Compartment Review Presentation

Shingleton Forest Management Unit

Compartment **41094**
Entry Year **2027**
Acreage: **1,781**
County: **Delta**
Management Area: **Escanaba Lake and Till Plain**

Stand Examiner: Steve Touvila

Legal Description:

T39N, R18W, Sections 1-3 & 10-12

Identified Planning Goals:

The goals in this compartment include conducting multiple resource management for current and future generations. Forest Health, Recreation, Biodiversity Stewardship, Wildlife and Timber Management are some of the key management components within this compartment.

Soil and topography:

The majority of this compartment is comprised of organic soils and other poorly drained soil types. There are some well drained sands and loamy sands as well, usually occurring on ridges. The terrain in the area is flat to rolling.

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

Ownership within the compartment is fairly fragmented with private land. The private land is either forest, marsh or agricultural. Permanent homes are starting to show up more frequently in this area. There is a State Police Radio Tower within section 1. Land use is growing in this area.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

The southern part of the compartment is part of the deer wintering complex.

Watershed and Fisheries Considerations:

This compartment contains headwater reaches of Garden Creek and Valentine Creek. Garden Creek and Valentine Creek are both non-designated streams less than 50-ft wide that have predicted mean July water temperatures of 62.6 and 61.5°F (cold streams), respectively. 100-foot, plus 5 feet per 1% increase in slope, riparian management zones are recommended for Garden Creek and Valentine Creek to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is located on the Garden Peninsula. The Cooks-Garden Grade bisects the compartment. General Land Office surveyors described the pre-settlement upland forest as a combination of hemlock, birch, beech, and red maple. Other species found included aspen, balsam poplar, white pine, ironwood, basswood, and butternut. Lowland forests were dominated by conifers such as spruce, cedar, fir, and tamarack. The current forest cover contains a much higher amount of aspen than found circa 1850. However, much of the lowland conifer stands appear to be fairly similar in forest composition to the pre-settlement forest. Featured species in this compartment are woodcock, ruffed grouse, white-tailed deer, and turkey. Wildlife habitat objectives include promoting age class diversity between aspen stands, providing old growth forest characteristics, and maintaining closed canopy conifer forest.

Mineral Resource and Development Concerns and/or Restrictions

Delta County
Surface sediments consist of lacustrine sand and gravel and medium-texture till. The glacial drift thickness varies between 0 and 10 feet. The Silurian Manistique Group subcrops below the glacial drift. This rock unit has the potential to be used for stone. Small gravel pits exist in sections 10 and 12, but potential appears to be limited by thin glacial drift. There is no commercial oil and gas production in the UP.

Vehicle Access:

Access to the bulk of the compartment is very limited. The Cooks Garden Grade is the main access. However, the Grade is blocked by a private gate to the south. The only access on the west side of the compartment is through private

ownership, which is also gated. There is a county road on the east side of the compartment, which provides good access to that area, but the adjacent private land has a gate that blocks off the interior of the compartment.

Survey Needs:

39N-18W section 12.

Recreational Facilities and Opportunities:

The Cooks Garden Grade is a Snowmobile Trail which is the only trail link to the City of Garden and the Garden Peninsula. The compartment does offer some secluded hunting opportunities due to the lack of roads in the area. The Cooks Garden Grade is also used by ORV enthusiasts.

Fire Protection:

Response times to fires within the compartment will be relatively slow due to its location. Fire operations will be challenging in some areas due to the lack of roads and the number of creeks present and organic soils. The compartment is comprised mainly of lowland conifer types and aspen which reduces the risk of catastrophic fires.

Additional Compartment Information:

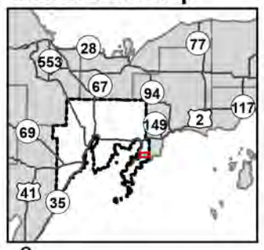
The following reports from the Inventory are attached:

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

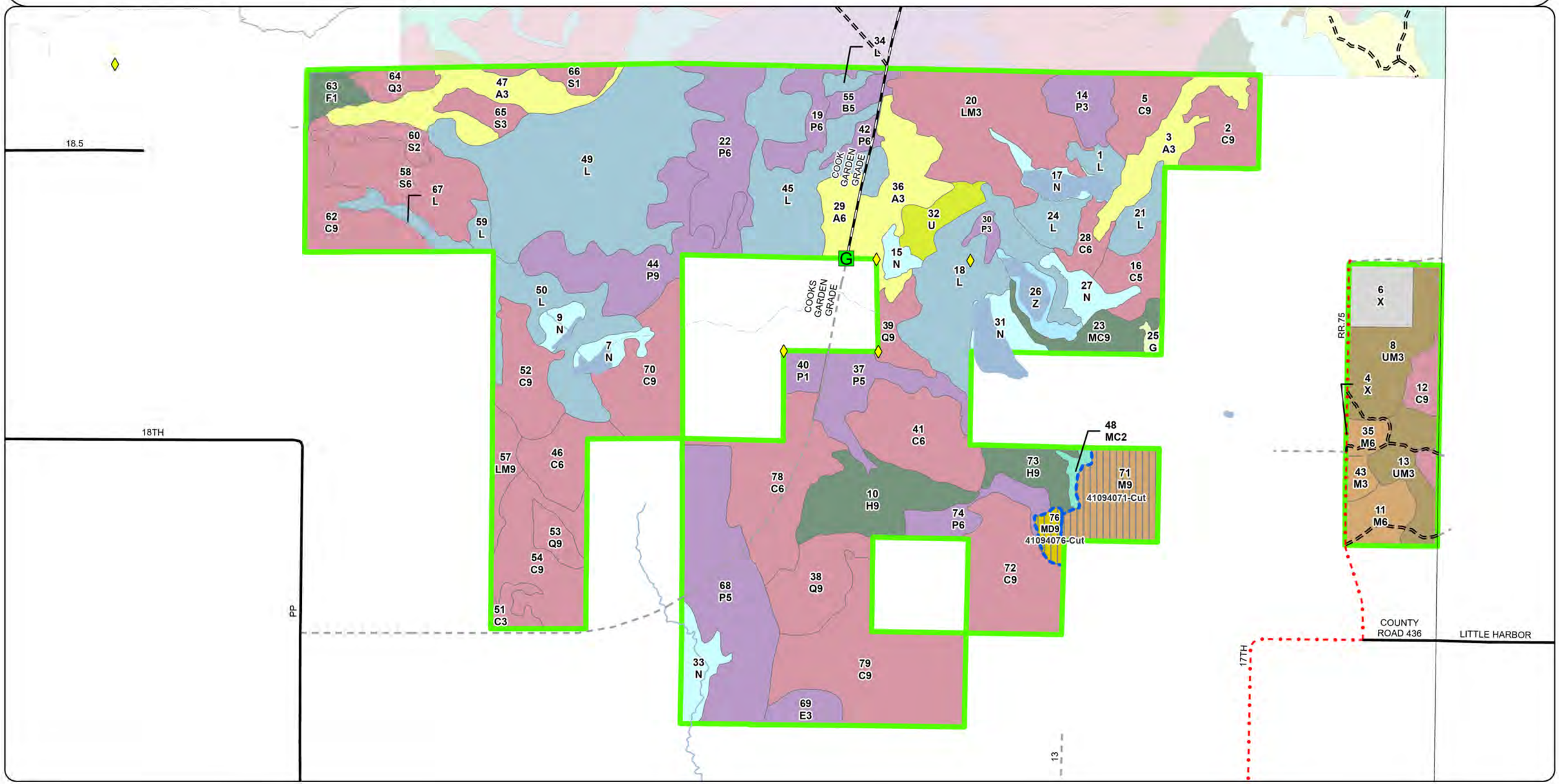


Compartment: 41094
T39N, R18W, Sec: 1-3, 10-12
County: Delta
Unit: Shingleton
Mgmt. Area: Escanaba Lake and Till Plain
YOE: 2027
Acres: 1,781 GIS Calculated
Examiner: Steve Touvila
Date Exported: 07/30/2025
Map Phase: Web Post

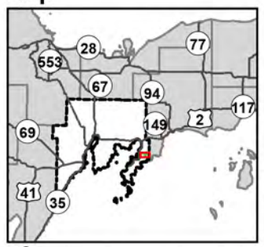
N

0 0.5 1 Miles

- Survey Grade Corners
- Gate
- DNR - Primary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Shelterwood
- Treatments with Site Conditions
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Decidous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Stand Boundary Map



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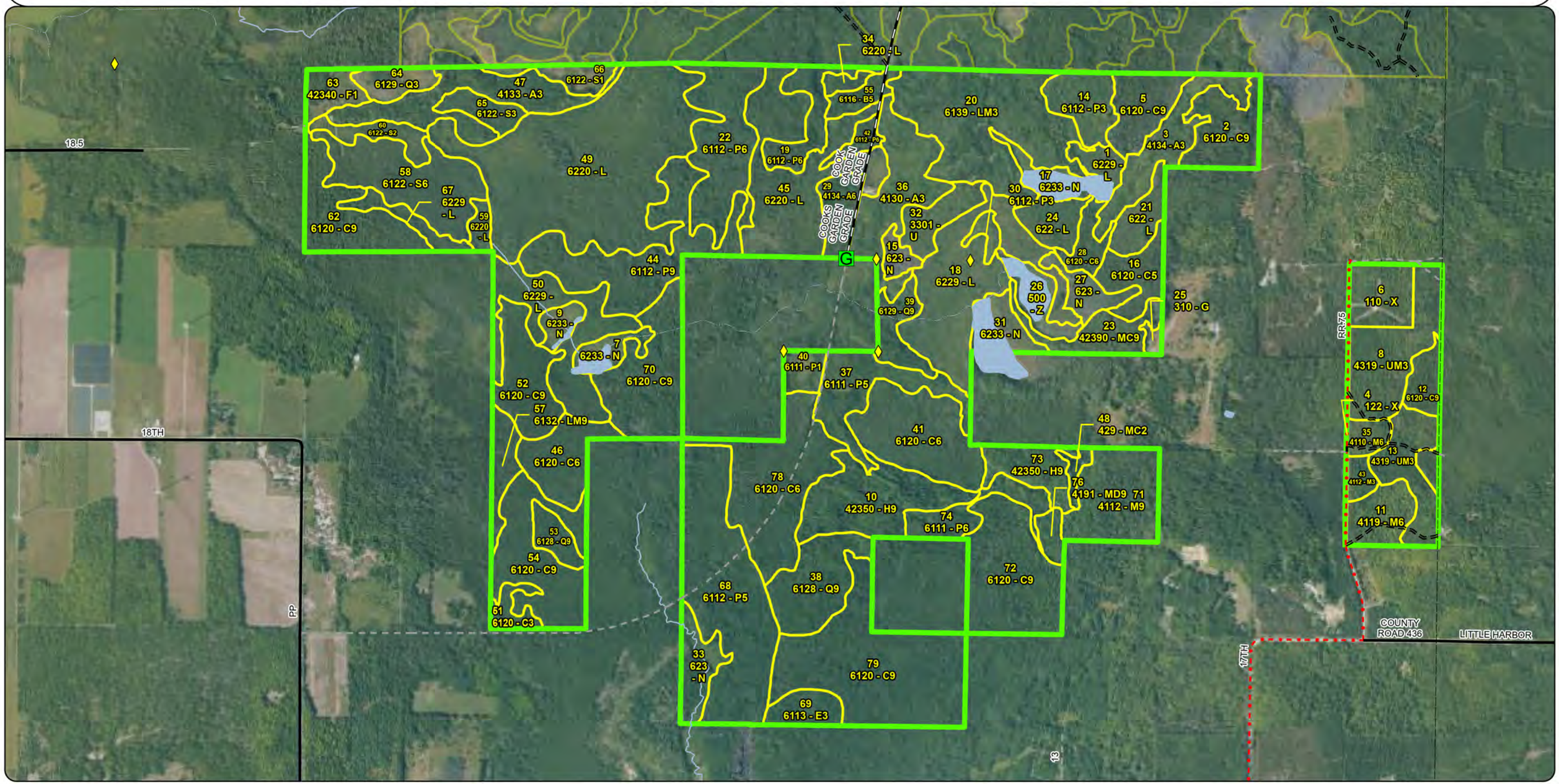
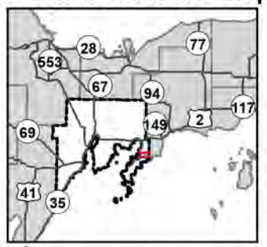


Special Conservation Areas & Site Conditions Map



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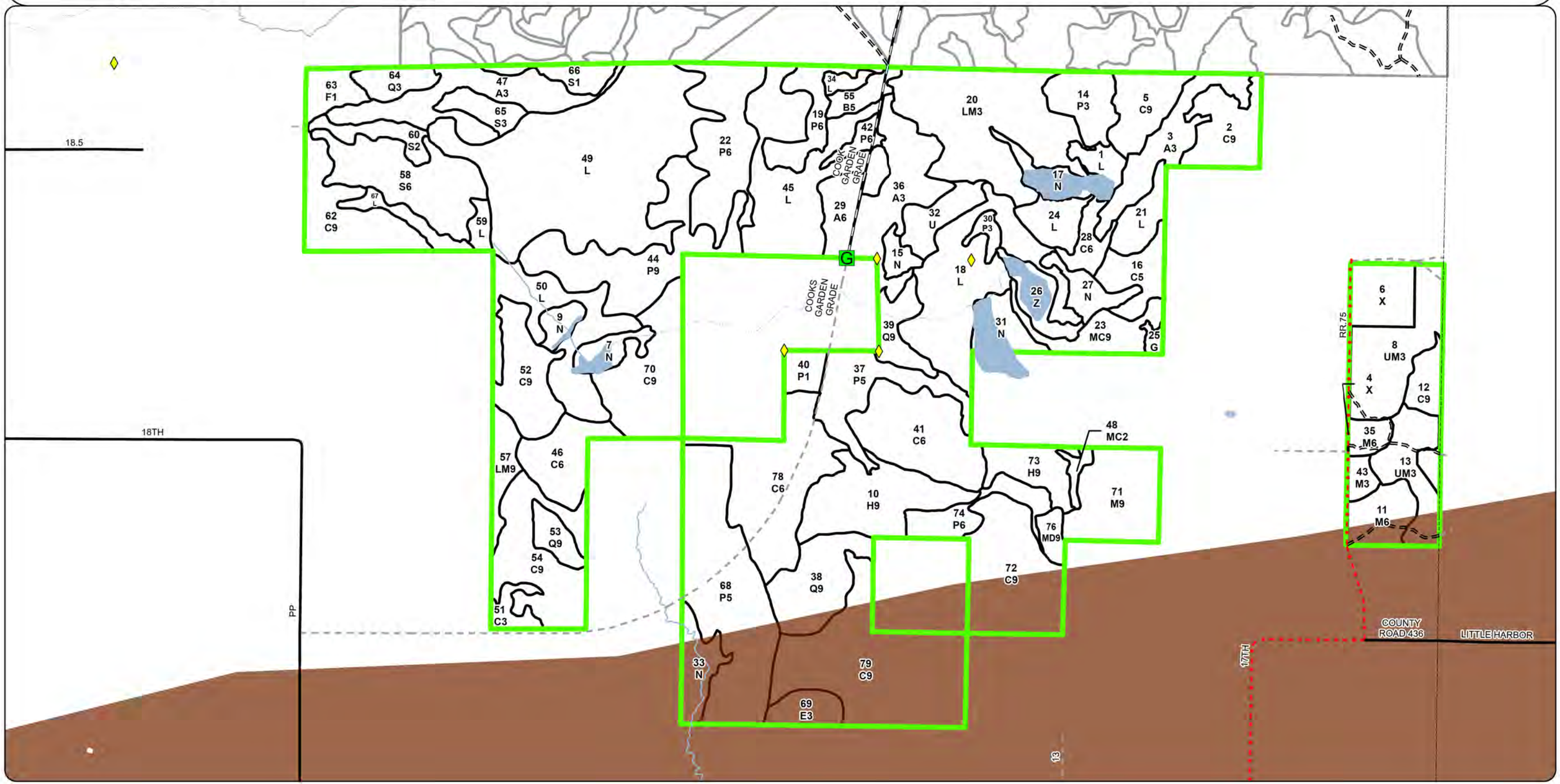
- Compartment Boundary
- Stand Boundaries
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class

Shingleton Mgt. Unit **Compartment 94** **Year of Entry 2027**

Steve Touvila: Examiner

Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	62	37	13	0	0	0	0	0	0	0	0	0	0	0	0	0	**112**
Cedar	0	0	0	0	0	0	7	0	0	23	69	41	72	269	0	0	0	0	**481**
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	41	0	17	0	0	0	**58**
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Low-Density Trees	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**14**
Lowland Aspen/Balsam Poplar	0	0	30	0	188	0	0	54	0	0	0	0	0	0	0	0	0	0	**272**
Lowland Conifers	0	10	0	0	0	0	0	0	0	0	0	9	30	0	0	0	13	0	**61**
Lowland Deciduous	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	**11**
Lowland Mixed Forest	0	0	0	0	75	0	0	0	0	11	0	0	0	0	0	0	0	0	**86**
Lowland Shrub	346	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**346**
Lowland Spruce/Fir	0	10	0	9	0	10	0	0	0	0	43	0	0	0	0	0	0	0	**72**
Marsh	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**70**
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	**5**
Northern Hardwood	0	0	0	0	5	0	0	0	6	51	0	0	0	0	0	0	0	0	**62**
Paper Birch	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	**8**
Upland Conifers	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	17	0	**21**
Upland Mixed Forest	0	0	0	0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	**58**
Upland Spruce/Fir	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**11**
Urban	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**20**
Water	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**13**
Total	**465**	**31**	**92**	**50**	**351**	**10**	**7**	**62**	**6**	**85**	**117**	**50**	**143**	**269**	**17**	**0**	**30**	**0**	**1783**

Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2027

Compartment 94
Total Compartment Acres: 1,781

Acres of Harvest

Commercial Harvest -
Harvests with Site Condition - 115
Next Step Harvest - 35
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	0	0	0	0	5	0	0	0	0	**5**
Northern Hardwood	0	0	0	0	35	0	0	0	0	**35**
Total	**0**	**0**	**0**	**0**	**41**	**0**	**0**	**0**	**0**	**41**

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	41	0	0	0	0	0	0	0	0	**41**
Next Step	35	0	0	0	0	0	41	0	0	**76**
Total	**76**	**0**	**0**	**0**	**0**	**0**	**41**	**0**	**0**	**116**

Proposed Treatments:

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
71	41094071-Cut	35.1	4112 - Maple, Beech, Cherry Association	9	80	111-140	Harvest	Shelterwood	411 - Northern Hardwood	Cutting Record	No

Prescription Specs: Shelterwood treatment leaving 40 BA. Don't cut hemlock, oak, and cedar if encountered. No retention due to future overstory removal.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory); Harvest, Overstory Removal

Acceptable Regen: northern hardwood species

Other Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/01/2026

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
76	41094076-Cut	5.4	4191 - Mixed Upland Deciduous with Conifer	9	95	111-140	Harvest	Shelterwood	4191 - Mixed Upland Deciduous with Conifer	Cutting Record	No

Prescription Specs: Shelterwood with retention. Cut all merchantable trees except don't cut hemlock, white pine, and oak if encountered. Hemlock and white pine will be the retention.

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

Acceptable Regen: maple, birch, balsam fir, white spruce, black spruce, white pine, hemlock, cedar, aspen, balsam poplar

Other Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/01/2026

Total Treatment Acreage Proposed: **40.5**

Report 4 – Site Conditions

Shingleton Mgt. Unit

Steve Touvila: Examiner

Compartment: 94

Year of Entry: 2027

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available		Dominant Site Conditions *2I*	*4A*	*5C*	3E	3H	3J	5E
112	112	*0*	0	**Aspen**							
452	349	*0*	103	**Cedar**					103		
58	58	*0*	0	**Hemlock**							
2	2	*0*	0	**Herbaceous Openland**							
14	14	*0*	0	**Low-Density Trees**							
270	216	*54*	0	**Lowland Aspen/Balsam Poplar**			*54*				
31	18	*0*	13	**Lowland Conifers**					7	6	
11	0	*0*	11	**Lowland Deciduous**					11		
86	86	*0*	0	**Lowland Mixed Forest**							
346	346	*0*	0	**Lowland Shrub**							
63	20	*43*	1	**Lowland Spruce/Fir**		*43*					1
70	70	*0*	0	**Marsh**							
5	0	*5*	0	**Mixed Upland Deciduous**	*5*						
63	28	*35*	0	**Northern Hardwood**	*35*						
8	8	*0*	0	**Paper Birch**							
21	21	*0*	0	**Upland Conifers**							
58	59	*0*	0	**Upland Mixed Forest**							
3	0	*0*	3	**Upland Spruce/Fir**							3
20	2	*0*	18	**Urban**				18			
13	13	*0*	0	**Water**							
1,706	1,420	*137*	149	Total Forested Acres	*41*	*43*	*54*	18	121	6	4
	83%	*8%*	9%	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**	**2I: Survey needed**	5	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified

Comments:

2	**Unavailable**	**3E: Easement/lease, non-military (e.g. Consumers Power red pine, etc.)**	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	**Unavailable**	**3H: Deer Wintering Area - habitat is incompatible with harvest at this time**	120	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	**Unavailable**	**5E: Long-Term Retention**	3	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: This stand is not operable due to the amount of cedar in the stand.							
6	**Available**	**4A: No markets available for these forest products**	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	**Available**	**2I: Survey needed**	35	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							

11	**Unavailable**	**5E: Long-Term Retention**	1	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified

Comments:
This stand is not operable due to the amount of cedar in the stand.

17	**Unavailable**	**3J: Water quality/BMPs (stream, river, or lake)**	6	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Stream flows through this stand with a drainage that flows into it from the north part of the stand.

20	**Unavailable**	**5E: Long-Term Retention**	0	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified

Comments:
This stand is not operable due to the amount of cedar in the stand.

26	**Unavailable**	**5E: Long-Term Retention**	0	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified

Comments:
This stand is not operable due to the amount of cedar in the stand.

29	**Unavailable**	**5E: Long-Term Retention**	0	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified

Comments:
This stand is not operable due to the amount of cedar in the stand.

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

Comments

Report 7 – Stands

Compartment: 94
Year of Entry: 2027

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	6229 - Mixed Lowland Shrub	None	7.0			No	
2	6120 - Lowland Cedar	Sawtimber Well	23.6	97	141-170	N/A	
3	4134 - Aspen, Spruce/Fir	Sapling Well	26.2	14	Immature	N/A	[2014] Stand was cut as part of the Garden Grade A-B Mix Sale #15-07. Sale was cut in the spring of 2011 and closed with TCR on 6/20/2011.
4	122 - Road/Parking Lot	None	1.5			No	
5	6120 - Lowland Cedar	Sawtimber Well	19.9	97	171-200	N/A	
6	110 - Low Intensity Urban	None	18.3			No	State Police Tower. Stand is under long-term lease agreement.
7	6233 - Wet Meadow	None	8.8			No	Beaver flooded area
8	4319 - Mixed Upland Forest	Sapling Well	35.3	35	1-50	N/A	Cut in 1990.

Stand 2

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	15		9	
Black Spruce	5		11	
Northern White Cedar	75		11	97
Balsam Fir	5		10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable
Black Spruce	Low	Variable	Variable

Stand 3

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Log	2	
Hemlock	1		14	
Quaking Aspen	70	Log	2	14
Balsam Fir	24	Log	2	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet

Stand 5

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5		10	
Black Spruce	5		11	
Northern White Cedar	85		11	97
Red Maple	2		16	
Paper Birch	3		9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable

Stand 8

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	15	Log	3	
Sugar Maple	10	Log	3	
Paper Birch	20	Log	3	
Bigtooth Aspen	10	Log	3	
White Pine	15	Pole	4	
Balsam Fir	30	Pole	3	35

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
9	6233 - Wet Meadow	None	6.2			No	Beaver flooded area
10	42350 - Upland Hemlock	Sawtimber Well	41.0	115	171-200	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	10		9	
Hemlock	65		14	115
Yellow Birch	10		12	
Red Maple	15		12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Trace	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	4119 - Mixed Northern Hardwoods	Poletimber Well	16.1	80	51-80	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2		14	
Northern White Cedar	3	Seedling	8	
Hemlock	2		14	
Sugar Maple	70	Seedling	9	80
Red Maple	5	Seedling	9	
Paper Birch	8	Seedling	9	
Balsam Fir	10	Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Full	>20 feet	>20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
12	6120 - Lowland Cedar	Sawtimber Well	13.0	116	141-170	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	3	Seedling	8	
Black Spruce	4		9	
Northern White Cedar	90		10	116
Balsam Poplar	3		11	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	4319 - Mixed Upland Forest	Sapling Well	23.2	35	1-50	N/A	Cut in 1990.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Log	3	
Paper Birch	5	Log	4	
Bigtooth Aspen	20	Pole	4	
Northern White Cedar	5	Seedling	8	
Balsam Fir	45	Pole	4	35

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
14	6112 - Lowland Aspen	Sapling Well	17.5	14	Immature	N/A	Stand was cut as part of the Garden Grade A-B Mix Sale. The stand was cut in the late winter/early spring of 2011. The TCR date is 6/20/2011.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Log	2	
Quaking Aspen	85	Log	2	14
Balsam Poplar	10	Log	2	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
Tag Alder	High	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
15	623 - Emergent Wetland	None	5.4			No	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	6120 - Lowland Cedar	Poletimber Medium	16.0	96	51-80	N/A	
17	6233 - Wet Meadow	None	12.0			No	
18	6229 - Mixed Lowland Shrub	None	60.0			No	
19	6112 - Lowland Aspen	Poletimber Well	16.5	35	51-80	N/A	Cut in 1990 as part of Grades End.
20	6139 - Mixed Lowland Forest	Sapling Well	74.6	31	1-50	N/A	Cut in 1994.[12/24] Mature cedar is in one group near northern edge of the stand. Fast growth for the tamarack and black spruce.
21	622 - Lowland Shrub	None	12.0			No	
22	6112 - Lowland Aspen	Poletimber Well	42.5	35	51-80	N/A	Stand was cut as part o Grades End Aspen in 1990.

16

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Seedling	8	
Northern White Cedar	95	Seedling	8	96

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full	5 - 10 feet	5 - 10 feet

19

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	45	Seedling	6	35
Balsam Fir	10	Pole	4	
Bigtooth Aspen	45	Seedling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	10 - 20 feet	10 - 20 feet

20

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	1	Seedling	8	
Quaking Aspen	58	Pole	4	31
Tamarack	10	Pole	4	
White Pine	1	Pole	4	
Black Spruce	28	Pole	4	
Northern White Cedar	2	Seedling	8	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	Variable	Variable

21

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	5 - 10 feet

22

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	70	Seedling	6	35
Balsam Fir	10	Pole	4	
Balsam Poplar	20	Seedling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	>20 feet	>20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
23	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	17.4	155	141-170	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	10		12	
Balsam Fir	10		9	
Northern White Cedar	20		10	
Hemlock	35		13	155
Red Maple	10		12	
Paper Birch	5		9	
White Pine	10		14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
24	622 - Lowland Shrub	None	12.2			No	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	>20 feet	>20 feet
Tag Alder	High	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
25	310 - Herbaceous Openland	None	2.3			No	
26	500 - Water	None	12.9			No	
27	623 - Emergent Wetland	None	10.2			No	Stand has some scattered balsam poplar and some cedar. It is mostly dead now due to beaver activity. There is some regeneration present but will most likely die out after a few years. [12/24] Area has flooded and most of the trees have died.
28	6120 - Lowland Cedar	Poletimber Well	9.1	96	81-110	N/A	There's an upland hill that continues from the aspen stand to the southwest through this stand.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Seedling	9	
Quaking Aspen	5		14	
White Pine	1		16	
Black Spruce	5		9	
Northern White Cedar	84	Seedling	8	96

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
29	4134 - Aspen, Spruce/Fir	Poletimber Well	12.6	35	51-80	N/A	Stand was cut in 1990 as part of Grades End Block sale. There are some areas of tag alder in the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	77	Seedling	6	35
Black Spruce	10	Pole	4	
Northern White Cedar	1	Seedling	8	
Balsam Fir	10	Sapling	5	
Tamarack	2	Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
30	6112 - Lowland Aspen	Sapling Well	4.0	14	Immature	N/A	Stand was cut as part of the Garden Grade A-B Mix. Sale was cut in the winter/spring of 2011. TCR date 6/20/2011.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	80	Log	2	14
Balsam Fir	20	Log	2	

31	6233 - Wet Meadow	None	13.2			No	

32	3301 - Low Density Deciduous Trees	None	13.7			No	

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	Variable	Variable
Paper Birch	Low	Variable	Variable

33	623 - Emergent Wetland	None	14.6			No	

34	6220 - Alder/Willow	None	3.5			No	

35	4110 - Sugar Maple Association	Poletimber Well	6.4	75	81-110	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Beech	2		10	
Sugar Maple	85	Seedling	8	75
Red Maple	3	Seedling	8	
Paper Birch	5	Seedling	9	
Bigtooth Aspen	5		16	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Medium	< 5 feet	< 5 feet
Balsam Fir	Medium	Variable	Variable

36	4130 - Aspen	Sapling Well	36.1	15	Immature	N/A	[2014] Stand was cut as part of the Garden Grade A-B Mix Sale #15-07. This unit was cut in the winter/spring of 2010. Some edges were not harvested due to the wet conditions.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Log	2	
Bigtooth Aspen	85	Log	2	15
Black Spruce	5	Log	1	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet

37	6111 - Lowland Balsam Poplar	Poletimber Medium	28.4	30	1-50	N/A	Cut in 1995 as part of Cooks Garden Beaver.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Sapling	5	
Balsam Fir	30	Pole	4	
Balsam Poplar	50	Sapling	5	30

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
38	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	30.0	115	171-200	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	15		10	
Red Maple	17		12	
Northern White Cedar	48	Seedling	9	115
Hemlock	20		12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
39	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	13.0	155	171-200	N/A	North half of the stand contains most of the cedar and the hemlock is located on a hill in the south part of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5		13	
Paper Birch	5		10	
White Pine	1		18	
Yellow Birch	5		13	
White Spruce	2		12	
Northern White Cedar	40		12	
Hemlock	42		16	155

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
40	6111 - Lowland Balsam Poplar	Sapling Poor	7.5	14	Immature	N/A	Cut as part of Garden Grade A-B Mix in 2011.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	30	Log	2	
Balsam Poplar	70	Log	2	14

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
41	6120 - Lowland Cedar	Poletimber Well	42.6	125	111-140	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	95	Seedling	8	125
Red Maple	2	Seedling	8	
Paper Birch	3	Seedling	8	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
42	6112 - Lowland Aspen	Poletimber Well	5.1	35	51-80	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	1	Seedling	6	
Quaking Aspen	83	Seedling	6	35
Black Cherry	2	Seedling	8	
Balsam Fir	10	Seedling	7	
Red Maple	3		10	
Paper Birch	1	Seedling	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
43	4112 - Maple, Beech, Cherry Association	Sapling Well	5.0	35	1-50	N/A	Cut in 1990.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Log	3	
Red Maple	72	Log	3	35
Bigtooth Aspen	3	Seedling	5	
Black Cherry	15	Log	3	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
44	6112 - Lowland Aspen	Sawtimber Well	54.0	65	81-110	N/A	This stand could be cut next entry when the adjacent stand 22 is ready for treatment. [10/20/15 TI] This stand was flagged with high or very high potential for spruce budworm impact but the decision at Compartment Review was not to harvest the stand at this time.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	65		12	65
Balsam Fir	25	Sapling	6	
Paper Birch	3		10	
Balsam Poplar	5		12	
Northern White Cedar	2		12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	>20 feet	>20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
45	6220 - Alder/Willow	None	61.7			No	

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	>20 feet	>20 feet
Quaking Aspen	Low	>20 feet	>20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
46	6120 - Lowland Cedar	Poletimber Well	23.0	80	81-110	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Seedling	7	
Northern White Cedar	95	Seedling	8	80

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Trace	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	Variable	Variable
Black Spruce	Low	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
47	4133 - Aspen, Mixed Pine	Sapling Well	37.2	26	1-50	N/A	Stand was cut in 1999 as part of Garden Aspen sale.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	63	Pole	4	26
Red Pine	2		11	
Balsam Fir	9	Pole	3	
Black Spruce	5	Pole	4	
Hemlock	1		14	
White Pine	20		6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
48	429 - Mixed Upland Conifers	Sapling Medium	3.6	25	1-50	N/A	This stand was a small clearcut as part of Little Harbor Hardwood 41-045-98 in 2000.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	35	Pole	4	
Red Maple	5	Log	2	
Bigtooth Aspen	10	Log	3	
Hemlock	5	Log	2	
Balsam Fir	45	Log	3	25

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
49	6220 - Alder/Willow	None	137.3			No	
50	6229 - Mixed Lowland Shrub	None	39.0			No	Beaver flooded area.
51	6120 - Lowland Cedar	Sapling Well	6.7	50	1-50	N/A	Old patch cut. It's regenerating well.
52	6120 - Lowland Cedar	Sawtimber Well	27.1	110	171-200	N/A	Good ground in this stand.
53	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	8.5	105	81-110	N/A	Tamarack is dying off.
54	6120 - Lowland Cedar	Sawtimber Well	41.3	103	171-200	N/A	Good ground. Cedar is slightly larger in the north half of the stand.
55	6116 - Lowland Birch	Poletimber Medium	7.7	60	51-80	N/A	New mapped stand with healthy paper birch in the lowland area.

Stand 49 – Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	>20 feet	>20 feet
Paper Birch	Low	>20 feet	>20 feet

Stand 51 – Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Sapling	5	
Northern White Cedar	80	Pole	4	50
Paper Birch	10	Pole	4	
Bigtooth Aspen	5	Sapling	5	

Stand 51 – Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Trace	5 - 10 feet	5 - 10 feet

Stand 52 – Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	25		9	
Northern White Cedar	70		10	110
Balsam Poplar	5		14	

Stand 52 – Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Trace	5 - 10 feet	5 - 10 feet

Stand 53 – Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	15	Seedling	9	
Balsam Poplar	5		12	
Balsam Fir	15	Seedling	7	
Tamarack	30		12	105
Black Spruce	15		9	
Northern White Cedar	20	Seedling	8	

Stand 53 – Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Variable

Stand 54 – Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	5		9	
Black Spruce	20	Seedling	8	103
Northern White Cedar	75		12	103

Stand 54 – Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Trace	Variable	Variable

Stand 55 – Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	15	Seedling	8	
Paper Birch	85	Seedling	7	60

Stand 55 – Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
57	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	11.2	86	51-80	N/A	
58	6122 - Black Spruce	Poletimber Well	42.9	92	81-110	N/A	[2025] Dense stand but small diameters. Stand is heathy and should be left another entry for more growth. Sale was prepped in 2017 Spruce-Topia with harvesting attempted in 2020 but was too wet at that time.[2015]This stand is very well stocked. The diameters are low and there has not been much volume accumulation since last entry.
59	6220 - Alder/Willow	None	4.5			No	
60	6122 - Black Spruce	Sapling Medium	10.2	40	1-50	N/A	
62	6120 - Lowland Cedar	Sawtimber Well	31.5	110	141-170	N/A	Dense cedar stand with a few fingers of tag alder/balsam fir. Cedar diameters are smaller in the north end which is were most of the paper birch is located. Aspen is dying off in the south half.
63	42340 - Upland Spruce/Fir	Sapling Poor	10.6	5	Immature	N/A	Spruce-Topia sale harvested in 2020.
64	6129 - Mixed Coniferous Lowland Forest	Sapling Well	9.9	5	Immature	N/A	Spruce-Topia Sale harvested in 2020.

57

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	30		9	
Balsam Poplar	20		12	86
Northern White Cedar	50		12	86

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable
Black Ash	Medium	< 5 feet	< 5 feet

58

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	98	Sapling	6	92
Northern White Cedar	1		10	
Paper Birch	1		10	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Trace	Variable	Variable

60

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	100	Log	3	40

62

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Seedling	6	
Black Spruce	2	Seedling	6	
Northern White Cedar	80		10	110
Red Maple	1	Seedling	7	
Paper Birch	2	Seedling	7	
Quaking Aspen	10		14	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	10 - 20 feet	10 - 20 feet
Balsam Fir	Low	10 - 20 feet	10 - 20 feet

63

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	10	Log	1	
White Pine	5	Log	1	
Black Spruce	40	Log	1	
Balsam Fir	45	Log	1	5

64

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	3	Log	1	
Black Spruce	48	Log	1	5
Tamarack	48	Log	1	5
Red Pine	1	Log	1	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
65	6122 - Black Spruce	Sapling Well	9.4	26	Immature	N/A	Stand was cut as part of the Garden Aspen Sale during 1999.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	80	Log	3	26
Balsam Fir	10	Log	3	
White Pine	10	Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
66	6122 - Black Spruce	Sapling Poor	9.5	6	Immature	N/A	Cut in 2019 as part of Spruce-Topia. A few scattered mature red pine were left.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	2	Log	1	
Red Pine	1	Log	1	
Red Pine	1		14	
White Pine	3	Log	1	
Tamarack	38	Log	1	
Black Spruce	55	Log	1	6

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
67	6229 - Mixed Lowland Shrub	None	8.4			No	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Black Spruce	Low	>20 feet	>20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
68	6112 - Lowland Aspen	Poletimber Medium	78.2	30	51-80	N/A	Cut in 1995 as part of Cooks Garden Beaver. The balsam fir is mainly in lower areas with slower growth compared to the aspen growth.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	20	Seedling	6	
Red Maple	5	Pole	3	
Bigtooth Aspen	40	Seedling	6	30
Balsam Fir	35	Log	3	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	>20 feet	>20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
69	6113 - Lowland Maple	Sapling Well	10.8	30	1-50	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	65	Log	3	30
Northern White Cedar	5	Seedling	8	
Balsam Fir	30	Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	>20 feet	>20 feet
Tag Alder	Low	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
70	6120 - Lowland Cedar	Sawtimber Well	40.1	120	81-110	N/A	Wet stand with a lot of blowdown areas and resulting in variable BA.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5		10	
Balsam Fir	5	Seedling	8	
Northern White Cedar	80		12	120
Quaking Aspen	10		12	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
71	4112 - Maple, Beech, Cherry Association	Sawtimber Well	35.1	80	111-140	N/A	Last thinned in 2000 Little Harbor Hardwood.There's no maple saplings or seedlings present due to deer browse.
72	6120 - Lowland Cedar	Sawtimber Well	49.2	127	141-170	N/A	Wet stand with blowdown areas and regeneration within these areas.
73	42350 - Upland Hemlock	Sawtimber Well	16.6	132	141-170	N/A	Mostly upland with a couple pockets of lowland. The eastern 3.5 acre edge of the stand was a small clearcut as part of Little Harbor Hardwood 41-045-98 in 2000.
74	6111 - Lowland Balsam Poplar	Poletimber Well	16.6	36	81-110	N/A	There's a small stream that splits the stand in east and west halves in the narrow part of the stand.
76	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	5.4	95	111-140	N/A	

71

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	34		10	
Red Maple	57		10	80
Yellow Birch	2		12	
Quaking Aspen	1	Seedling	8	
Balsam Fir	2	Seedling	7	
Black Cherry	2		11	
Beech	2		10	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Trace	>20 feet	>20 feet

72

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	25		9	
Northern White Cedar	75		9	127

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Variable
Black Ash	Medium	< 5 feet	< 5 feet
Northern White Cedar	Low	Variable	Variable

73

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5		14	
Northern White Cedar	5		10	
Hemlock	65		12	132
Red Maple	2		12	
Paper Birch	15	Seedling	9	
Bigtooth Aspen	5		16	
White Pine	3		14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable

74

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	2	Seedling	8	
Balsam Fir	20	Sapling	5	
Balsam Poplar	78	Seedling	6	36

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Low	Not Applicable	Not Applicable
Balsam Fir	Low	10 - 20 feet	10 - 20 feet

76

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	10		14	
Red Maple	23		12	
Paper Birch	30		10	95
Northern White Cedar	10	Seedling	9	
Hemlock	25		12	
Balsam Poplar	1		14	
White Pine	1		16	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
78	6120 - Lowland Cedar	Poletimber Well	55.3	125	111-140	N/A	Low quality wet cedar stand.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	8	Seedling	7	
Northern White Cedar	90	Seedling	8	125
Hemlock	2		16	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet

79	6120 - Lowland Cedar	Sawtimber Well	81.6	127	141-170	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5		10	
Yellow Birch	5		10	
Northern White Cedar	90		10	127

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	Low	Variable	Variable