R24W, Delta County

Active sand/gravel pits are not located in the area. 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. No economic oil and gas production has been found in the UP. Metallic mineral potential is considered low. There is no history of mineral leasing in this area. The state does not own all of the mineral rights within the compartment.

**Vehicle Access:**

The compartment can be accessed by the Limpert Road off M-35, the Deer Pond road from the Limpert Road down into the central part of the compartment and the Seven Mile Marsh Rd west of the compartment. Some areas can be access by permission through adjacent private property.

**Survey Needs:**

May need up to seven survey corners established for treatments.

**Recreational Facilities and Opportunities:**

The Forest Island ORV trail runs through the western part of the compartment linking up with the Deer Pond and Limpert Roads. Camping, hiking, hunting and trapping are some of the recreational activities along with wildlife viewing.

**Fire Protection:**

The timber types within this compartment are not prone to a large fire. If a fire should get started, access to most of the compartment is good, allowing initial attack to help keep fires small.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

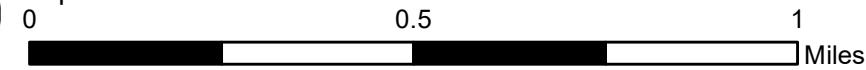
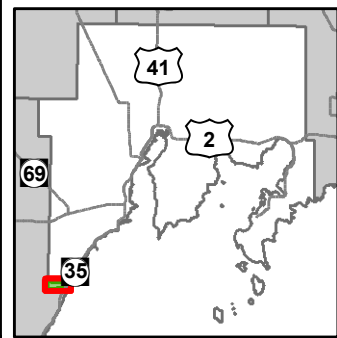
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

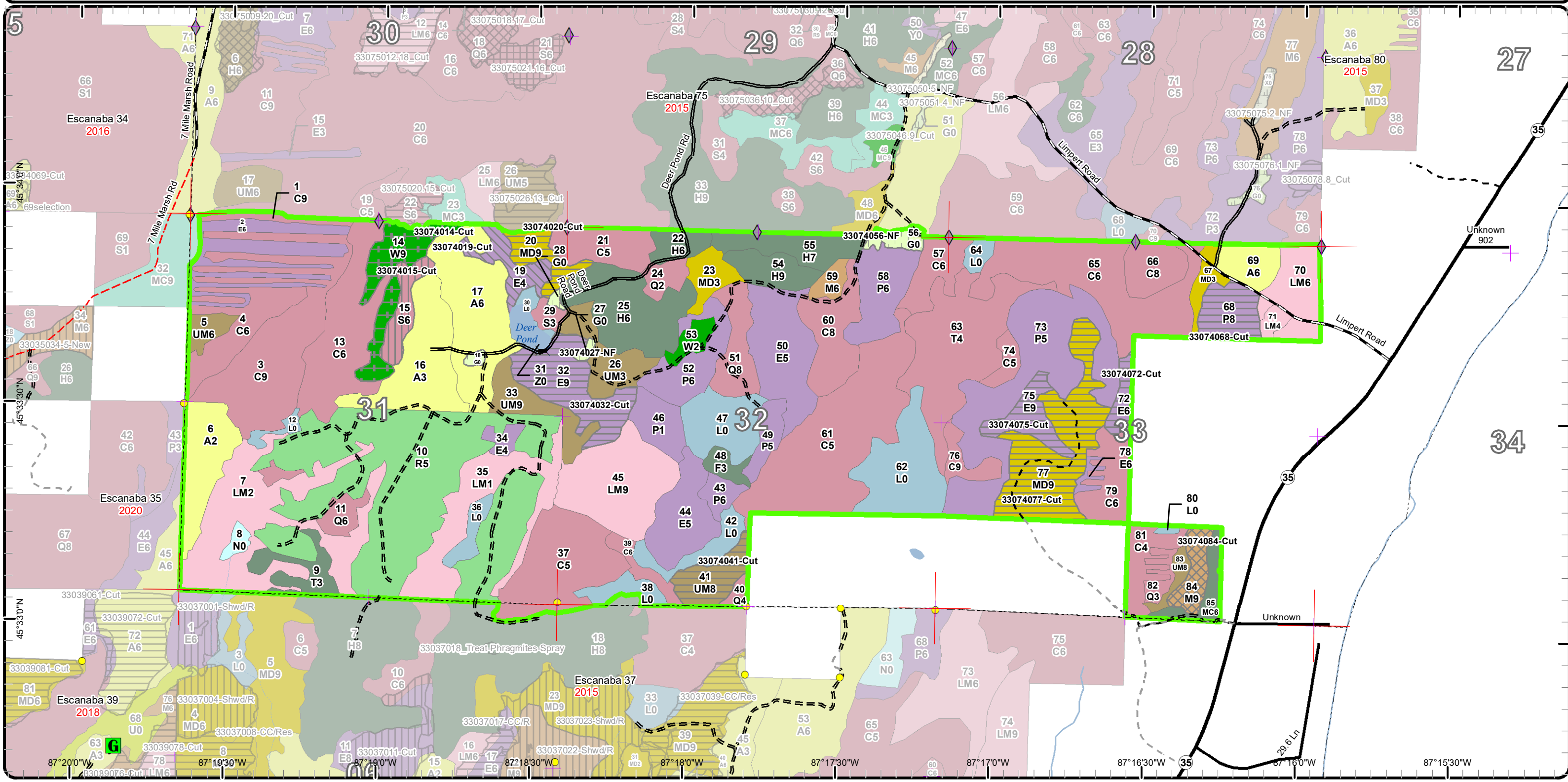
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 74  
 T37N - R24W Sec. 31-33  
 County: Delta  
 Unit: Escanaba  
 Mgmt Area: Green Bay Lake Plain  
 YOE: 2020  
 Acres: 1,546 GIS Calculated  
 Examiner: Dan Beaudou  
 Map Revised: 6/21/2018  
 Map Phase: Web-Post



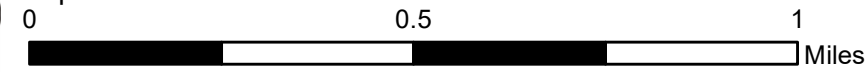
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- ▭ Compartment Boundary
- ▨ Other Harvest - See Comments
- ▩ Selection (Group, Single Tree)
- ▧ Clearcut (w/Reserves)
- ▦ Harvest, Overstory Removal
- ▥ Shelter Wood (w/Reserves)
- ▤ Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes



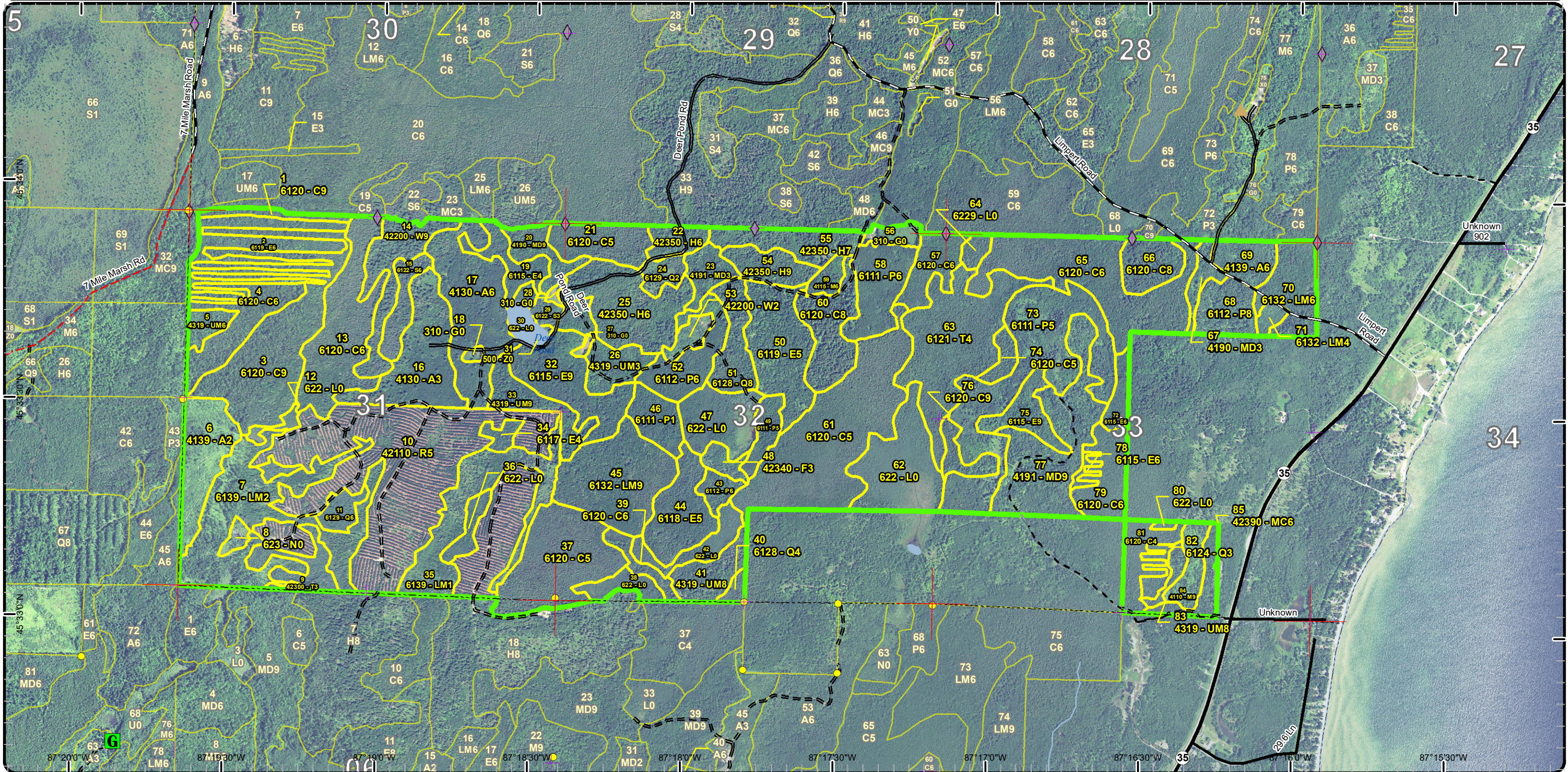


# Stand Boundary Map

Compartment: 74  
T37N - R24W Sec. 31-33  
County: Delta  
Unit: Escanaba  
Mgmt Area: Green Bay Lake Plain  
YOE: 2020  
Acres: 1,546 GIS Calculated  
Examiner: Dan Beaudou  
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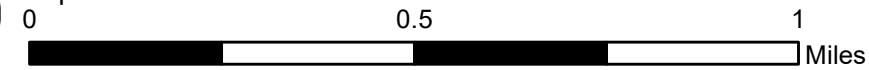
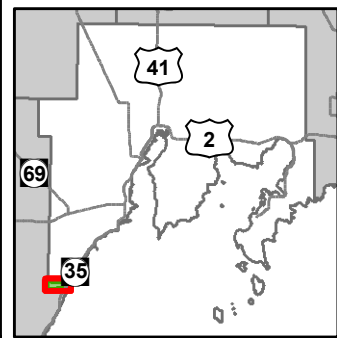
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Compartment Boundary
- Stand Boundaries
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest



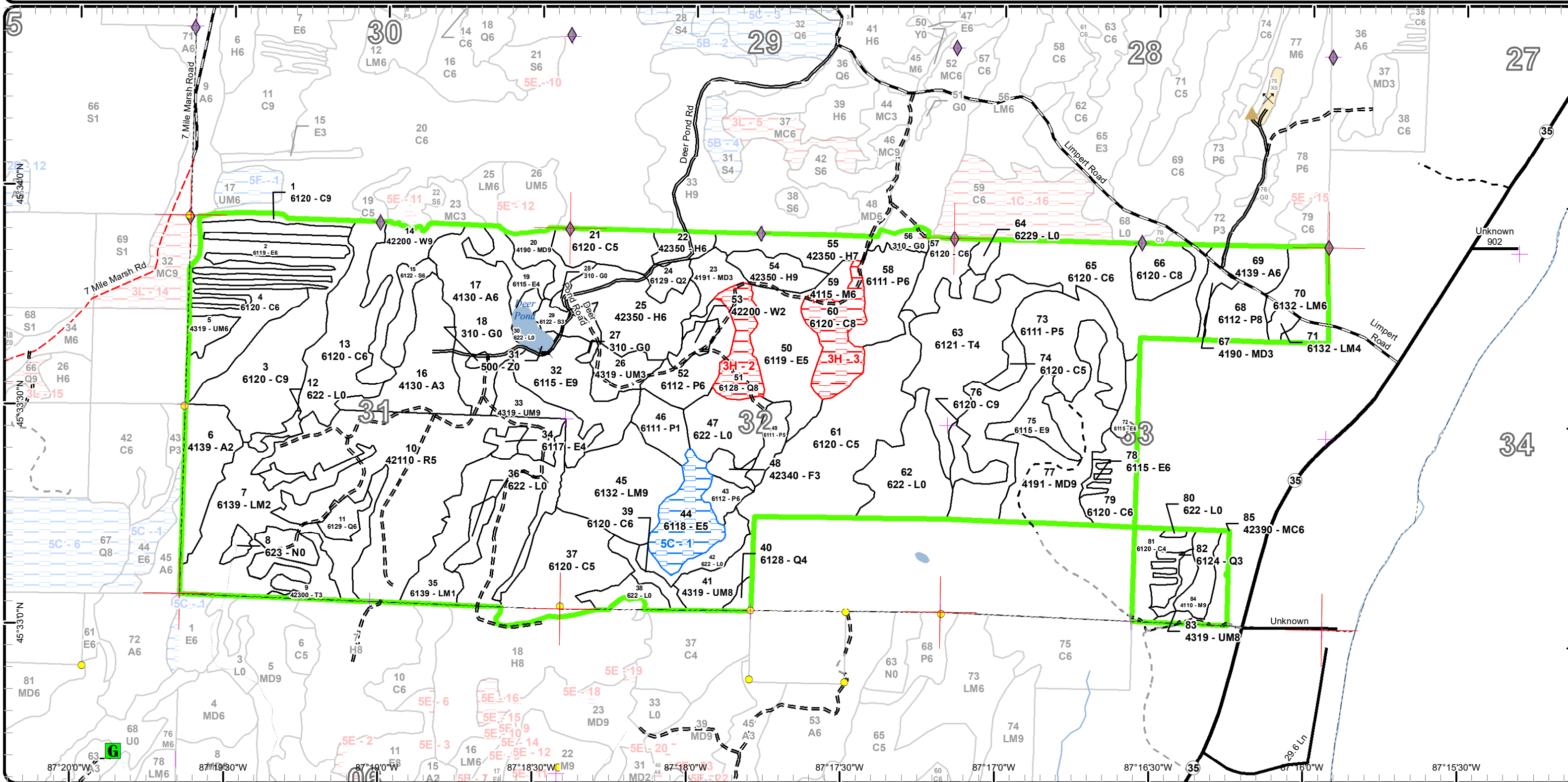


# Special Conservation Areas & Site Conditions Map

Compartment: 74  
 T37N - R24W Sec. 31-33  
 County: Delta  
 Unit: Escanaba  
 Mgmt Area: Green Bay Lake Plain  
 YOE: 2020  
 Acres: 1,546 GIS Calculated  
 Examiner: Dan Beaudo  
 Map Revised: 6/21/2018  
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries
- Sand or Gravel Pit



87°20'0"W 87°19'30"W 87°19'0"W 87°18'30"W 87°18'0"W 87°17'30"W 87°17'0"W 87°16'30"W 87°15'30"W  
 45°34'0"N 45°33'30"N 45°33'0"N 45°32'30"N 45°32'0"N

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	24	34	42	11	0	0	0	0	0	0	0	0	0	0	0	0	0	111
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	118	130	70	81	0	0	399
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	53	17	0	0	0	0	69
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	0	0	84	37	19	0	0	0	0	0	0	0	0	0	0	0	0	140
Lowland Conifers	0	0	6	8	0	4	0	0	0	0	0	0	16	3	0	0	0	0	36
Lowland Deciduous	0	0	35	0	28	2	0	0	46	11	0	0	22	0	0	0	0	0	143
Lowland Mixed Forest	0	35	0	0	0	0	0	0	0	0	0	0	62	0	0	0	0	60	157
Lowland Shrub	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
Lowland Spruce/Fir	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	10	0	0	13
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	0	15	0	45	0	0	0	0	10	0	0	0	0	0	0	0	70
Northern Hardwood	0	0	0	0	0	4	0	0	0	0	0	9	0	0	0	0	0	0	13
Red Pine	0	0	0	139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	139
Tamarack	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	51	62
Upland Conifers	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Mixed Forest	0	0	0	0	21	0	0	0	0	14	13	0	0	0	4	0	0	0	52
Upland Spruce/Fir	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	5	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	27
<b>Total</b>	<b>100</b>	<b>64</b>	<b>75</b>	<b>304</b>	<b>97</b>	<b>85</b>	<b>0</b>	<b>0</b>	<b>46</b>	<b>25</b>	<b>23</b>	<b>9</b>	<b>293</b>	<b>150</b>	<b>74</b>	<b>91</b>	<b>0</b>	<b>111</b>	<b>1544</b>



## Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 74

Total Compartment Acres: 1,546

Commercial Harvest - 179  
 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
Lowland Aspen/Balsam Poplar	14	0	0	0	0	0	0	0	0	14
Lowland Deciduous	46	0	0	0	0	0	0	0	11	57
Lowland Spruce/Fir	0	0	0	0	10	0	0	0	0	10
Mixed Upland Deciduous	55	0	0	0	0	0	0	0	0	55
Northern Hardwood	0	9	0	0	0	0	0	0	0	9
Upland Mixed Forest	13	0	0	0	0	0	0	0	0	13
White Pine	0	0	0	0	0	0	22	0	0	22
<b>Total</b>	<b>128</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>11</b>	<b>179</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	179	0	0	0	0	0	0	7	0	186
Next Step	0	0	0	0	0	0	147	0	0	147
<b>Total</b>	<b>179</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>147</b>	<b>0</b>	<b>7</b>	<b>333</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
14	33074014-Cut	21.6	42200 - Natural White Pine	Sawtimber Well	119	81-110	Harvest	Overstory Removal	42290 - Natural Mixed Pine	Uneven-Aged	Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Cut white pine greater than 6" dbh except leave some scattered xlog white pine and protect the advanced regeneration. Also, Cut all trees other than pine greater than 3" dbh except leave hemlock and cedar.  
Specs:

Next Step  
Treatments:

Acceptable Regen: Current regeneration of white pine and black spruce. Mix of other conifers and deciduous will regenerate with canopy opened up increasing sun for germination.

Other Comment: Good advanced regeneration of white pine and other species. Stand is over the 100 year silvicultural criteria for treatment. Scattered large white pine will provide roost and nesting as well as human aesthetics. Hemlock and cedar will provide upland bedding sites.

Proposed Start Date: 10/01/2019

15	33074015-Cut	9.7	6122 - Black Spruce	Poletimber Well	145	Unspecified	Harvest	Shelterwood	6122 - Black Spruce	Two-Aged	Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Cut all trees greater than 3" except leave hemlock. Only cut cedar for equipment operability where required; scale and deck separate with higher value on the cedar to discourage over removal.  
Specs:

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

Acceptable Regen: Black spruce, tamarack, white pine and eventually cedar

Other Comment: The spruce and cedar are growing mostly separate from each other with different growing conditions within the stand. Spruce areas will resemble a clear cut which will provide full sunlight for seed germination.

Proposed Start Date: 10/01/2019

18	33074018-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.  
Specs:

Next Step  
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2019

19	33074019-Cut	10.5	6115 - Lowland Ash	Poletimber Poor	83	1-50	Harvest	Other - Specify	611 - Lowland Deciduous Forest	Uneven-Aged	Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Cut all trees greater than 3" in the denser area of the stand that is adjacent to stand 20 treatment. Do not treat the area of low tree density and buffer the creek/drainage. Actual treatment area will be smaller than the stand size.  
Specs:

Next Step  
Treatments:

Acceptable Regen: Red maple, ash, birch, spruce

Other Comment: Removal of ash in dense areas to address forest health issues with EAB. This area contains most of the red maple as well. The buffer and untreated area of the stand will provide variable diameter trees to provide roosting, nesting, cavities and ash type foraging.

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
20	33074020-Cut	9.8	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	93	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Cut all trees 3" dbh and greater except leave hemlock, pine, and some scattered clumps of cedar.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, spruce, pine, ash, balsam, birch to produce mixed upland forest.

Regen:

Other Treatment of ash due to forest health recommendations with EAB. Small stand with residual hemlock, pine and cedar being the retention. Maple and Comment: ash should stump sprout with almost full sunlight. Large deciduous tree presence in adjacent stand 19 retention.

Proposed Start Date: 10/01/2019

27	33074027-NF	1.0	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 Specs: 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

28	33074028-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 Specs: 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

32	33074032-Cut	28.2	6115 - Lowland Ash	Sawtimber Well	79	Unspecified	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Two-Aged	Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Cut all trees greater than 3" dbh except leave hemlock, some large mixed species seed trees, and the buffer to creek/drainage from the Deer Pond. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, ash, spruce, fir, birch, pine

Regen:

Other The stand is mature and susceptible to Emerald Ash Borer (EAB). Stand treated due to maturity and forest health recommendations with EAB. The Comment: buffer and leave trees will provide large ash tree presence in the residual.

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
41	33074041-Cut	12.9	4319 - Mixed Upland Forest	Sawtimber Medium	93	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Proposal

**Habitat Cut:** No      **Site Condition:**

Prescription Cut all trees greater than 3" except leave some large diameter deciduous for seed and cavity.  
Specs:

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

Acceptable Regen: maple, spruce, birch, aspen, balm, tamarack, fir, cedar to produce mixed forest.

Other Comment: Over mature stand with mortality setting in on several species. No longer as dense at it's maximum healthy condition. Access may be difficult but with newer tracked equipment it will be able to in winter or dry summer.

Proposed Start Date: 10/01/2019

56	33074056-NF	4.7	310 - Herbaceous Openland	Nonstocked	0	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.  
Specs:

Next Step  
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2019

68	33074068-Cut	14.0	6112 - Lowland Aspen	Sawtimber Medium	49	Unspecified	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Proposal
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**Habitat Cut:** No      **Site Condition:**

Prescription Cut all trees greater than 3".  
Specs:

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

Acceptable Regen: aspen, balm, balsam, maple, spruce, ash

Other Comment: There is mortality in aspen/balm and will meet silvicultural criteria in one year from now so by 2020 will be of criteria. No retention because forest type continues onto private and will represent the parent stand.

Proposed Start Date: 10/01/2019

72	33074072-Cut	6.0	6115 - Lowland Ash	Poletimber Well	73	81-110	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	Proposal
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**Habitat Cut:** No      **Site Condition:**

Prescription Cut all trees greater than 3" dbh. Small stand not needing retention.  
Specs:

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

Acceptable Regen: balm, maple, ash, birch, spruce, and eventually cedar.

Other Comment: Harvest stand due to forest health recommendations addressing EAB. The forest type continues onto private providing large diameter E type trees. Treat while still merchantable.

Proposed Start Date: 10/01/2019





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
75	33074075-Cut	11.8	6115 - Lowland Ash	Sawtimber Well	73	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Two-Aged	Proposal

**Habitat Cut: No****Site Condition:**

Prescription Cut all trees greater than 3" dbh except leave some scattered large trees and denser area of cedar north end of stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventary)

Treatments:

Acceptable maple, ash, mixed conifer

Regen:

Other Harvest ash due to forest health recommendation addressing EAB. Patch of isolated cedar will provide cover, seed source and large deciduous tree  
Comment: presence.

Proposed Start Date: 10/01/2019

77	33074077-Cut	45.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	47	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Cut all trees greater than 3" except leave some healthy seed trees of different species scattered through the stand. Stand is long and narrow creating influence from adjacent stands.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventary)

Treatments:

Acceptable Aspen, balm, spruce, balsam, maple

Regen:

Other Variable diameter in aspen with the largest having conks. Large spruce showing signs of decline. Trace amounts of sugar maple and cedar. Stand  
Comment: will reach silvicultural criteria in 3 years which would coincide when treatment could be conducted. Aspen and spruce showing signs of decline and mortality.

Proposed Start Date: 10/01/2019

84	33074084-Cut	9.3	4110 - Sugar Maple Association	Sawtimber Well	104	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Selection thinning marking individual trees according to Compleat Marker leaving a basal area 40 - 60 square feet to promote regeneration.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventary)

Treatments:

Acceptable Maple, birch, ash

Regen:

Other Poor quality stand of northern hardwood. Open up canopy a little more than usual to try and promote regeneration. Rocky clay soils seeming wetter  
Comment: than most good northern hardwood stands.

Proposed Start Date: 10/01/2019

**Total Treatment  
Acreage Proposed: 187.1**

## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dan Beaudou : Examiner

Compartment: 74  
Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	3H
		With Condition	Not Available			
110	110	0	0	Aspen		
400	379	0	21	Cedar		21
69	69	0	0	Hemlock		
8	8	0	0	Herbaceous Openland		
140	140	0	0	Lowland Aspen/Balsam Poplar		
36	21	0	16	Lowland Conifers		16
144	122	22	0	Lowland Deciduous	22	
157	157	0	0	Lowland Mixed Forest		
88	88	0	0	Lowland Shrub		
13	13	0	0	Lowland Spruce/Fir		
3	3	0	0	Marsh		
70	70	0	0	Mixed Upland Deciduous		
14	14	0	0	Northern Hardwood		
139	139	0	0	Red Pine		
62	62	0	0	Tamarack		
8	8	0	0	Upland Conifers		
52	52	0	0	Upland Mixed Forest		
5	5	0	0	Upland Spruce/Fir		
1	1	0	0	Water		
27	27	0	0	White Pine		
1,546	1,487	22	37	Total Forested Acres	22	37
	96%	1%	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	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is a lower density E type with ash presence within the stand. Stand looks healthy so recommend delay harvest into the future.							



## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dan Beaudou : Examiner

Compartment: 74  
Year of Entry: 2020

2	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is comprised of about 75% cedar and hemlock. Large deciduous also provide roost and cavity trees to adjacent younger aged stands.							
3	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand had short lived species removed from it that are now regenerating in the sapling size class. Canopy is 80% cedar, 10% hemlock and 10% white pine.							

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

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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	6120 - Lowland Cedar	Sawtimber Well	4.9	124	171-200	North leave strip dominated by large cedar with some hemlock and other short lived species. Trace amounts of yellow birch, black ash, balsam poplar, white pine and balsam fir.
2	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	28.2	38	Unspecified	Strips that were cut in 1980. Good regeneration of lowland deciduous with some conifer component. Trace amounts of cherry and ash.
3	6120 - Lowland Cedar	Sawtimber Well	60.2	145	111-140	Stand has rolling low and upland producing larger diameter trees on the slight upland areas. Hemlock on the slight upland areas with better quality cedar. Lowland is mostly of lesser quality cedar. Trace amounts of ash and red maple.
4	6120 - Lowland Cedar	Poletimber Well	22.2	114	81-110	Variable diameter cedar with scattered tree species with black spruce being more prominent. Trace amounts of balsam poplar, balsam fir, ash, red maple and birch.
5	4319 - Mixed Upland Forest	Poletimber Well	5.6	38	51-80	Stand was cut in 1980. Thick regeneration with no Spruce Budworm observed in the stand.
6	4139 - Aspen, Mixed Deciduous	Sapling Medium	23.5	8	Immature	Property was acquired from Plum Creek Timberlands in 2011. This stand was harvested in 2010-2011. Most of stand filling in with aspen or balm depending on soil moisture. Cedar and 3-4" balsam and spruce are residual of the harvest.
7	6139 - Mixed Lowland Forest	Sapling Medium	60.0	8	Immature	Property was acquired from Plum Creek Timberlands in 2011. Stand was harvested in 2010 with cedar and 20-30' tall trees retained in strips between harvester trails. Trace amounts of white pine and hemlock.
9	42300 - Planted Larch	Sapling Well	11.4	23	Immature	Property acquired from Plum Creek Timberlands in 2011. Larch and a small upland ridge was planted in 1995. Other species naturally seeding in.
10	42110 - Planted Red Pine	Poletimber Medium	139.4	23	51-80	This stand was trenched and planted in 1995. Property was acquired from Plum Creek Timberlands in 2011. Weyerhaeuser, acquired Plum Creek Timberlands, conducted the first thinning of this stand in 2016 before timber rights expired on 1/1/2017. The thinning specifications were negotiated and changed from (removal of every third row and 1 of 4 trees in the residual rows) to (remove 2 rows and leave 2 rows) due to the width between rows being narrow for the current harvesting equipment. There is a trace amount of other species including balsam fir, spruce, birch, balsam poplar, aspen, maple with some scattered small lowland brush patches.
11	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	8.2	23	Immature	Property was acquired from Plum Creek Timberlands in 2011. This stand was planted in 1995 with European Larch. Natural regeneration has also taken place with other species such as tamarack, white pine, black spruce, balsam fir, balsam poplar and red pine.
13	6120 - Lowland Cedar	Poletimber Well	39.6	114	Unspecified	Poor quality cedar with some areas having ash and others black spruce. Some scattered upland humps with better quality and mix on trace species. Trace amounts of red maple, paper birch and balsam.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	42200 - Natural White Pine	Sawtimber Well	21.6	119	81-110	Stand had a partial harvest in 1994 under contract 33-19-91-01 (Deer Pond sale). Currently, stand is made up of large white pine, spruce, cedar, some hemlock and trace amounts of red maple, balsam tamarack and ash. There is also good white pine advanced regeneration 10-30' tall. ORV trail goes through the stand.
15	6122 - Black Spruce	Poletimber Well	9.7	145	Unspecified	Black spruce concentration varies through out the stand. Some areas is more open with cedar, brush and few black spruce. Most of the tamarack is with the more dense areas of black spruce. Some scattered white pine with trace amounts of maple and birch.
16	4130 - Aspen	Sapling Well	33.8	15	Immature	This stand was harvested under contract number 33-008-00-01 (Deer Pond Sale). South half was cut during the spring of 2001 and the north half was cut during the spring of 2003. Large white pine and cedar were retained. There is both black and white spruce regeneration in with good dense aspen.
17	4130 - Aspen	Poletimber Well	41.8	29	Immature	Stand was cut in 1989 retaining some large diameter white pine. Good dense pole sized aspen with some other species mixed in. Trace amounts of hemlock and cherry.
19	6115 - Lowland Ash	Poletimber Poor	10.5	83	1-50	Scattered lowland deciduous with dense shrubs. Trace amount of birch and spruce. Creek/drainage flows through west and center of stand.
20	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	9.8	93	111-140	Slight upland stand containing mostly red maple. There is a trace amount of white pine and hemlock.
21	6120 - Lowland Cedar	Poletimber Medium	16.4	114	Unspecified	Low density cedar stand with areas of shrub and ash. Does not look like this stand provides much thermal cover. Trace amounts of white pine and paper birch.
22	42350 - Upland Hemlock	Poletimber Well	7.3	119	Unspecified	Stand of hemlock with some white pine. A couple small lowland brush pockets. There is a variable diameter in the hemlock but white pine pretty much all large diameter. Trace amounts of paper birch, red maple, balsam poplar, black spruce and cedar.
23	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	8.7	23	Immature	Stand was cut in 1995 retaining cedar and hemlock. Good stocking of lowland deciduous. Many of the retained cedars got wind thrown laying on ground. Balm has a variable diameter. Trace of spruce and cherry.
24	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	5.8	14	Immature	This stand was harvested during the spring of 2003 under contract number 33-008-00-01 (Deer Pond Sale). Pine and spruce seed trees were left.
25	42350 - Upland Hemlock	Poletimber Well	33.9	118	Unspecified	Hemlock dominated stand with patches of red maple regeneration from timber harvest. There is some small lowland brush patches scattered within the stand. Mostly open in the understory giving the "park like" look.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	4319 - Mixed Upland Forest	Sapling Well	15.8	33	Immature	This stand was treated in 1982. Hilly stand with some lowland pockets. Open areas previously reported are filling in with dense regeneration.
29	6122 - Black Spruce	Sapling Well	3.4	48	Unspecified	Stand was cut in 1970. There is thick black spruce regeneration with a variety of white pine diameter trees. Trace amounts of aspen, cedar and paper birch.
32	6115 - Lowland Ash	Sawtimber Well	28.2	79	Unspecified	Lowland deciduous dominated by ash. Red maple more dense and larger on upland transitions. Scattered cedar and spruce throughout the stand. Small creek from Deer Pond runs through the stand. Trace of hemlock and white pine.
33	4319 - Mixed Upland Forest	Sawtimber Well	14.2	83	111-140	Stand had been thinned. Variable diameter within species. Diverse and appears to be healthy stand. Hold for diversity due to treating adjacent stand.
34	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	3.7	19	Immature	Property acquired from Plum Creek Timberlands in 2011. This stand has some European Larch planted around boarder with other species interior.
35	6139 - Mixed Lowland Forest	Sapling Poor	34.7	7	Immature	Property was acquired from Plum Creek Timberlands in 2011. Stand was harvested just prior to the transaction with cedar, hemlock and a mix of other species retained.
37	6120 - Lowland Cedar	Poletimber Medium	40.3	126	Unspecified	West part of the stand was acquired from Plum Creek Timberlands in 2011. Less dense cedar with some other species mixed in.
39	6120 - Lowland Cedar	Poletimber Well	5.7	114	Unspecified	Strip of cedar with slight upland to it so better quality than surrounding cedar. North end has small ridge. Trace of tamarack, balsam, ash, red maple and white pine.
40	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	2.5	128	Unspecified	Low density trees with cedar clumps surrounded by lowland brush.
41	4319 - Mixed Upland Forest	Sawtimber Medium	12.9	93	81-110	Over mature stand that has hard access. Most balsam and about half of the spruce are dead on the ground. Birch also showing mortality. Regeneration occurring in the open areas. Trace of aspen, balm, ash and tamarack.
43	6112 - Lowland Aspen	Poletimber Well	5.2	43	Unspecified	Mixed stand of size and age. Slight upland produced the aspen with the lowland containing ash and balm mixed in. Some scattered large spruce trees that may have been seed trees if stand was cut.
44	6118 - Lowland Deciduous with Cedar	Poletimber Medium	22.1	119	Unspecified	Mixed lowland deciduous with cedar. Seasonally wet stand with low volume. Trace of tamarack and aspen.
45	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	39.4	119	Unspecified	Mixed stand of cedar and lowland deciduous producing little thermal cover.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	6111 - Lowland Balsam Poplar	Sapling Poor	11.4	30	Immature	This stand created probably from beaver flooding and this was part of the food source. There is beaver ditches headed into the regeneration.
48	42340 - Upland Spruce/Fir	Sapling Well	4.7	20	Immature	This is a mixed aspen/spruce/fir stand that part is regenerating from beaver cutting and part was not cut with adjacent stand to north east. Most of the large aspen either fell over, still standing with cavities, or few alive but not very healthy looking. Seedling and saplings are growing up in the whole stand at pretty much the same age.
49	6111 - Lowland Balsam Poplar	Poletimber Medium	7.5	36	Unspecified	Stand was cut in 1982. Good regeneration of lowland deciduous.
50	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	31.2	15	Immature	This stand was harvested during the winter of 2002-2003 under contract number 33-013-00-01 (Wacky Wednesday). Some smaller diameter cedar was retained with good deciduous regeneration.
51	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	15.5	119	Unspecified	This stand is retention from timber sale that harvested the rest of the stand leaving this cedar dominated patch. Trace amounts of yellow birch, paper birch, green ash and spruce.
52	6112 - Lowland Aspen	Poletimber Well	18.1	39	Unspecified	Stand was harvested in 1979. Good regeneration and high density pole stand. Trace amount of cherry and yellow birch.
53	42200 - Natural White Pine	Sapling Medium	5.1	8	Immature	Looks like this was a bulldozed opening due to mounds along edge of stand. White Pine has seeded in with heights up to 20' tall and bushy.
54	42350 - Upland Hemlock	Sawtimber Well	11.6	119	Unspecified	Stand was treated under contract 33-13-00-01(Wacky Wednesday). "Park like" look to this stand of hemlock with scattered big white pine.
55	42350 - Upland Hemlock	Sawtimber Poor	16.5	128	Unspecified	Stand was thinned leaving hemlock and some cedar. Where the maple was cut out there is thick stump sprouting with 2-4" dbh. Trace of birch and ash.
57	6120 - Lowland Cedar	Poletimber Well	13.1	120	Unspecified	Poor quality cedar/ash stand. Trace of paper birch
58	6111 - Lowland Balsam Poplar	Poletimber Well	20.6	28	Immature	Stand was harvested in 1990 (Pikes Peak Sale). Good regeneration of balm and mixed species. Trace of cedar.
59	4115 - Y.Birch, Hemlock NH	Poletimber Well	4.4	43	51-80	Pole sized red maple with a mix of other species. Trace of green ash and yellow birch.
60	6120 - Lowland Cedar	Sawtimber Medium	21.4	148	Unspecified	Stand was harvested in 1990 having small diameter cedar and short lived species removed. Large cedar remain with open areas of balm and red maple saplings.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	6120 - Lowland Cedar	Poletimber Medium	70.0	130	Unspecified	Mixed swamp stand containing mostly cedar but some areas more open.
63	6121 - Tamarack	Poletimber Poor	51.0	43	Unspecified	Lowland brush with scattered trees to make it a low density treed stand. Areas of tamarack regeneration more prevalent. About a 1 acre fenced area in the north center finger accessed from the grass opening stand 56. There is also 4' square post outside of fence to south east side that are in a regular pattern with metal numbered tags on them. No trees noticed by these posts if they were to mark trees planted outside the fence. This fenced in area was supposedly set aside as a cedar research area for MSU and DNR. "The area was treated with an American Ranger, limed and enclosure put in."
65	6120 - Lowland Cedar	Poletimber Well	52.2	120	Unspecified	Variable quality wet stand.
66	6120 - Lowland Cedar	Sawtimber Medium	12.8	120	Unspecified	Stand was treated in 1994 (limpert road balm). Some large diameter red maple were retained along with the cedar. Trace of paper birch as well.
67	4190 - Mixed Upland Deciduous with Cedar	Sapling Well	5.9	24	Immature	Stand was cut in 1987 retaining cedar. Mixed regeneration in the open areas.
68	6112 - Lowland Aspen	Sawtimber Medium	14.0	49	Unspecified	The balm and aspen are dying out. One year to silvicultural criteria is met for treatment. May be a poorer site causing early mortality.
69	4139 - Aspen, Mixed Deciduous	Poletimber Well	10.6	33	Immature	Stand was treated in 1985. Good stocking of mixed species with majority being aspen. Trace of cedar.
70	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	19.4	114	Unspecified	Northern part of stand is wetter with more ash. Southern part of stand around the Limpert Road is slight upland with better quality trees.
71	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	3.1	114	Unspecified	This is a wet drainage where cedar is dying out. Small diameter lowland deciduous with tag and other shrubs.
72	6115 - Lowland Ash	Poletimber Well	6.0	73	81-110	Lowland ash dominated stand. Treat due to forest health issues with emerald ash borer. This stand type continues on to private land containing a larger size of the lowland deciduous trees. Trace of yellow birch.
73	6111 - Lowland Balsam Poplar	Poletimber Medium	62.9	25	Immature	Stand was cut in 1993 under permit 33-37-90-01 (Borderline sale). Some open areas with little regeneration producing canopy closure closer to 75%. Areas of regeneration are of good stocking levels. Open areas seem to be slowly seeding in. Trace of cherry, cedar, balsam and tamarack.
74	6120 - Lowland Cedar	Poletimber Medium	4.8	114	Unspecified	Patches of cedar with open areas filling in with other species.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
75	6115 - Lowland Ash	Sawtimber Well	11.8	73	81-110	Large diameter lowland deciduous trees. This stand will meet silvicultural criteria in 7 years. Due to forest health recommendations with Emerald Ash Borer approaching, treat stand while still healthy. Trace of spruce and fir.
76	6120 - Lowland Cedar	Sawtimber Well	6.8	124	Unspecified	Cedar with large diameter red maple and green ash scattered within the cedar on the more upland areas. Trace of yellow birch.
77	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	45.2	47	51-80	Variable diameter in aspen with the largest having conks. Large spruce showing signs of decline. Trace amounts of sugar maple and cedar. Stand will reach silvicultural criteria in 3 years which would coincide when treatment could be conducted. Aspen and spruce showing signs of decline and mortality.
78	6115 - Lowland Ash	Poletimber Well	2.1	49	Unspecified	Strips that were cut in 1969 out of the poor quality cedar stand.
79	6120 - Lowland Cedar	Poletimber Well	16.6	114	Unspecified	Smaller diameter, poor quality, wet cedar stand with other species mixed in. Strips have been cut on the west side. Trace of red maple and balsam.
81	6120 - Lowland Cedar	Poletimber Poor	13.0	114	Unspecified	Poor quality, not much canopy left in the cedar. Trees look half dead. Trace of other trees species.
82	6124 - Lowland Spruce- Fir	Sapling Well	4.4	49	Unspecified	Stand was cut in 1969. Thick mixed regeneration but still in sapling with some pole sized trees.
83	4319 - Mixed Upland Forest	Sawtimber Medium	3.6	135	81-110	Cedar and hemlock with patches of sugar maple. The open areas contain thick balsam fir seedlings with scattered aspen. Trace of yellow birch. This is the west slope of the ridge with the east part of the stand on top of the ridge containing more cedar than the adjacent hardwood stand to east.
84	4110 - Sugar Maple Association	Sawtimber Well	9.3	104	111-140	Sugar maple is poor quality. Ash is nice. Porcupine damage is occurring throughout the stand. Rocky soils. Trace of hemlock and paper birch.
85	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	8.3	49	51-80	Stand cut in 1969. Cedar and hemlock were retained. Mixed regeneration occurred with a variable diameter in aspen. Some large mature aspen along the east private line that will provide winter budding for wildlife. Other areas dense balsam with some mortality most likely due to natural thinning. There may be trespass issues along the east line with private building encroachment but was not able to fine the south section corner. May need land survey to stake out encroachment if have not done already.



Stand	Cover Type	Acres	Managed Site	General Comments:
8	623 - Emergent Wetland	2.7	No	Property acquired from Plum Creek Timberlands in 2011. This is an old beaver flooding area with the dam forming a small pond fluctuating in size.
12	622 - Lowland Shrub	2.7	No	Property acquired from Plum Creek Timberlands in 2011. This is a lowland brush stand with some open water and cattails present.
18	310 - Herbaceous Openland	1.2	Yes	A grass opening with 2 large white pine with more around the perimeter. Last YOE notes: As a cooperative project with a local sportsmen club, this opening will be planted into a wildlife mix if funds and personnel are available. W33663 - Pesticide Use Evaluation Report 05/21/2010. Planted in August of 2010. This FTP will require annual frost-seeding, fertilizing, and mowing. FTP completion report - 10/25/10. Met specifications. Heavy deer browse. 04/07/11 - Frost-seeded with red clover. 05/24/11 - fertilized with 0-14-42.
27	310 - Herbaceous Openland	1.0	Yes	Previous YOE notes: As a cooperative project with a local sportsmen club, this opening will be planted into a wildlife mix if funds and personnel are available. W33663 - Pesticide Use Evaluation Report 05/21/2010. Planted in August of 2010. This FTP will require annual frost-seeding, fertilizing, and mowing. FTP completion report - 10/25/10. It will take a few years to establish this wildlife opening due to the poorer soils and heavy deer browse. 04/07/11 - Frost-seeded with turf rye and field oats. 05/24/11 - fertilized with 19-19-19.
28	310 - Herbaceous Openland	1.2	Yes	Previous YOE notes: As a cooperative project with a local sportsmen club, this opening will be planted into a wildlife mix if funds and personnel are available. W33663 - Pesticide Use Evaluation Report 05/21/2010. Planted in August of 2010. This FTP will require annual frost-seeding, fertilizing, and mowing. FTP completion report - 10/25/10. It will take a few years to establish this wildlife opening due to the poorer soils and heavy deer browse. 04/07/11 - Frost-seeded with turf rye and field oats. 05/24/11 - fertilized with 19-19-19.
30	622 - Lowland Shrub	6.4	No	Lowland brush surrounding intermittent water ponding.
31	500 - Water	0.7	No	The "Deer Pond" size is dependent upon seasonal precipitation. Grasses and shrubs surround the edge and the amount increases as the water edge recedes during dry summer.
36	622 - Lowland Shrub	5.7	No	Majority of this stand is wet lowland shrub with grass/sedge. Some scattered tamarack, red maple and ash.
38	622 - Lowland Shrub	7.1	No	Thick lowland brush with some scattered trees. Drainage flowing through the center of the stand.
42	622 - Lowland Shrub	10.2	No	Scattered trace C,T,S. mostly lowland brush made up of tag alder and holly. Wet drainage.
47	622 - Lowland Shrub	20.3	No	Old, old beaver dam that appears like it was quite large in it's time. Created a large impoundment that is now growing up in brush. Seasonal water pooling just above the dam.



Stand	Cover Type	Acres	Managed Site	General Comments:
56	310 - Herbaceous Openland	4.7	Yes	West side of stand is a sand hill. Appears like the stand was cleared with dozer in the past due to pushup mounds around the perimeter. Currently growing up with willow and other shrubs.
62	622 - Lowland Shrub	31.6	No	Lowland brush area containing mixed tress around perimeter. Creek flows through stand with past beaver activity on private causing water to back up producing a flooding that in the past had been reported at a water stand. Currently just the creek flowing through the stand.
64	6229 - Mixed lowland shrub	3.5	No	Low density treed stand.
80	622 - Lowland Shrub	0.9	No	Lowland brush with scattered trees.