



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41064

Entry Year 2024

Acreage: 2,121

County Schoolcraft

Management Area: Seney Manistique Swamp

Stand Examiner: Sheila Clark

Legal Description:

T43N R14W Sections 33-36

Identified Planning Goals:

Provide for the protection, integrated management, and responsible use of a healthy, productive, forest and mineral resource base for the social, recreational, environmental, and economic benefit of the people of the State of Michigan.

Soil and topography:

Soil types found in this compartment are Saugetuck sand, AuTrain loamy sand, Wallace fine sand, Carbondale peat and Greenwood peat. The sands will grow the poor quality hardwoods and the pine types. The peat soils will have the spruce and associated conifer types growing on them. There is some rolling terrain mainly near the Manistique River and Floodwood Road. The remainder of the compartment is low ground with poor drainage.

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

This compartment has broken ownership of private land and some commercial private around the area.

Unique Natural Features:

Currently under review by Michigan Natural Features inventory.

Archeological, Historical, and Cultural Features:

This area was logged at the turn of the century like many of the areas in the Shingleton Management Unit. There are traces of old winter roads in some of the stands.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment contains The Mainstem Manistique River, Bear Creek, Little Bear Creek, and Cub Bear Creek.

The Mainstem Manistique River is a non-designated river greater than 50' width with a predicted mean July temperature of 69.6 °F (cool stream). 100' plus 5' per 1% increase in slope; buffers are recommended for the Mainstem Manistique River to protect these areas in accordance with Best Management Practices.

Bear Creek has split fisheries regulations in this compartment. Upstream of the Cub Bear Creek confluence, Bear Creek is a designated Type 1 trout stream less than 50' width with a predicted mean July temperature of 65.5 °F (cold stream). Upstream of the Cub Bear Creek confluence, 300' buffers are recommended for Bear Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, or areas downstream of the Cub Bear Creek confluence, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Little Bear Creek is a designated Type 1 trout stream less than 50' width with a predicted mean July temperature of 62.8 °F (cold stream). 300' buffers are recommended for Little Bear Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended for Little Bear Creek to protect these areas in accordance with Best Management Practices.

Cub Bear Creek is a non-designated stream less than 50' width with a predicted mean July temperature of 65.5 °F (cold stream). 100' plus 5' per 1% increase in slope; buffers are recommended for Cub Bear Creek to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment lies within the St. Ignace sub-subsection. The growing season last approximately 130 days. Extreme winter low temperature approaches -46.0 F. Annual snowfall averages 100 inches. The compartment falls within the

Seney Manistique Swamp Management Area which highlights the following Featured Species: Moose, sharp-tailed grouse, snowshoe hare and white-tailed deer. Pre-settlement forests in the lowlands were likely dominated by cedar, tamarack, balsam fir, and black spruce. Upland forest probably contained hemlock, sugar maple, beech, yellow birch, white birch, and basswood. Fire and windthrow were likely the major forms of natural disturbance. This compartment contains a substantial amount of open wetlands. Current vegetation in lowland forest is similar in species composition as would have been expected pre-settlement. On the uplands, however, has shifted more toward early successional species such as jack pine and aspen. Wildlife habitat objectives in this compartment include maintaining closed canopy conifer stands, promoting hemlock in the uplands, and protecting the Bear Creek Stream corridor. Wood turtles (Michigan special concern) are known to utilize this compartment. Other wildlife species of interest that may utilize this compartment include northern redbelly snake, garter snake, Black burnian warbler, saw-whet owl, fisher, and red fox.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck and thin to discontinuous glacial till over bedrock. There is insufficient data to determine the glacial drift thickness. The Silurian Burnt Bluff Group and Cabothead Shale sub-crop below the glacial drift. The Burnt Bluff is quarried for stone. The nearest gravel pit is one-half mile to the south and there appears to be some potential in Sections 33 & 34. There is a clay pit 8 miles to the west. There is no commercial oil and gas production in the UP.

Vehicle Access:

Access for vehicle traffic is poor unless using the Floodwood Road. There are only a couple trail roads that can be used all year. Old winter roads are of limited quantity.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Snowmobile Trail number 2, which is maintained by Schoolcraft County Snowmobile Club, runs through the top portion of sections 33 and 34 of the compartment part of which is on a county road.

Fire Protection:

The majority of the compartment is lowland conifers so fire danger is low. However, there are scattered islands of pine which have the potential for lightening strikes were access would be poor.

Additional Compartment Information:

The following reports from the Inventory are attached:

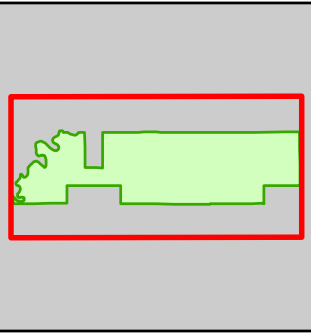
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

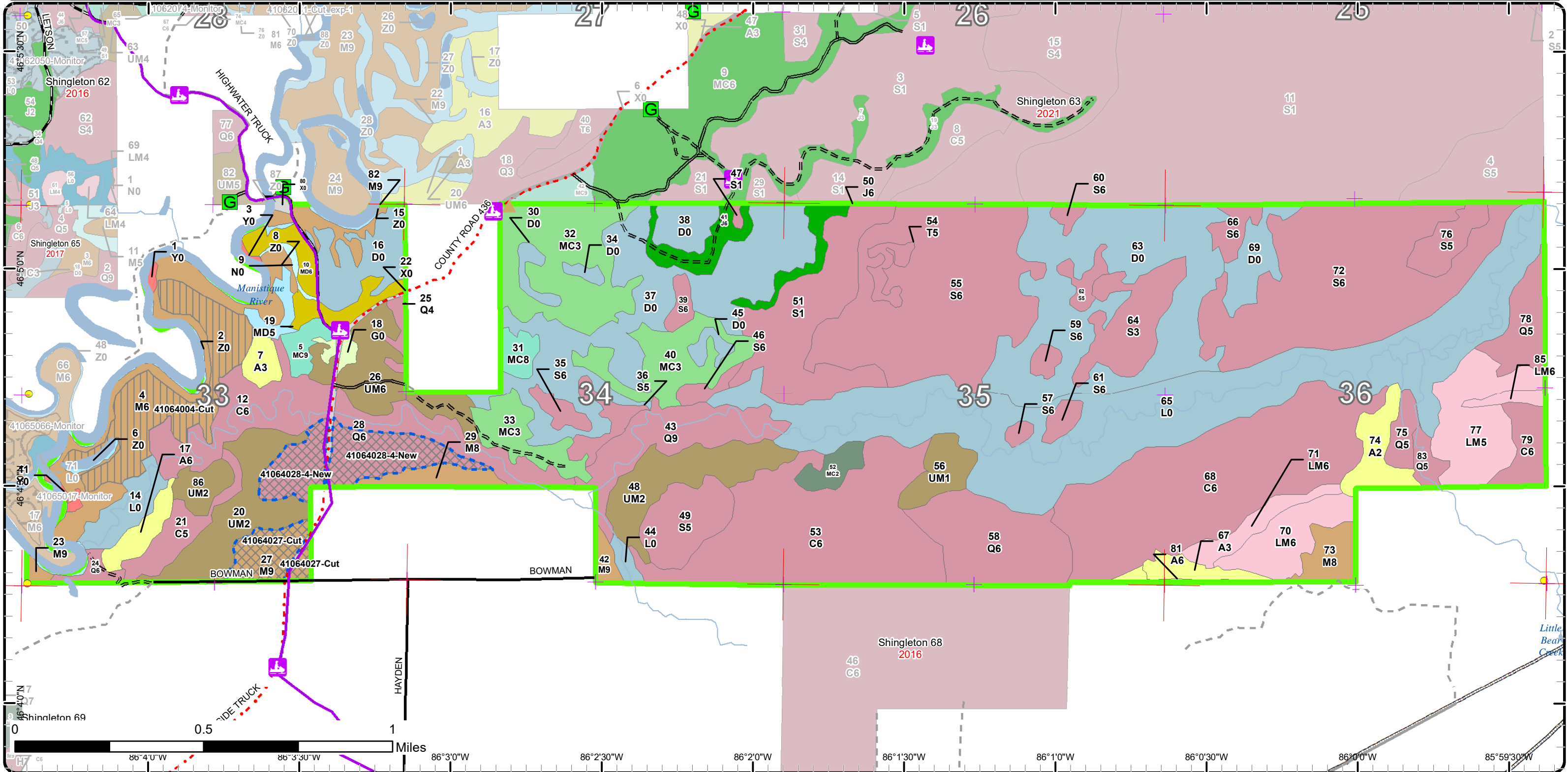
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 64
 T43N, R14W, Sec. 33-36
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Manistique Swamp
 YOE: 2024
 Acres: 2120.9 GIS Calculated
 Examiner: Sheila Clark
 Map Revised: 8/17/2022
 Map Phase: Web Post

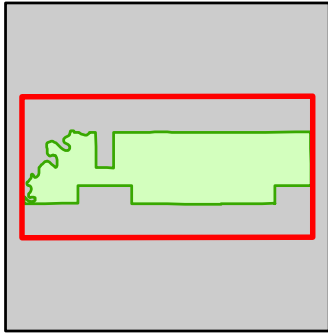


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- ↕ Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Berms
- G Gate
- Bridges
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- X Selection (Group, Single Tree)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 730 - Mud Flats

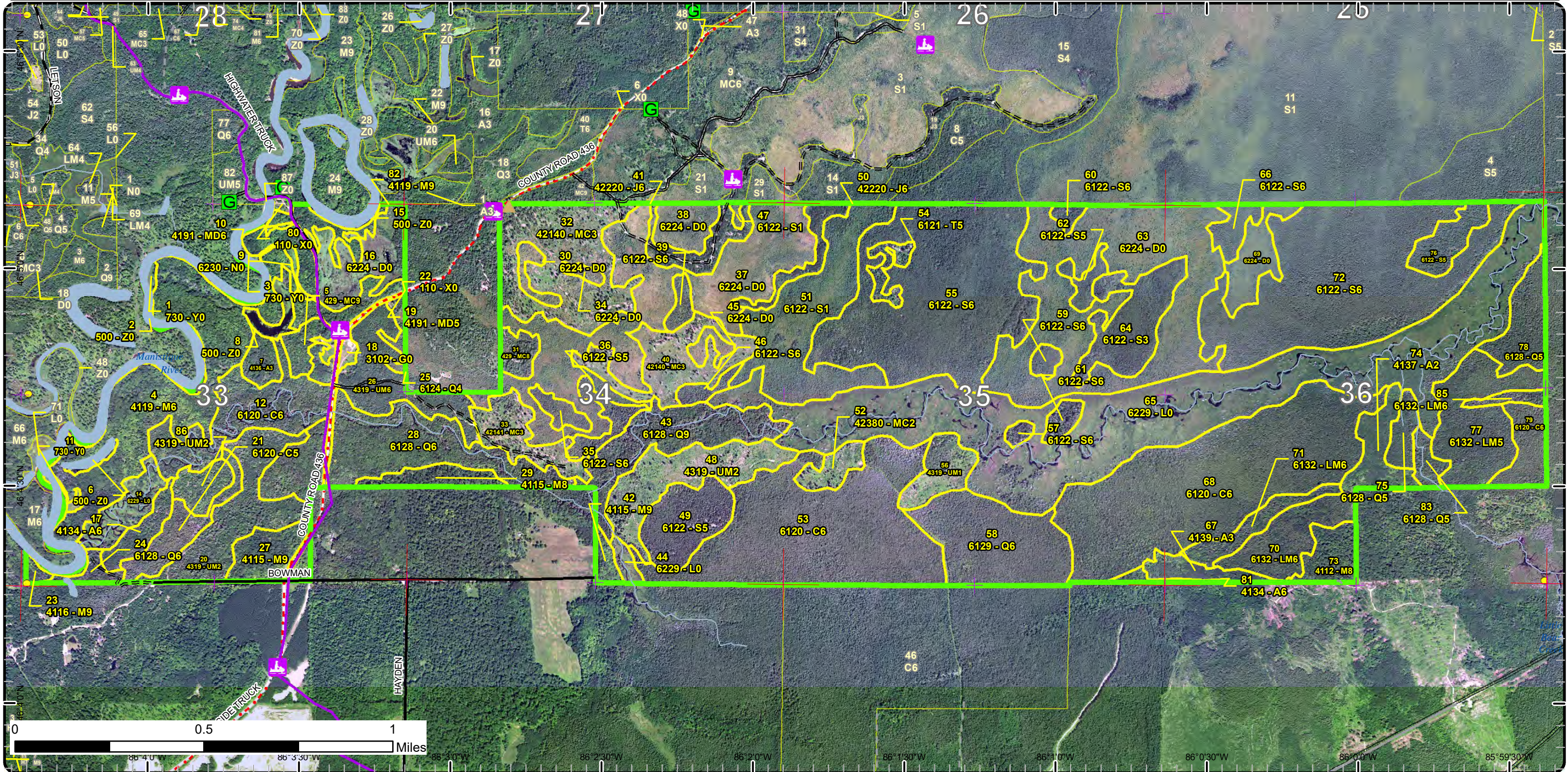


Stand Boundary Map

Compartment: 64
 T43N, R14W, Sec. 33-36
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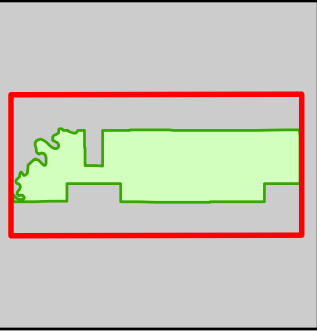


- Miris Corners
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- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
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- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers

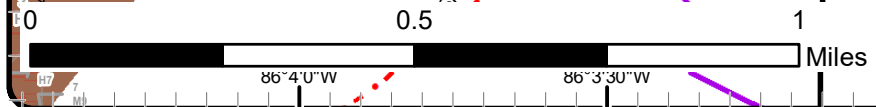
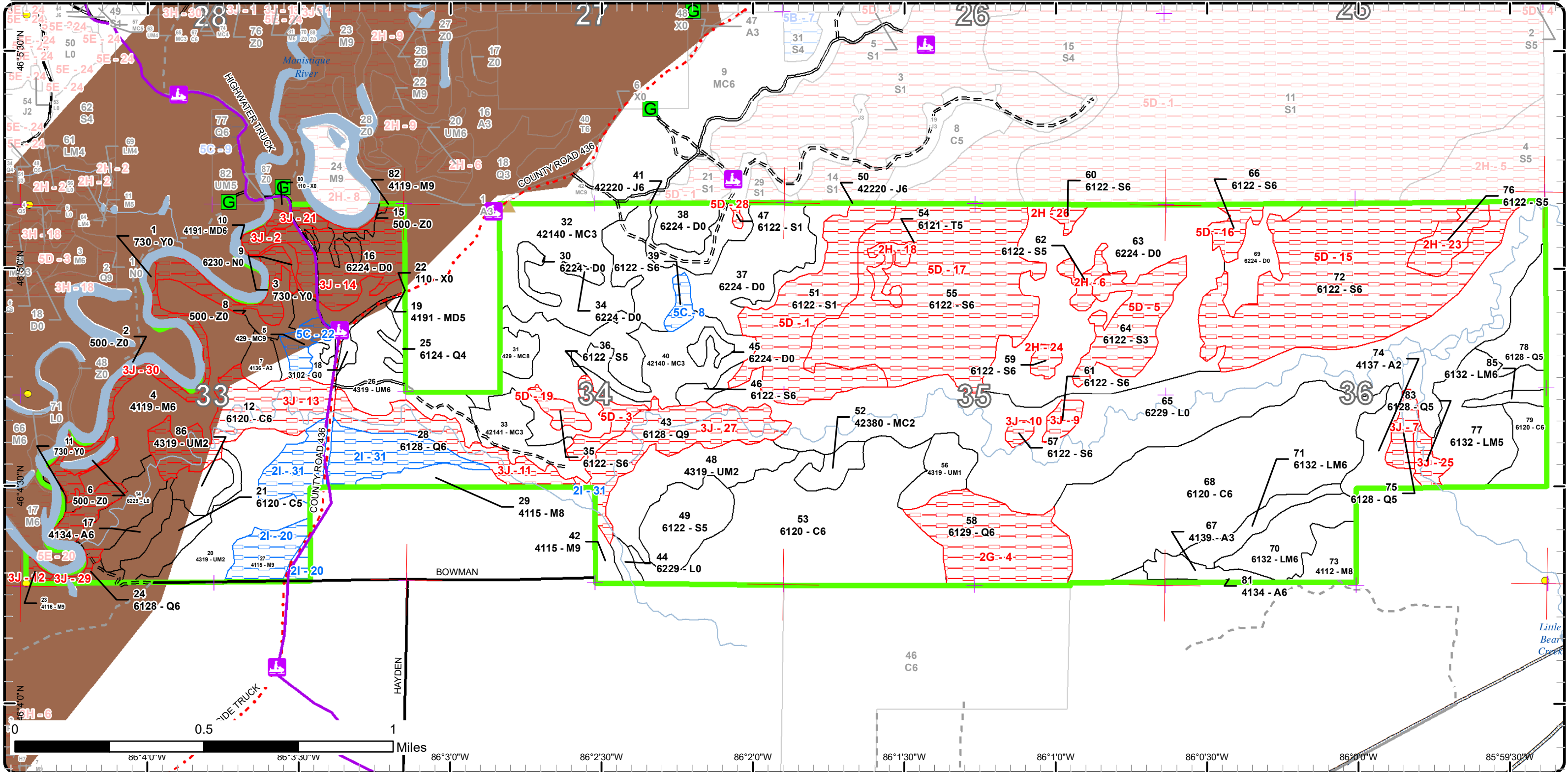


Special Conservation Areas

Compartment: 64
 T43N, R14W, Sec. 33-36
 County: Schoolcraft
 Unit: Shingleton
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- G Gate
- Bridges
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Cold Water Streams
- Deer Winter Range



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	7	25	0	10	3	0	0	0	0	0	0	0	0	0	0	0	0	45
Cedar	0	0	0	0	0	16	0	117	0	41	14	138	0	0	0	0	0	0	326
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Conifers	0	0	0	0	4	0	5	19	0	102	14	50	0	0	0	0	0	0	194
Lowland Mixed Forest	0	0	0	0	0	0	0	40	0	0	41	0	0	0	0	0	0	0	81
Lowland Shrub	249	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	248
Lowland Spruce/Fir	0	0	0	0	0	0	0	39	0	357	7	31	9	0	0	0	0	0	442
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	0	0	0	10	0	0	9	0	0	0	0	0	0	0	19
Northern Hardwood	0	0	0	0	0	0	0	2	0	111	22	0	0	0	0	0	0	11	146
Planted Mixed Pines	0	0	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107
Sand, Soil	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Tamarack	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Treed Bog	287	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	287
Upland Conifers	0	0	8	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	22
Upland Mixed Forest	0	0	49	48	34	0	0	0	0	0	0	0	0	0	0	0	0	0	131
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Water	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Total	579	7	189	48	70	19	5	227	0	631	107	219	9	0	0	0	0	11	2119



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 64
Total Compartment Acres: 2,121

Commercial Harvest - 50
Harvests with Site Condition - 56
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 Conifers	0	39	0	0	0	0	0	0	0	39
Northern Hardwood	0	17	0	0	51	0	0	0	0	68
Total	0	56	0	0	51	0	0	0	0	107

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	107	0	0	0	0	0	0	0	0	107
Next Step	0	0	0	0	0	0	107	0	0	107
Total	107	0	0	0	0	0	107	0	0	213



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	Habitat Cut
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Proposed Treatments:

4	41064004-Cut	50.5	4119 - Mixed Northern Hardwoods	Poletimber Well	84	81-110	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Leave a 25-foot buffer along the Manistique River. Within the RMZ stand will be thinned to 60 square feet, focusing on thinning from above. <u>Specs:</u> Outside of the RMZ the stand will be thinned to 40-50 BA. Red line will be used to keep operations around old oxbows to a minimum. No tops are to be felled into the excluded areas. Winter harvest for deer yard management. Leave cedar, hemlock, birch except for operability. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any current species. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
27	41064027-Cut	17.4	4115 - Y.Birch, Hemlock NH	Sawtimber Well	86	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Thin stand to 80ba using complete marker guidelines. Concentrate on making quality canopy gaps. Winter harvest for deer yard management. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any current species. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2023</p>											
28	41064028-4- New	38.7	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	86	111- 140	Harvest	Group Selection	612 - Lowland Coniferous Forest	Two-Aged	No
<p><u>Prescription</u> Harvest all trees except hemlock and cedar. Hemlock and cedar can be marked for operability. Leave some healthy birch. Winter harvest. <u>Specs:</u> Northern boundary will be at the top of the bank, parts may be within the RMZ. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any current species <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2023</p>											

**Total Treatment
Acreage Proposed: 106.6**

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment: 64
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		2I	5C	2G	2H	3J	5D	
45	45	0	0	Aspen							
326	287	0	39	Cedar					39		
3	3	0	0	Herbaceous Openland							
22	22	0	0	Jack Pine							
189	24	39	127	Lowland Conifers	39		50		77		
81	81	0	0	Lowland Mixed Forest							
248	248	0	0	Lowland Shrub					0		
443	30	5	408	Lowland Spruce/Fir		5		25	7	376	
2	2	0	0	Marsh							
19	10	0	9	Mixed Upland Deciduous					9		
145	79	17	49	Northern Hardwood	17				49		
107	107	0	0	Planted Mixed Pines							
4	4	0	0	Sand, Soil					0		
6	0	0	6	Tamarack				6			
287	261	0	26	Treed Bog					26		
22	15	7	0	Upland Conifers		7					
131	131	0	0	Upland Mixed Forest							
7	7	0	0	Urban							
27	27	0	0	Water					0		
2,116	1,384	68	664	Total Forested Acres	56	12	50	31	207	376	
	65%	3%	31%	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	Unavailable	5D: Unproductive Forest Land	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Sheila Clark : Examiner

Compartment: 64

Year of Entry: 2024

2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5D: Unproductive Forest Land	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	50	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: spoke with WLD on treating stands- this one is of poor quality and WLD would like to hold it.							
5	Unavailable	5D: Unproductive Forest Land	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments: stand is roughly 98 years old and has a dbh of 4" on average. high water table is keeping the stand from growing well.							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: this is a small stand with not much volume. it will hold until the adj stand 55 can be treated , which has more acres.							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment: 64
Year of Entry: 2024

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: small area treat when surrounding stands are harvested.							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: stand within the buffer of the creek.							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is only 3 acres and most of it would be in the river buffer. Access through private also. Unlikely this stand will ever get harvested							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Bear Creek							

Report 4 – Site Conditions

Shingleton Mgt. Unit
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Compartment: 64
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14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5D: Unproductive Forest Land	132	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is over 80 years old, however the trees are short (2 to 4 sticks) and the water is high. Due to these factors and the inaccessibility of the stand it will be difficult to treat.							
16	Unavailable	5D: Unproductive Forest Land	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is over 80 years old, however, the water table is high and will be difficult to access. Due to these factors the stand it will be difficult to treat.							
17	Unavailable	5D: Unproductive Forest Land	129	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is over 80 years old, however the trees are short (2 to 4 sticks) and the water table is high. Stocking is variable. Due to these factors and the inaccessibility of the stand it will be difficult to treat.							
18	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand has very little volume. Many trees have died due to high water table. Access is very difficult and the cost would not justify the timber presents.							
19	Unavailable	5D: Unproductive Forest Land	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is over 80 years old, however the trees are short (2 to 4 sticks) and the water table is high. Due to these factors and the inaccessibility of the stand it will be difficult to treat.							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment: 64
Year of Entry: 2024

20	Available	2I: Survey needed	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Let stand 7 grow taller before cutting this stand.							
23	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
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26	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	5D: Unproductive Forest Land	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Available	2I: Survey needed	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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



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
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
1	730 - Mud Flats	Nonstocked	1.2		Unspecified	No																																																																						
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4	4119 - Mixed Northern Hardwoods	Poletimber Well	89.1	84	81-110	N/A	2021 - Stand had some areas managed for Crop cutting in the mid 50's. No maps or better description was given. Can see some evidence when walking through stand. treat using "big Tree" management? 2022 - There is some ash in the stand however not harvesting it is a low percentage of the spp mix.																																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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7	4136 - Aspen, Mixed Conifer	Sapling Well	6.8	5	Immature	N/A	Finished cutting end of 2016.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	40	Sapling	2	5	Red Maple	Low	Variable	Pole
Red Maple	40	Sapling	2	5	Black Spruce	Low	Variable	Pole
Balsam Fir	5	Sapling	2	5	Northern White Cedar	Low	Variable	Pole
Black Spruce	5	Pole	9					
Hemlock	5	Pole	9					
Northern White Cedar	5	Pole/Log	9					

8	500 - Water	Nonstocked	6.1			No	
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Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low		Tall Shrub
Red Maple	Trace		Pole
Balsam Fir	Trace		Pole
Sedges	Low		Non-Wood
Northern White Cedar	Trace		Pole
Labrador Tea	Low		Tall Shrub
Cattail spp.	High		Non-Wood

9	6230 - Cattail	Nonstocked	1.9			No	old ox bow that has water present even in winter
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Sub-Canopy Species	Density	Avg. Height	Size
Bog Birch	Low		Tall Shrub
Sedges	Low		Non-Wood
Sedges	Low		Non-Wood
Cattail spp.	Full		Non-Wood

10	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	9.1	97	81-110	N/A	2012 - Hemlock, cedar present. Poor quality wood with a high water table - certain times of the year the stand could be classified as lowland. There may be some areas near the river that could be treated when mature. There are many small ox bows in and around the stand. Most will have water present in wet year. Patches of young white spruce scattered.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Pole/Sapling	7		Red Maple	Low	5 - 10 feet	Sapling
Sugar Maple	15	Pole/Log	9		Black Spruce	Low	5 - 10 feet	Sapling
Red Maple	25	Log/Pole	10	97	Northern White Cedar	Low	5 - 10 feet	Sapling
Balsam Poplar	15	Pole/Sapling	7	64	Tag Alder	Low	Variable	Tall Shrub
White Ash	5	Pole/Sapling	6					
Black Spruce	15	Pole/Sapling	6					
Quaking Aspen	15	Pole/Sapling	5					

11	730 - Mud Flats	Nonstocked	1.8			No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12	6120 - Lowland Cedar	Poletimber Well	40.6	88	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	55	Pole	8	88	Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	5	Log/Pole	13					
Black Ash	10	Pole/Sapling	6					
Hemlock	5	Log/Pole	10	88				
Black Spruce	10	Pole/Sapling	6					
Paper Birch	5	Pole	7					
Red Maple	10	Pole	7					

14	6229 - Mixed lowland shrub	Nonstocked	14.8		Unspecified	No	Bear Creek
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Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low		Sapling
Northern White Cedar	Trace		Sapling
Tag Alder	High		Tall Shrub

15	500 - Water	Nonstocked	3.1		Unspecified	No	2012 - Old oxbow from Manistique River.
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16	6224 - Treed Bog	Nonstocked	25.9		Unspecified	No	2012 - Entire river area is flat. Species varies from tag alder to open to small scattered cedar to scattered fir and spruce and various ages of red maple- flood plain area part of deer wintering area.
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Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low		Log
Paper Birch	Trace		Pole
Red Maple	Low		Pole
Bog Birch	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	Trace		Pole
Tag Alder	Medium		Tall Shrub

17	4134 - Aspen, Spruce/Fir	Poletimber Well	9.8	36	51-80	N/A	2012 - Cut in 1985 under 108-81.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole/Sapling	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Tamarack	5	Pole/Sapling	6					
Hemlock	5	Pole	8					
Red Maple	10	Sapling/Pole	4					
Northern White Cedar	5	Pole	7					
Paper Birch	10	Pole/Sapling	6					
Balsam Fir	15	Sapling	4					
Quaking Aspen	40	Pole/Sapling	6	36				

2022 - Stand is healthy.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
18	3102 - Grass	Nonstocked	3.4		Unspecified	No	2012 - grass opening around the county road. There is some WP and Aspen WB, RM starting to come in. Lots of purple spotted knapweed. When out with WLD it was decided to do some opening maintenance through TS work. If adjacent stands get treated this stand should also be part of the sale.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Trace		Sapling	
								Red Maple	Trace		Sapling	
								White Pine	Low		Pole	
Paper Birch	Low		Sapling									
19	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	10.3	66	81-110	N/A	2012 - Stand is old opening from when the road went through and is filling in. Many spp present but about the same age. Manage stand when mature.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	3	Log	14	
								Red Pine	2	Log	14	
								Hemlock	15	Log	14	
								Red Maple	35	Pole/Sapling	7	66
								Paper Birch	15	Pole/Sapling	7	
								Quaking Aspen	15	Pole/Log	9	
								Northern White Cedar	5	Pole/Sapling	6	
								Black Spruce	10	Pole/Sapling	7	
20	4319 - Mixed Upland Forest	Sapling Medium	38.1	24	111-140	N/A	2012 - Final harvest in 1997 37-95, no cut hemlock, wp, cedar that is scattered through stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Paper Birch	20	Sapling	3	24
								Quaking Aspen	15	Sapling	3	24
								Northern White Cedar	5	Pole	9	
								White Pine	5	Log/Pole	10	
								Black Cherry	10	Sapling	3	
								Balsam Fir	20	Pole/Sapling	6	
								Black Spruce	15	Pole/Sapling	6	
								Hemlock	10	Log/Pole	10	
Sub-Canopy Species	Density	Avg. Height	Size									
Tag Alder	Low	< 5 feet	Tall Shrub									
Quaking Aspen	Low	< 5 feet	Sapling									
Paper Birch	Low	< 5 feet	Sapling									
21	6120 - Lowland Cedar	Poletimber Medium	15.8	43	51-80	N/A	2012 - Very nice regen of cedar and the other spp present. 2022 - Stand is healthy.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Paper Birch	10	Pole	6	
								Balsam Fir	5	Pole/Sapling	6	
								Quaking Aspen	10	Pole/Sapling	6	
								Black Spruce	5	Pole/Sapling	6	
								Tamarack	15	Pole/Sapling	7	
								White Pine	5	Log	14	
								Northern White Cedar	50	Pole	6	43
								Sub-Canopy Species	Density	Avg. Height	Size	
Tag Alder	Medium	5 - 10 feet	Tall Shrub									
Balsam Fir	Medium	5 - 10 feet	Sapling									
Northern White Cedar	Low	< 5 feet	Sapling									
22	110 - Low Intensity Urban	Nonstocked	5.6			No						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23 4116 - Mixed N. Hardwood - Aspen Sawtimber Well 2.0 66 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bur Oak	2	XLog/Log	20		Red Maple	Low	Variable	Sapling
Red Maple	54	Log/Pole	10	66	Green Ash	Low	Variable	Sapling
Quaking Aspen	20	Pole/Sap/Log	9		Balsam Fir	Low	Variable	Sapling
Basswood	2	Log/Pole	10					
Sugar Maple	20	Log/Pole	10					
Northern White Cedar	2	Pole/Sapling	7					

24 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 4.9 55 81-110 N/A

2012 - More than likely part of the same crop cuts as pre-in stand 19 but started here first. Trees are larger diameter than adjacent stand. good regen and spp mix.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	30	Pole/Sapling	7	55
White Pine	5	Pole/Log	8	
Paper Birch	10	Pole/Sapling	7	
Balsam Fir	15	Pole/Sapling	7	
Tamarack	15	Pole	8	
Black Spruce	15	Pole/Sapling	7	
Quaking Aspen	10	Pole/Sapling	7	

25 6124 - Lowland Spruce-Fir Poletimber Poor 4.3 34 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	25	Pole	6	34	Quaking Aspen	Low		Sapling
Red Pine	10	Log/Pole	10		Black Spruce	Medium		Sapling
White Pine	10	Log	14		Tag Alder	Medium		Tall Shrub
Tamarack	5	Pole/Sapling	6					
White Spruce	15	Log/Pole	12	62				
Black Spruce	35	Sapling	4	34				

26 4319 - Mixed Upland Forest Poletimber Well 33.5 36 81-110 N/A

2012 - Stand was cut in 1985. SE area of stand becomes lower ground as you get closer to the creek. Stand contains wb, rp, wp.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	15	Sapling	4	
Black Spruce	15	Pole/Sapling	5	
White Pine	20	Pole/Sapling	7	
Red Pine	5	Pole	8	
Balsam Poplar	5	Sapling	4	
Quaking Aspen	40	Pole/Sapling	5	36



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
27	4115 - Y.Birch, Hemlock NH	Sawtimber Well	17.4	86	81-110	N/A	2012 - Stand was treated in 85 under cut 108-83, Ancillary data from 10 years ago shows a good number of trees in the 10" category. The cut was heavy enough another 10 years will be needed to thin/grow out the saplings before harvesting.																																																															
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28	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	64.2	86	111-140	N/A	2002 - comments for old stand along creek ---nice mature cedar with a mix of mature maple, ash, fir, spruce would be nice to treat stand for regeneration purposes but because of the river much of the acreage would be reduced. 2012 - Contains pockets of RM trees - rolling to flat terrain with areas of lower ground-few wpn trees. Near the road there is more cedar. Treatment may be possible to help promote regeneration. File records indicate that crop cuts were done in this stand removing most of the deciduous spp and some conifer in the early 60's.																																																															
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29	4115 - Y.Birch, Hemlock NH	Sawtimber Medium	10.7	95	51-80	N/A	2012 - Stand was treated in 2006 under contract 28-04, check for regeneration in the stand. There was hemlock, ash and basswood in the stand. Stand was hit pretty good by browse. looks like they saplings are still coming through - should get another check in a couple years to see what happens. 2022 - Stand healthy.																																																															
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32	42140 - Planted Mixed Pine	Sapling Well	56.4	13	Immature	N/A	2012 - Stand treated in 2008 under contract 21-04. Planted, doing well. There is also residual Red and White Pine in the stand that was left after the cut. The BA ranges from 0-30 BA average DBH is 7-12"																																								
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33	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	19.2	13	Immature	N/A	This stand has been updated from a field evaluation for a project on free to grow red pine. super canopy red and white pine.																																								
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36	6122 - Black Spruce	Poletimber Medium	9.2	86	1-50	N/A																																									
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37	6224 - Treed Bog	Nonstocked	105.1			No																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
38	6224 - Treed Bog	Nonstocked	11.7		Unspecified	No	2012 - Large treed bog around the stands. There are areas that have some 1-3" spruce doing poorly.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Trace		Sapling	
								Black Spruce	Medium		Sapling	
								Northern White Cedar	Trace		Sapling	
39	6122 - Black Spruce	Poletimber Well	4.6	116	81-110	N/A	2012 - Very wet ground- winter work only some blow down but things are good overall- scattered cedar same age, Site productivity is very poor, stand hasn't gained anything in 10 years. if anything is cut near it could come in and treat but it is not worth it alone.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern White Cedar	5	Pole	7	
								Black Spruce	95	Pole	7	116
								Sub-Canopy Species	Density	Avg. Height	Size	
Tag Alder	Low	< 5 feet	Tall Shrub									
Leatherleaf	Low	< 5 feet	Tall Shrub									
Black Spruce	Low	< 5 feet	Seeding									
40	42140 - Planted Mixed Pine	Sapling Well	31.3	13	Immature	N/A	2012 - Stand treated in 2008 under contract 21-04. Planted, doing well. There is also residual Red and White Pine in the stand that was left after the cut. The BA ranges from 0-30 BA average DBH is 7-12". This stand has been updated from a field evaluation for a project on free to grow red pine. 2022- This stand is mixed. There are super-canopy red pine, planted red pine on the high ground. The low ground is either black spruce and jack pine or non-stocked.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	5	Sapling	1	
								Black Spruce	15	Sapling	1	
								Red Pine	15	Pole/Log	9	67
								Red Pine	40	Sapling	1	13
								Jack Pine	25	Sapling	1	
41	42220 - Natural Jack Pine	Poletimber Well	13.3	37	111-140	N/A						
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Spruce	10	Sapling	4	
								Tamarack	10	Sapling	4	
								Jack Pine	70	Pole/Sapling	5	37
Sub-Canopy Species	Density	Avg. Height	Size									
Tag Alder	Low	Variable	Tall Shrub									
Labrador Tea	Low	Variable	Tall Shrub									
42	4115 - Y.Birch, Hemlock NH	Sawtimber Well	4.4	86	81-110	N/A	2012 - Stand has slopes towards the creek, mild to steep, fringe near creek has small fir- true mixed stand spp. 2022 - Small opening on west side.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern White Cedar	5	Pole	9	
								Hemlock	5	Pole	9	
								Sugar Maple	35	Log/Pole	14	86
								Red Maple	15	Log/Pole	14	
								Yellow Birch	25	Log/Pole	12	
								Paper Birch	5	Pole	9	
								Quaking Aspen	5	Pole	8	
Ironwood	5	Pole/Sapling	7									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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43 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 37.9 88 81-110 N/A 2012 - Species are ready for treatment but b/c of the proximity to the river it really isn't feasible. Nice timber.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	7		Black Spruce	Low	5 - 10 feet	Sapling
Black Ash	5	Pole/Sapling	7		Northern White Cedar	Low	5 - 10 feet	Sapling
Yellow Birch	5	Pole	7		Black Ash	Low	5 - 10 feet	Sapling
Paper Birch	5	Pole/Sapling	7		Tag Alder	Low	Variable	Tall Shrub
Balsam Fir	5	Pole/Sapling	6					
Black Spruce	10	Pole/Sapling	7					
Northern White Cedar	45	Log/Pole	12	88				
Balsam Poplar	10	Pole	9					
Hemlock	10	Pole/Log	9	88				

44 6229 - Mixed lowland shrub Nonstocked 3.6 Unspecified No low area around Bear Creek

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High		Tall Shrub

45 6224 - Treed Bog Nonstocked 4.0 Unspecified No 2012 - Treed bog surrounded by a recent cut.

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Full		Sapling
White Pine	Trace		Pole

46 6122 - Black Spruce Poletimber Well 4.4 116 51-80 N/A 2012 - Very wet ground- winter work only some blow down but things are good overall- scattered cedar same age, Site productivity is very poor, stand hasn't gained anything in 10 years. if anything is cut near it could come in and treat but it is not worth it alone.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Pole/Log	8		Leatherleaf	Low	< 5 feet	Tall Shrub
Northern White Cedar	5	Pole	6		Northern White Cedar	Low	5 - 10 feet	Sapling
Black Spruce	90	Pole/Sapling	7	116	Black Spruce	Low	5 - 10 feet	Sapling
					Tag Alder	Low	< 5 feet	Tall Shrub

47 6122 - Black Spruce Sapling Poor 1.0 89 51-80 N/A stand filling in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	20	Sapling/Pole	4		Northern White Cedar	Trace		Sapling
Black Spruce	80	Sapling/Pole	4	89	Jack Pine	Trace		Sapling
					Black Spruce	Low		Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
48	4319 - Mixed Upland Forest	Sapling Medium	35.1	14	Immature	N/A	Stand was cut in 2008 under contract 42-04- Now that stand is cut you can see it is a mix of upland and lowland. There is excellent regeneration, aspen/fir is doing well on the high ground and spruce/jack pine on the low ground. Reserve sp. of cedar/hemlock are staying wind firm.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Black Spruce	20	Sapling	1		Blueberry/Bilberry/Cranberry	Low	Variable	Tall Shrub
	Quaking Aspen	35	Sapling	1	14	Leatherwood	Low	Variable	Tall Shrub
	Balsam Fir	20	Sapling	1		Tag Alder	Low	Variable	Tall Shrub
	Northern White Cedar	5	Pole/Log/Sap	8					
	Tamarack	5	Sapling	1					
	Hemlock	5	Pole/Log/Sap	9					
	Paper Birch	10	Sapling	2					
49	6122 - Black Spruce	Poletimber Medium	25.7	69	51-80	N/A	2012 - cut before acquired by the state, stand is getting closer to maturity. Looks healthy.		
							2022- low volume. small diameter 2-4 stick black spruce.		
	Canopy Species	% Cover	Size Class	DBH	Age				
	Black Spruce	80	Pole/Sapling	7	69				
	Northern White Cedar	5	Pole	9					
	Tamarack	10	Pole/Sapling	7					
	Hemlock	5	Pole	9					
50	42220 - Natural Jack Pine	Poletimber Well	9.1	37	111-140	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Tamarack	10	Sapling	4		Tag Alder	Low	Variable	Tall Shrub
	Jack Pine	80	Pole/Sapling	5	37	Leatherleaf	Low	Variable	Tall Shrub
	Black Spruce	10	Sapling	4		Black Spruce	Low	Variable	Sapling
51	6122 - Black Spruce	Sapling Poor	60.2	89	1-50	N/A	2012 - Large treed bog around the stands. There are 1/10 acre areas that have some 1-3" spruce doing poorly.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Northern White Cedar	25	Sapling	1		Northern White Cedar	Low	5 - 10 feet	Pole
	Paper Birch	5	Sapling	2		Leatherleaf	Low	< 5 feet	Tall Shrub
	Black Spruce	50	Sapling	4	89	Tag Alder	High	10 - 20 feet	Tall Shrub
	Tamarack	20	Sapling/Pole	3		Tamarack	Low	>20 feet	Pole
						Balsam Fir	Low	5 - 10 feet	Sapling
						Black Spruce	Low	5 - 10 feet	Pole
52	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Medium	8.3	14	1-50	N/A	Stand was cut in 2008 under contract 42-04- Now that stand is cut you can see it is a mix of upland and lowland. There is excellent regeneration, aspen/fir is doing well on the high ground and spruce/jack pine on the low ground. Reserve species of cedar/hemlock are staying wind firm.		
							Stand was cut in 2008 under contract 42-04- regen good, close off of time clock.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Black Spruce	40	Sapling	1	14	Labrador Tea	Low	Variable	Tall Shrub
	Northern White Cedar	3	Pole/Log	9		Blueberry/Bilberry/Cranberry	Low	Variable	Tall Shrub
	Hemlock	2	Pole/Log	8		Leatherleaf	Low	Variable	Tall Shrub
	Paper Birch	5	Sapling	2		Tag Alder	Low	Variable	Tall Shrub
	Quaking Aspen	30	Sapling	1	14				
	Balsam Fir	15	Sapling	1					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
53	6120 - Lowland Cedar	Poletimber Well	117.4	67	51-80	N/A	2012 - High water table will keep this stand poor quality - surrounding timber is ridged making for better drainage - scattered small maple/birch with some pockets of 5-10 cedar trees - scattered fir, rmp, tamarack.																																																													
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54	6121 - Tamarack	Poletimber Medium	6.4	83	1-50	N/A	Knob surrounded by spruce.																																																													
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55	6122 - Black Spruce	Poletimber Well	128.7	83	81-110	N/A	2012 - scattered 1-3" tamarack and wbr. This stand is fully stocked w/ small DBH and short trees - some scattered pockets of open - some have 5-10" cedar 4-5 at a time - area is very wet.																																																													
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56	4319 - Mixed Upland Forest	Sapling Poor	14.3	14	1-50	N/A	Stand was cut in 2008 under contract 42-04. The stand is a mix of upland and lowland. There is excellent regeneration, aspen/fir is doing well on the high ground and spruce/jack pine on the low ground. Reserve spp of cedar/hemlock are staying wind firm.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
57	6122 - Black Spruce	Poletimber Well	2.3	98	81-110	N/A	Comments from 20 years ago -same as stand to the W slightly higher elevation some scattered large RP. some scattered small BS and tam.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		5	Pole/Sapling	8		Tag Alder	Low	Variable	Tall Shrub
Black Spruce		65	Pole/Sapling	8	98	Black Spruce	Low	Variable	Sapling
White Pine		5	Log/Pole	12					
Red Pine		10	Log/Pole	12					
Northern White Cedar		5	Pole	8					
Paper Birch		5	Pole/Sapling	8					
Tamarack		5	Pole/Sapling	8					
58	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	49.8	106	51-80	N/A	2012 - stand is similar to stand to E - same age/quality - anytime there is an opening there is more tag alder - any hardwood topes seen on the photo are 2-5" black ash - scattered fir		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		5	Pole/Sapling	6		Bog Birch	Low	Variable	Tall Shrub
Black Spruce		40	Pole/Sapling	7	106	Balsam Fir	Low	Variable	Sapling
Northern White Cedar		40	Pole/Sapling	7	106	Black Spruce	Low	Variable	Sapling
Black Ash		5	Pole/Sapling	5		Tag Alder	Low	Variable	Tall Shrub
Tamarack		10	Pole/Sapling	7		Northern White Cedar	Low	Variable	Sapling
59	6122 - Black Spruce	Poletimber Well	3.6	83	1-50	N/A	2012 - scattered 1-3" tamarack and wb- this stand is fully stocked w/ small DBH and short trees - some scattered pockets of open - some have 5-10" cedar 4-5 at a time - area is very wet		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		10	Pole/Sapling	7		Leatherleaf	Low	Variable	Tall Shrub
Black Spruce		90	Pole/Sapling	7	83	Tag Alder	Low	Variable	Tall Shrub
60	6122 - Black Spruce	Poletimber Well	2.8	82	Unspecified	N/A	[comments from 20 years ago -same as stand to the W slightly higher elevation some scattered large RP. some scattered small BS and tam.] last entry BS 40 BA with 6 dbh, scattered wp, rp, tam on the ridge areas.		
61	6122 - Black Spruce	Poletimber Well	4.9	98	81-110	N/A	2012 - small islands of conifer with the low type that buffers Bear Creek- will not be cut b/c of size and buffer specs that would have to be followed.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		5	Pole/Sapling	8		Black Spruce	Low	Variable	Sapling
Black Spruce		65	Pole/Sapling	8	98	Tag Alder	Low	Variable	Tall Shrub
Tamarack		5	Pole/Sapling	8		Bog Birch	Low	Variable	Tall Shrub
White Pine		5	Log/Pole	12		Labrador Tea	Low	Variable	Tall Shrub
Northern White Cedar		5	Pole	8		Balsam Fir	Medium	Variable	Sapling
Paper Birch		5	Pole/Sapling	8					
Red Pine		10	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
62	6122 - Black Spruce	Poletimber Medium	5.8	83	1-50	N/A	2022 - was not able to visit, based on photo stand does not look changed. Low ground and factor limited.																																					
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63	6224 - Treed Bog	Nonstocked	117.7		Unspecified	No	2012 - large treed bog around the stands. there are 1/10 acre areas that have some 1-3" spruce doing poorly.																																					
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64	6122 - Black Spruce	Sapling Well	31.0	108	Unspecified	N/A	2012 - stand looks healthy but will never be a merchantable stand b/c of the high water table keeping the trees from growing. SI is only 20 for BS- it's like a fully stocked treed bog. where there is some elevation change JP can be found.																																					
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65	6229 - Mixed lowland shrub	Nonstocked	230.1		Unspecified	No	2012 - area is low wet ground with areas that have some clumps of spruce, cedar and other lowland types.																																					
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66	6122 - Black Spruce	Poletimber Well	7.8	82	1-50	N/A	2012 - fully stocked, dense stand - scattered wb, tamarack-																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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67 4139 - Aspen, Mixed Deciduous Sapling Well 9.0 17 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling/Pole	2		Black Spruce	Low	Variable	Sapling
Paper Birch	5	Pole	6		Wild Red Raspberry	High	Variable	Tall Shrub
Balsam Poplar	20	Sapling	2		Red Maple	High	Variable	Sapling
Hemlock	5	Pole	8		Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	5	Sapling	2					
Black Ash	5	Sapling	2					
Quaking Aspen	50	Sapling	2	17				

68 6120 - Lowland Cedar Poletimber Well 138.1 106 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	30	Pole	9		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	50	Pole/Log	9	106	Tag Alder	Low	Variable	Tall Shrub
Paper Birch	10	Pole	9		Northern White Cedar	Low	Variable	Sapling
Red Maple	10	Pole	9					

69 6224 - Treed Bog Nonstocked 15.8 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Labrador Tea	Medium		Tall Shrub
Black Spruce	Low		Sapling
Tag Alder	Medium		Tall Shrub
Leatherleaf	Medium		Tall Shrub

70 6132 - Mixed Lowland Forest with Cedar Poletimber Well 24.4 99 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	8		Black Spruce	Low	5 - 10 feet	Sapling
Black Ash	5	Pole/Sapling	6					
Paper Birch	10	Pole	8					
Balsam Poplar	10	Pole	8					
Balsam Fir	5	Pole	7					
Black Spruce	5	Pole	7					
Northern White Cedar	40	Pole	8	99				
Hemlock	5	Pole	8					
Quaking Aspen	10	Pole	8					

2012 - transition from cedar type to the north, some scattered wb logs, scattered cedar, yb on higher ground. This was supposed to be set up with the surrounding stands but examiners said that there was too much cedar for operability - with the lack of deer browse and the amount of regen we are getting with the other cuts it is still a good stand to treat - this time with cedar cut out.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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71	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	12.3	92	81-110	N/A	piece to the east. higher ground. dead spruce. balsam fir understory. red maple saplings. birch aspen balsam fir
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Pole/Log	9		Balsam Fir	Low	Variable	Sapling
Balsam Fir	5	Pole	8		Blueberry/Bilberry/Cranberry	Low	Variable	Tall Shrub
Red Maple	20	Log/Pole	12					
Paper Birch	10	Pole/Log	9					
Northern White Cedar	30	Pole/Log	9	92				
Black Spruce	15	Pole/Log/Sap	9					

72	6122 - Black Spruce	Poletimber Well	132.2	82	1-50	N/A	2012 - stocked - dense stand - scattered wb, tamarack. This stand has D types surrounding it. High water table is slowing growth of the spruce
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	5	Pole/Sapling	6		Tag Alder	Low	Variable	Tall Shrub
Black Spruce	80	Pole/Sapling	7	82	Black Spruce	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	7					
Tamarack	5	Pole/Sapling	7					
Paper Birch	5	Pole/Sapling	7					

73	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	12.9	90	51-80	N/A	Lots of raspb. Scattered fir.ce.yb.wb in understory- nice regen with some deer browse. Hemlock areas that were left from cut are still standing and look healthy.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Log/Pole	10		Red Maple	High	Variable	Sapling
Hemlock	5	Pole/Log	8		Black Spruce	Low	Variable	Sapling
Yellow Birch	5	Log/Pole	10		Blackberry/Raspberry	High	Variable	Tall Shrub
Red Maple	80	Log/Pole	12	90	Balsam Fir	Low	< 5 feet	Sapling
Sugar Maple	5	Log/Pole	10					

74	4137 - Aspen, Birch	Sapling Medium	16.4	17	Immature	N/A	More conifer near swamp edges-stand was cut under contract 30-04-close off of time clock
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Sapling	1		Blueberry/Bilberry/Cranberry	Low	Variable	Tall Shrub
Red Maple	10	Sapling	2		Wild Red Raspberry	Low	Variable	Tall Shrub
Paper Birch	25	Sapling	2					
Quaking Aspen	45	Sapling	2	17				
Balsam Poplar	10	Sapling	2					
Black Spruce	5	Sapling	1					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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75	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	7.7	99	51-80	N/A	2012 - Stand was not typed out separately from the last inventory - some of the stand was in where the stand was recently cut then the other part is for the low area. new photo looks like there is some cedar in there.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	7		Balsam Poplar	Low	Variable	Sapling
Paper Birch	5	Pole/Sapling	7		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	15	Pole	7		Tag Alder	Medium	Variable	Tall Shrub
Black Spruce	15	Pole/Sapling	7		Black Ash	Medium	Variable	Sapling
Balsam Fir	20	Pole/Sapling	7					
Hemlock	5	Pole	8					
Northern White Cedar	25	Pole	7	99				
Black Ash	10	Pole/Sapling	6					

76	6122 - Black Spruce	Poletimber Medium	12.8	66	51-80	N/A	Spruce cuts in 1955 sale 2-55. 3" dbh in 2004
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	10	Pole/Sapling	5		Tag Alder	Low	Variable	Tall Shrub
Black Spruce	90	Pole/Sapling	5	66	Leatherleaf	Low	Variable	Tall Shrub
					Black Spruce	Low	Variable	Tall Shrub

77	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	40.3	66	51-80	N/A	2012 - Crowns fairly open, not dense. black ash through out stand, clumps of rm scattered - bam dying out. lots of old stumps was cut int he 50's ground wet some open areas. Last entry 20BA cedar, 10 BA white birch, 10 BA bam with fir and tag alder in the understory. Any where there was a slight elevation change rm would be coming up.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	5	Pole/Sapling	6	
Black Ash	20	Pole/Sapling	7	66
Paper Birch	15	Pole/Sapling	6	
Balsam Fir	15	Pole	6	
Red Maple	10	Pole/Sapling	6	
Northern White Cedar	25	Pole	8	66
Black Spruce	10	Pole/Sapling	6	

78	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	19.3	67	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	15	Pole/Sapling	6	
Tamarack	15	Pole	8	
Red Maple	10	Pole/Sapling	6	
Black Ash	10	Pole/Sapling	5	
Balsam Fir	10	Pole/Sapling	6	
Northern White Cedar	40	Pole/Sapling	6	67



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																	
79	6120 - Lowland Cedar	Poletimber Well	14.2	92	141-170	N/A	2012 - Fairly open understory - stand is young, healthy looking- occasional spruce, bk ash. Last entry 70BA cedar, 20 BA white birch with a cedar/fir understory.																																																																																	
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80	110 - Low Intensity Urban	Nonstocked	1.2			No	2022 - Cookson Bridge Site. This is a place where locals access river and fish.																																																																																	
81	4134 - Aspen, Spruce/Fir	Poletimber Well	2.7	42	81-110	N/A	2022 - Sliver of land from corner move.																																																																																	
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82	4119 - Mixed Northern Hardwoods	Sawtimber Well	8.8	97	51-80	N/A	2012 - Bur Oak is found near the river. Deer browse only on the maple not ash. There are scattered yb, hem, beech and water areas from old ox bows.																																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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85 6132 - Mixed Lowland Forest with Cedar Poletimber Well 4.2 92 81-110 N/A 2012 - scattered large dying aspen and white birch- there are clumps of rm, small spruce - cedar on the edges.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Pole/Log	9		Balsam Fir	Low	Variable	Sapling
Balsam Fir	5	Pole	8		Blueberry/Bilberry/Cranberry	Low	Variable	Tall Shrub
Black Spruce	15	Pole/Log/Sap	9					
Northern White Cedar	30	Pole/Log	9	92				
Paper Birch	10	Pole/Log	9					
Red Maple	20	Log/Pole	12					

2022 - dead spruce. balsam fir understory. red maple saplings. birch aspen balsam fir

86 4319 - Mixed Upland Forest Sapling Medium 9.6 24 111-140 N/A 2012 - Final harvest in 1997 37-95, no cut hemlock, wp, cedar that is scattered through stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log/Pole	10		Quaking Aspen	Low	< 5 feet	Sapling
Hemlock	10	Log/Pole	10		Tag Alder	Low	< 5 feet	Tall Shrub
Black Cherry	10	Sapling	3		Paper Birch	Low	< 5 feet	Sapling
Black Spruce	15	Pole/Sapling	6					
Balsam Fir	20	Pole/Sapling	6					
Quaking Aspen	15	Sapling	3	24				
Northern White Cedar	5	Pole	9					
Paper Birch	20	Sapling	3	24				