Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 122
Entry Year 2015
Acreage: 1,814
County Mackinac
Management Area: Mackinac Mix

Revision Date: 07/08/2013

Stand Examiner: Matthew Edison

Legal Description:

T43N-R6W, Section 30 & T43N-R7W, Sections 24 & 25

Identified Planning Goals:

Compartment 122 is located approximately 3 miles northeast of Epoufette and Highway U.S. 2. The only proposed management in this compartment this entry is a Shelterwood-seed Tree cut in a mature White Pine stand. There is very limited access to most of this compartment and cover types are predominantly wetland and lowland cover types with intermittent ridges.

Soil and topography:

The predominant topography of the compartment is flat lowland with some intermittent ridges. The soil type dominating the entire compartment is Markey-Carbondale muck. The few ridges in section 25 are Pullup sand and the remaining ridges and upland stands of section 24 are Wallace sands.

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

There is 80 acres of private ownership (NWSW, NESW of section 24) connecting with private lands to the west. There is no development on this property. The remainder of the compartment is consisted of and is surrounded by State owned land.

Unique Natural Features:

There is a potential for rare threatened or endangered plant and animal species within the compartment. Any management will be per work instructions and guidelines for the species found.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

The headwaters of Paquin Creek and The Little Brevort River are in this compartment.

Watershed and Fisheries Considerations:

This compartment contains a reach of the Little Brevoort River. Previous surveys have captured brook trout, brown trout, central mudminnow, creek chub, northern pike, sculpins, and American brook lamprey. This compartment also contains a stream reach in the upper Paquin Creek. Paquin Creek is a cold-water stream that supports stream-resident fish community of brook trout, pearl dace, slimy sculpin, central mudminnow, brook stickleback. Paquin Creek is also important that is supports natural reproduction of Lake Michigan adfluvial fishes such as steelhead, Chinook salmon, and coho salmon. Implementation of BMP's that will aid in preventing sediment input from road crossings and upland areas are critically important to protect spawning areas for trout and other stream-resident fishes. Buffering the river is also critical to ensure future inputs of woody material to the stream channel, discourage aspen regeneration close to the stream channel, and provide shading to protect water temperature from warming to a degree that will inhibit trout survival.

Wildlife Habitat Considerations:

This compartment lies within the Mackinac Mix Management Area. Cedar and lowland conifer swamp cover most of the compartment. These stands will be left to provide cover for wildlife like deer, bear, bobcat, snowshoe hare and other species. A few stands in higher settings contain birch, aspen, and white pine. White pine will be encouraged in one stand, and young early successional growth will also be promoted. This will benefit species including ruffed grouse, deer, woodcock, and black bear. Other species benefitting from the plans for this compartment include, but are not limited to coyote, beaver, otter, mink, eagle, osprey, common yellowthroat, yellow warbler, and various other species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and minor peat and muck. There is insufficient data to determine the glacial drift thickness. The Silurian Engadine Group subcrops below the glacial drift. The Engadine is

quarried for stone/limestone eight miles to the northeast. Gravel pits are not located in the area and potential appears to be very limited. There is no economic oil and gas production in the UP.

Vehicle Access:

There is very poor vehicle access into this compartment. The Bennett Road (poor dirt) is the only road that enters the compartment. Bennett Road just cuts across the very corner of the NWNW of section 24. The road turns back and re-enters the compartment passing through NENE Section 24 before leaving the compartment again. During wet seasons Bennett road may become impassable without, or even with four-wheel drive vehicles. Access to the interior of the compartment is non-existent.

Survey Needs:

None

Recreational Facilities and Opportunities:

There are no developed recreation facilities within this compartment.

Fire Protection:

Given the topography and cover types throughout this stand, fire is of minimal overall concern. However, in the event of a fire the many isolated ridges would make initial attack difficult at best. Lightning would be the most probable ignition source for most of the remote areas. In the case of a fire, water sources are available along Bennett Road at two different bridge locations. Fires in this compartment could be expected to be mop-up intensive due to the thick organic soils that dominate.

Additional Compartment Information:

None

The following reports from the Inventory are attached:

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

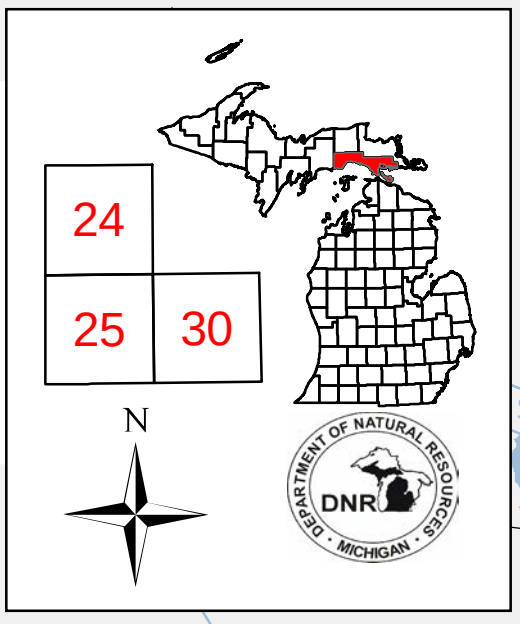
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatment Map

Compartment: 122
T43N R06W Sections 30
T43N R07W Sections 24, 25
County: Mackinac
Unit: Sault Ste. Marie
YOE: 2015
Acres: 1,814 GIS Calculated
Examiner: Matthew Edison
Map Revised: 06/17/2014
Map Phase: Post-Review

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



Legend

- Miris Corners
- Remonumented Section Corners
- Survey Grade
- PLSS Corner
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Motorcycle (DNR Sticker)
- Snowmobile Trail
- Stream
- Lakes and Rivers
- State Forest Land

Treatments Post Review
- Seed Tree (w/Reserves)

Forest Stands
Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands
Level 3
- 500 - Water
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland

1 4112-M6
2 6120-C5
3 500-Z0
4 629-L0
5 6129-Q5
6 4191-MD3
7 6128-Q6
8 629-L0
9 429-MC9
10 6122-S5
11 6120-C6
12 629-L0
13 629-L0
14 6124-Q3
15 4220-W9
16 6117-E5
17 6124-Q6
18 6120-C6
19 629-L0
20 4220-W6
21 629-L0
22 629-L0
23 4134-A6
24 6117-E6
25 629-L0
26 629-L0
27 6130-LM5
28 6129-Q5
29 6120-C6
30 6120-C2
31 629-L0
32 500-Z0
33 500-Z0
34 629-L0
35 500-Z0
36 623-N0
37 4319-UM6
38 500-Z0
39 500-Z0
40 4319-UM3
41 500-Z0

24
25
30

Caffey Truck Trl
Bennett Trl
Dells Mills Rd
Brevoort River Rd
Paquin Creek
Little Brevoort River

85°8'0"W
85°7'0"W
85°6'0"W
46°8'0"N
46°7'0"N
46°6'0"N
46°5'0"N

1 0.5 0 1 Miles

Stand Boundary Map

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T43N R07W Sections 24, 25
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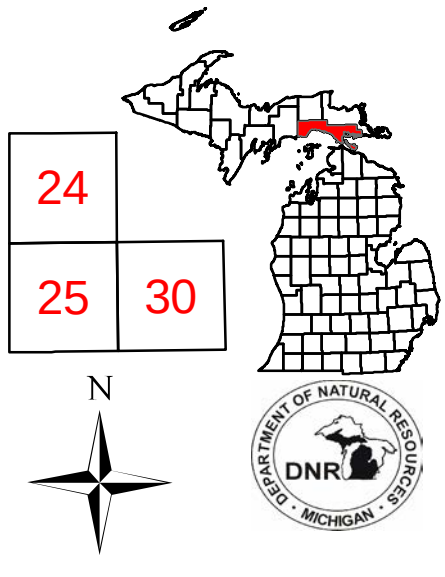

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10 6122-S5
11 6120-C6
12 629-L0
13 629-L0
14 6124-Q3
15 4220-W9
16 6117-E5
17 6124-Q6
18 6120-C6
19 629-L0
20 4220-W6
21 629-L0
22 629-L0
23 4134-A6
24 6117-E6
25 629-L0
26 629-L0
27 6130-LM5
28 6129-Q5
29 6120-C6
30 6120-C2
31 629-L0
32 500-Z0
33 500-Z0
34 629-L0
35 500-Z0
36 623-N0
37 4319-UM6
38 500-Z0
39 500-Z0
40 4319-UM3
41 500-Z0

24
25
30

Paquin Creek
Little Brevoort River
Bennett Trl
Dells Mills Rd
Brevoort River Rd

1 0.5 0 1 Miles

85°8'0"W 85°7'0"W 85°6'0"W
46°9'49"N 46°7'0"N

Special Conservation Areas & Site Conditions Map

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T43N R06W Sections 30
T43N R07W Sections 24, 25
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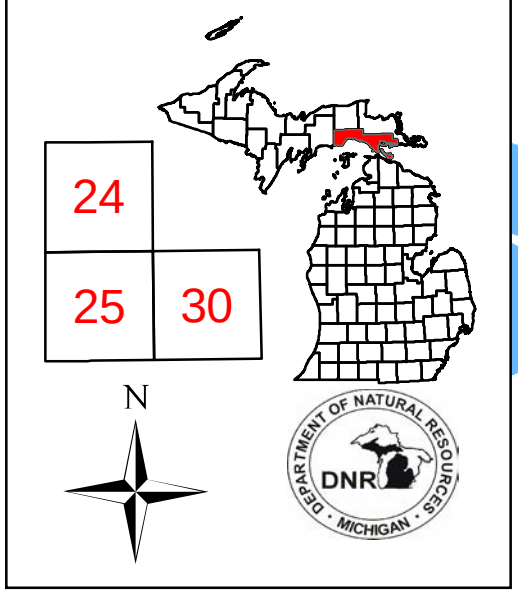

Legend

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- Stand Boundaries

Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)

Site Condition Type
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

Proposed SCA's
- SCA Removal

Dedicated Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

1 **4112**-M6
2 **6120**-C5
3 **500**-Z0
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5 **6129**-Q5
6 **4191**-MD3
7 **6128**-Q6
8 **629**-L0
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10 **6122**-S5
11 **6120**-C6
12 **629**-L0
13 **629**-L0
14 **6124**-Q3
15 **4220**-W9
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22 **629**-L0
23 **4134**-A6
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26 **629**-L0
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32 **500**-Z0
33 **500**-Z0
34 **629**-L0
35 **500**-Z0
36 **623**-N0
37 **4319**-UM6
38 **500**-Z0
39 **500**-Z0
40 **4319**-UM3
41 **500**-Z0

24
25
30
2H - 001
Comp 122 POG

1 0.5 0 1 Miles

85°8'0"W
85°7'0"W
85°6'0"W
46°8'0"N
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Cover Type & Treatment Map

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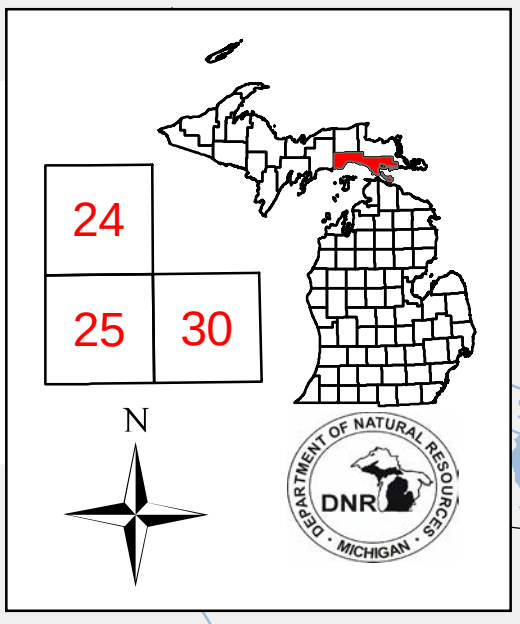

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8 **629**-L0
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22 **629**-L0
23 **4134**-A6
24 **6117**-E6
25 **629**-L0
26 **629**-L0
27 **6130**-LM5
28 **6129**-Q5
29 **6120**-C6
30 **6120**-C2
31 **629**-L0
32 **500**-Z0
33 **500**-Z0
34 **629**-L0
35 **500**-Z0
36 **623**-N0
37 **4319**-UM6
38 **500**-Z0
39 **500**-Z0
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41 **500**-Z0

24
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Caffey Truck Trl
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Dells Mills Rd
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85°8'0"W
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1 0.5 0 1 Miles

Report 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit **Compartment 122 Year of Entry 2015**

Matthew Edison : Examiner

Age Class

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +	Uneven Age	Total
Aspen	0	0	0	0	0	0	19	0	0	0	0	0	0	0	**19**
Cedar	0	0	0	0	0	0	33	0	0	168	848	220	0	0	**1269**
Lowland Conifers	0	0	0	0	0	11	44	0	48	0	0	0	0	0	**104**
Lowland Deciduous	0	0	0	0	0	0	0	18	0	0	0	0	0	0	**18**
Lowland Mixed Forest	0	0	0	0	15	0	0	0	0	0	0	0	0	0	**15**
Lowland Shrub	133	0	0	0	0	0	0	0	0	0	0	0	0	0	**133**
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	7	0	0	0	0	0	**7**
Marsh	18	0	0	0	0	0	0	0	0	0	0	0	0	0	**18**
Mixed Upland Deciduous	0	38	0	0	0	0	0	0	0	0	0	0	0	0	**38**
Northern Hardwood	0	0	0	0	0	0	0	9	0	0	0	0	0	0	**9**
Upland Conifers	0	0	0	0	0	0	0	0	12	0	0	0	0	0	**12**
Upland Mixed Forest	0	0	15	0	0	72	0	0	0	0	0	0	0	0	**87**
Water	52	0	0	0	0	0	0	0	0	0	0	0	0	0	**52**
White Pine	0	0	0	0	0	0	0	11	24	0	0	0	0	0	**36**
Total	**202**	**38**	**15**	**0**	**15**	**83**	**96**	**38**	**92**	**168**	**848**	**220**	**0**	**0**	**1814**

Report 2 – Proposed Treatment Summaries

Sault Ste. Marie Mgt. Unit
Year of Entry 2015

Compartment 122
Total Compartment Acres: 1,814

Acres by Treatment Type

Commercial Harvest - 39	Tree Planting - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Upland Mixed Forest	0	0	39	0	0	0	**39**
Total	**0**	**0**	**39**	**0**	**0**	**0**	**39**

Report 3 -- Treatments Prescribed with No Limiting Factor

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
37	45122037-Cut	38.9	4319 - Mixed Upland Forest	High Density Pole	52	111-140	Harvest	Seed Tree with Reserves	4220 - Natural White Pine	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Stand has some areas of good white pine. Harvest all other species with representation left as reserve. Thin to 50 ba or so to allow the existing white pine regeneration to grow and to recruit new regeneration. Actual treament shape will reflect the actual ground conditions and relation to the surrounding wetlands. Do not cut any Hemlock within the stand. Cut in dry summer or winter depending on conditions. Buffer wetlands 75-100'.

Other Comments:

Next Steps: Conduct a regeneration survey following harvest according to work instruction guidelines. Acceptable regeneration will consist of anymix of white pine, aspen, birch, maple, spruce/fir, red pine, or hemlock.

Proposed Start Date: 10/01/2014

Total Treatment Acreage Proposed: 38.9

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

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Type!

Limiting Factor

Total Treatment Acreage Proposed: 0.0

Report 5 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matthew Edison : Examiner

Compartment 122

Year of Entry 2015

Availability for Management

Total Acres	Acres Available	Acres Not Available	Dominant Site Conditions	No	2H
19		19	**Aspen**		19
1268	282	986	**Cedar**	282	986
104	44	59	**Lowland Conifers**	44	59
18	0	17	**Lowland Deciduous**	0	17
15		15	**Lowland Mixed Forest**		15
7		7	**Lowland Spruce/Fir**		7
38	38	0	**Mixed Upland Deciduous**	38	0
9	9		**Northern Hardwood**	9	
12		12	**Upland Conifers**		12
87	80	7	**Upland Mixed Forest**	80	7
36		36	**White Pine**		36
1,611	453	1,158	Total Forested Acres	453	1,158
	28%	72%	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
001	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	1,283	2G: Too wet (sensitive soils, does not include access issues)	4A: No merchantable products (see product standards)	4A: No merchantable products (see product standards)	5D: Unproductive Forest Land

Comments:

Very large area of lowland cedar/ lowland forest mix. Several stands contained in this area that are not accessible through this large lowland forest. Some areas within do not produce any merchantable timber due to wetland.

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
Comp 122 POG	Potential Old Growth		**SCA Removal**	88.8
Comments				
Doesn't Meet Criteria				

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.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	High Density Pole	8.9	70	81-110	Stand was thinned in 2008 (Culvert Set Hardwood).
2	6120 - Lowland Cedar	Medium Density Pole	96.7	96	51-80	Stand of wet graound lowland cedar...15-20 ft. tall. Poor quality and variable density. Tag Alder scattered. Some widely scattered balsam and black spurce. No merchantability.
5	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	33.1	68	51-80	Wet, lowground of sparse, oor quality cedar and tamarack. There is some black spruce, but a good amount of it is flooded/dead.
6	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	38.2	18		Stand was cut last entry. Absolute mix of variable cherry, birch, aspen, balsam and spruce regeneration. There is a good amoutn of cedar regeneration scattered throughout.
7	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	11.2	59	111-140	Mixed stand of cedar, paper birch, and black spruce. Some merchantable birch, but variable. Most cedar is small diameter, as is the spruce. Density is variable. Overall, not enough volume of birch or spruce to warrant any treatment on this wet of ground.
9	429 - Mixed Upland Conifers	High Density Log	12.3	85	111-140	Stand of Larger White Pine with mix of Aspen, balsam, and poor quality red maple. This is a very low ridge surrounded by large wet cedar stand.
10	6122 - Black Spruce	Medium Density Pole	6.8	83	1-50	Small stand of mixed conifer. Slightly higher ground than surrounding stand. A low amount of balsam, but predominantly black spruce.
11	6120 - Lowland Cedar	High Density Pole	32.6	66	81-110	Stand is a slight variant of the much larger urrounding cedar stand. There is a component of aspen and tamarack in the north part mixed with the small cedar and black spruce.
14	6124 - Lowland Spruce-Fir	High Density Sapling	22.5	83		Isolated island stand within very large surrounding cedar stand. Very limited access.
15	42200 - Natural White Pine	High Density Log	24.3	87		Some large White Pine on ridge with Spruce gradiating down to wetland cedar. Very limited access.
16	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	10.1	75		West part of stand 22. Lower ground with mix of lowland deciuous and conifer with highly scattered White pine.
17	6124 - Lowland Spruce-Fir	High Density Pole	25.7	83		Stand is an isolated island within very large cedar stand, making access very limited and difficult.
18	6120 - Lowland Cedar	High Density Pole	848.2	100	81-110	Very large stand of variable density cedar. Very small diameter overall, but some areas of decent cedar. There are areas mixed with variable amounts of black spruce and paper birch, but mostly un-merchantable. There are large white pine scattered throughout.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	42201 - Natural White Pine, Mixed Deciduous	High Density Pole	11.5	71		Isolated Ridge adjacent to paquin Creek. Scattered White Pine and birch. Access is very limited due to surrounding cedar and wetlands.
23	4134 - Aspen, Spruce/Fir	High Density Pole	19.0	66	81-110	Ridge of Aspen mixed with balsam and spruce. Virtually no access for treatment. Blocked by very wet cedar stand and wetlands.
24	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	7.6	71		Stand is a variant of surrounding stand. Appears to have a hiher spruce content. No access for treatment.
27	6130 - Fir, Aspen, Maple	Medium Density Pole	14.7	46	51-80	Small stand of poorer quality aspen, balm, paper birch mix with balsam and spruce. Very limited access. Lower basal areasa, check again in ten years.
28	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	11.0	66		Stand is variant of surrounding large cedar stand. Stand appears to have a higher component of spruce. No access for any treatment.
29	6120 - Lowland Cedar	High Density Pole	219.7	111	81-110	Stand of mixed cedar, tamarack, and black spruce. Very wet ground.
30	6120 - Lowland Cedar	Medium Density	71.5	91		Stand appears is much wetter than adjacet cedar stand and cover is more sparse, with higher mortality. Very limited access.
37	4319 - Mixed Upland Forest	High Density Pole	71.7	52	111-140	Variable stand of birch, aspen, spruce/fir, hardwood and white pine. There is white pine regeneration comin in good. Some white pine have dead tops.
40	4319 - Mixed Upland Forest	High Density Sapling	14.9	26	51-80	Pole stand of mixed aspen, spruce, and balsam. Stand was cut in 1998 (Mystery Birch).

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	50 - Water	4.6	No	Unspecified	
4	629 - Mixed non-forested wetland	11.2	No	Unspecified	
8	629 - Mixed non-forested wetland	3.5	No	Unspecified	
12	629 - Mixed non-forested wetland	11.2	No	Unspecified	
13	629 - Mixed non-forested wetland	18.0	No	Unspecified	
19	629 - Mixed non-forested wetland	21.4	No	Unspecified	
21	629 - Mixed non-forested wetland	13.1	No	Unspecified	
22	629 - Mixed non-forested wetland	31.0	No	Unspecified	
25	629 - Mixed non-forested wetland	6.4	No	Unspecified	
26	629 - Mixed non-forested wetland	6.8	No	Unspecified	
31	629 - Mixed non-forested wetland	4.2	No	Unspecified	
32	50 - Water	1.2	No	Unspecified	
33	50 - Water	28.6	No	Unspecified	
34	629 - Mixed non-forested wetland	5.9	No	Unspecified	
35	50 - Water	4.5	Unspecified	Unspecified	
36	6239 - Mixed Emergent Wetland	17.6	No	Unspecified	
38	50 - Water	6.9	No	Unspecified	
39	50 - Water	4.5	No	Unspecified	

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
41	50 - Water	1.3	No	Unspecified	