



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41088

Entry Year 2021

Acreage: 1,940

County Delta

Management Area: Escanaba Lake and Till Plain

Stand Examiner: Adam Petrelius

Legal Description:

T40N R18W Sections 1-4

Identified Planning Goals:

The main goal of this compartment is to conduct multiple resource management for current and future generations.

Soil and topography:

The topography within the compartment is mostly flat with a few steeper ridges in bordering the powerline. Elevation values range between 591-741 feet. Most of the compartment is forested with only a few stands classified as marsh or treed bog. It has a diverse mixture of forest cover types including mixed lowland conifers, aspen, jack pine, hemlock, red pine, northern hardwood, and upland spruce/fir. Numerous soil types are located in this compartment. A few of the most abundant soils are Tawas Muck, Roscommon Mucky Sand, and Kalkaska Sand. Habitat types within the compartment, in order of abundance, are Unclassified Lowland, PArVAa, ATFD, PVE, PArV, AFPo, and AFOA. It lies within the Garden/Thompson Plains Management Area.

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

State land within this compartment was acquired between 1928 and 1988. Most of the land was acquired around 1940. A 10 acre parcel was transferred to MDOT, and this parcel now has a rest area. The compartment boundary borders private, state, and federal land. The southern boundary mostly borders state land, USFS land borders the northern boundary, Weyerhaeuser land is adjacent to the eastern boundary, and the western boundary borders mixed private ownerships. A few camps are located on the private parcels within the boundary. The compartment is used mostly by hunters, ORV users, and snowmobile riders.

Unique Natural Features:

Warner Lake is located in the eastern portion of the compartment. It is surrounded by treed bogs and dense stands of cedar which make it highly inaccessible. It provides good habitat for a variety of wildlife species. A large, highly stocked, dense hemlock stand is located in the west.

Archeological, Historical, and Cultural Features:

Possible archeological site was reported.

Special Management Designations or Considerations:

Portions of the compartment are classified as deer wintering complex, and an ERA for wooded dune and swale complex. The majority of the compartment also lies within the Garden Grade GEMS.

Watershed and Fisheries Considerations:

This compartment contains Hartman Creek, Warner Lake, and the Little Fishdam River. Hartman Creek and the Little Fishdam River are non-designated waterbodies less than 50' width. 100' plus 5' per 1% increase in slope; buffers are recommended for Warner Lake, Hartman Creek and the Little Fishdam River to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment lies primarily on the south side of US-2. The Little Fish Dam River courses through from northwest to southeast. The northwest corner of the compartment is part of a larger wooded dune and swale ecological reference area. There is a considerable amount of winter deer activity in the area, and specifically in the northwestern part of the compartment. The compartment contains a mix of aspen of varying ages, lowland conifer, and mixed stands. Many stands have been managed in the past, creating some variation in age classes. Wildlife objectives include maintaining young early successional forest habitat in rotation with maturing stands, maintaining closed-canopy conifer cover for deer wintering habitat, maintaining wildlife corridors, providing super-canopy white pines for raptors, and providing some young conifer habitat. Hemlock and cedar will be left where present. Species use of this compartment include deer, black bear, coyote, fox, ruffed grouse, American woodcock, and woodpeckers.

Mineral Resource and Development Concerns and/or Restrictions

Several active sand/gravel pits are on the Garden Peninsula but none within three miles of the compartment. Sand & gravel potential within the compartment appears limited. There is some limestone/dolostone potential, but bedrock might be too deep here to have significant economic value. There is no known metallic mineral potential in this area, but there was some iron ore testing to the northeast by Cleveland Cliffs in the 1950s. There is no known potential for economic hydrocarbon production in the UP.

Vehicle Access:

Except for the areas containing low ground, the compartment has a decent system of forest roads that can be driven during the snow free months. US-2 and the Cooks/Garden grade are the main access. Two hunter walking trails are located within the compartment in the GEMS and are gated.

Survey Needs:

Survey needed.

Recreational Facilities and Opportunities:

An MDOT rest area is located north of US-2, and one snowmobile trail exists. The Cooks/Garden grade snowmobile trail travels through the middle of the compartment and receives moderate use by ORV riders also. A woods road traveling north from the MDOT rest area provides a nice walking trail for visitors. Opportunities for hunting, fishing, trapping, and other forms of recreational activity exist within or adjacent to this compartment. The majority of the compartment lies within the Garden Grade GEMS which contains a network of hunter walking trails.

Fire Protection:

Response time to fires within this compartment from the Thompson field office will be moderate to fast. The fire office is located 8 miles to the east, and travel would be along US-2. The compartment receives moderate use throughout fire season and human caused fires are a concern. Both spring and summer fires are likely to occur here. Higher relative humidity and mixed fuel types make this area less conducive to a large wildfire. Water sources are abundant and include Lake Michigan, Little Fishdam River, and a small lake adjacent to the MDOT rest area.

Additional Compartment Information:

A large scale flooding disturbance surrounding Warner Lake has occurred since previous inventory. Areas affected cover multiple sections both north and south of US2.

The following reports from the Inventory are attached:

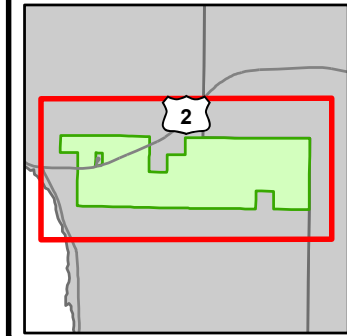
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

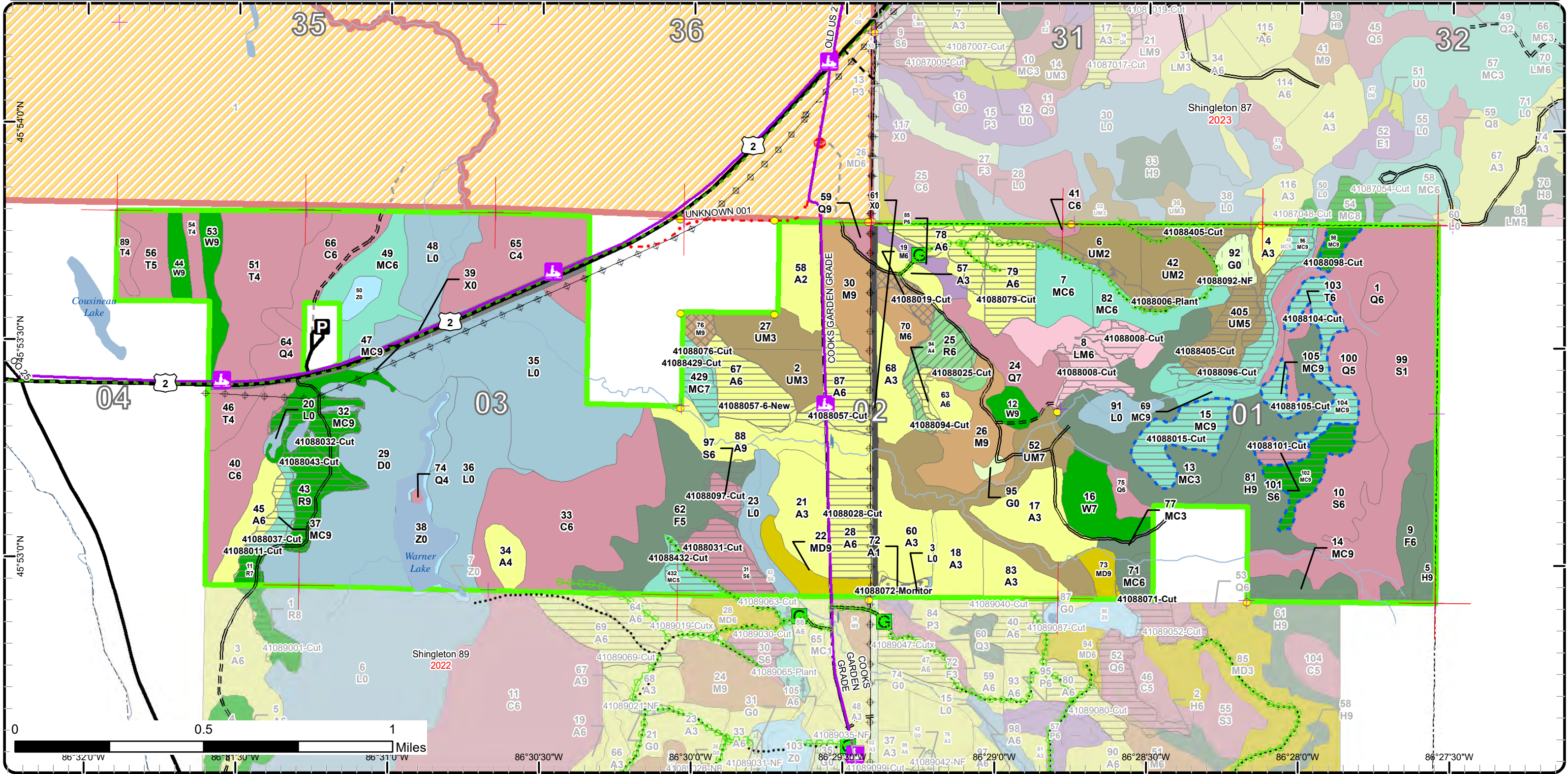
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 88
 T40N, R18W, Sec. 1-4
 County: Delta
 Unit: Shingleton
 Mgmt Area: Escanaba Lake and Till Plain
 YOE: 2021
 Acres: 1940.5 GIS Calculated
 Examiner: Adam Petrelius
 Map Revised: 9/20/2023
 Map Phase: Post Review

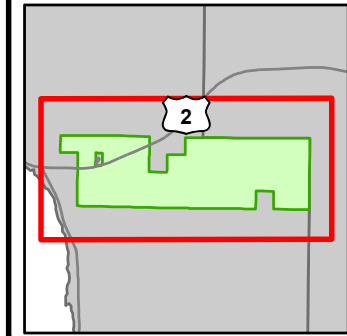


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State - County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - Private - Dirt / Gravel Road
- ... DNR - Management Access
- 🚗 Snowmobile Trails
- Designated Hiking Trails
- - - Designated Bicycle Trails
- 👤 Designated Hunter Walking Trails
- Designated Snowmobile Trails
- 🚪 Gate
- 🚗 Culvert
- 🅑 Parking Lot
- 🛑 Sign
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- ⚡ Powerline
- 📏 Compartment Boundary
- 📏 Treatments with Site Conditions
- 📏 Selection (Group, Single Tree)
- 📏 Planting (Tree Species)
- 📏 Clearcut (w/Reserves)
- 📏 Thinning (Crown, Low, Systematic)
- 📏 Regeneration Survey
- 📏 Opening Maintenance
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 123 - Other High Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub

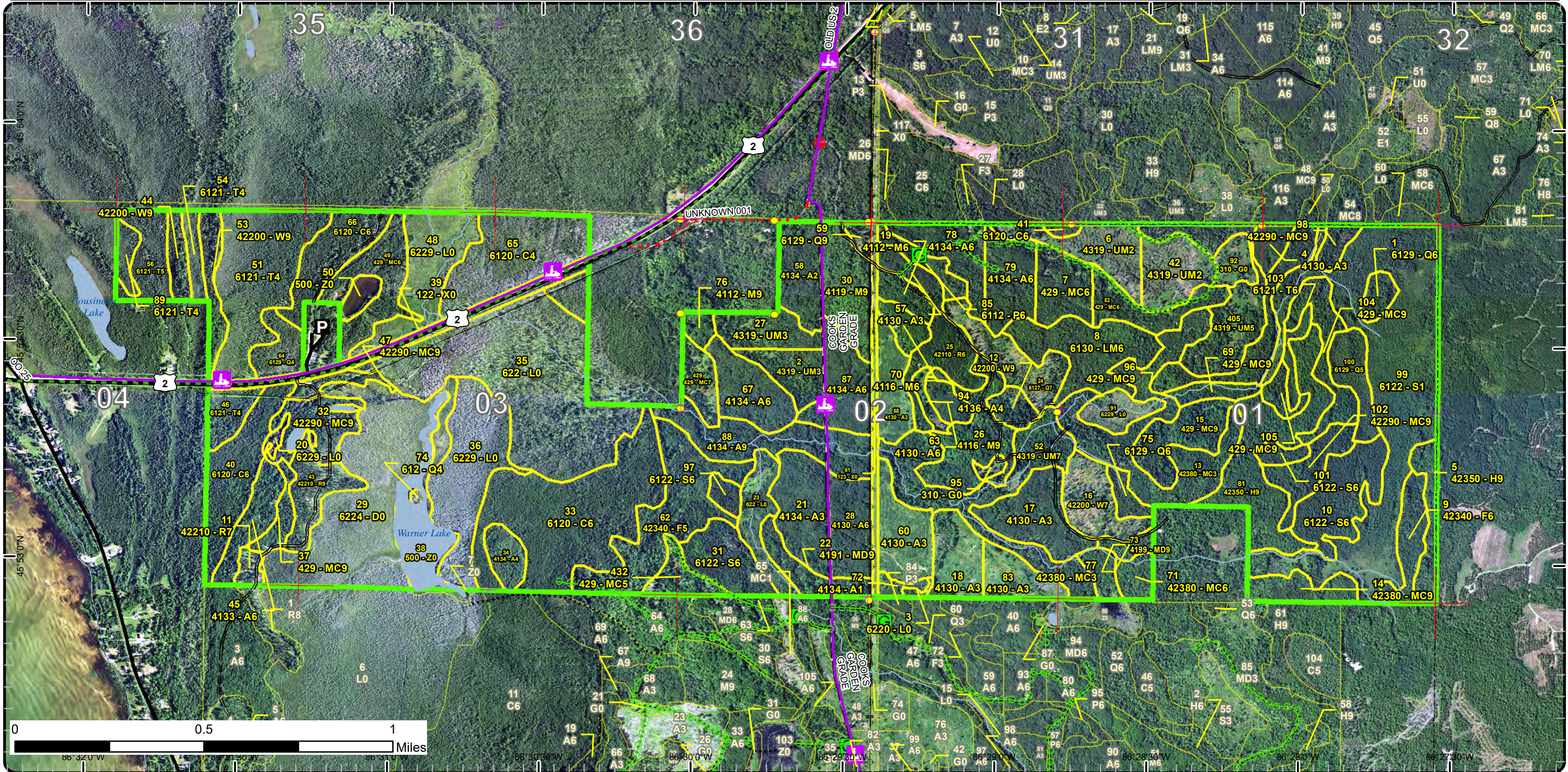


Stand Boundary Map

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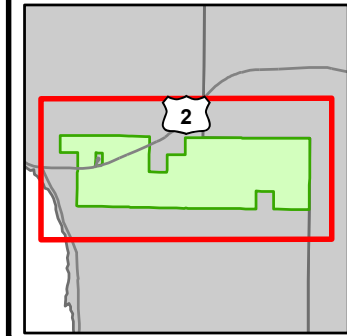


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- Lakes and Rivers
- ⚡ Powerline
- 🟩 Compartment Boundary
- 🟨 Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
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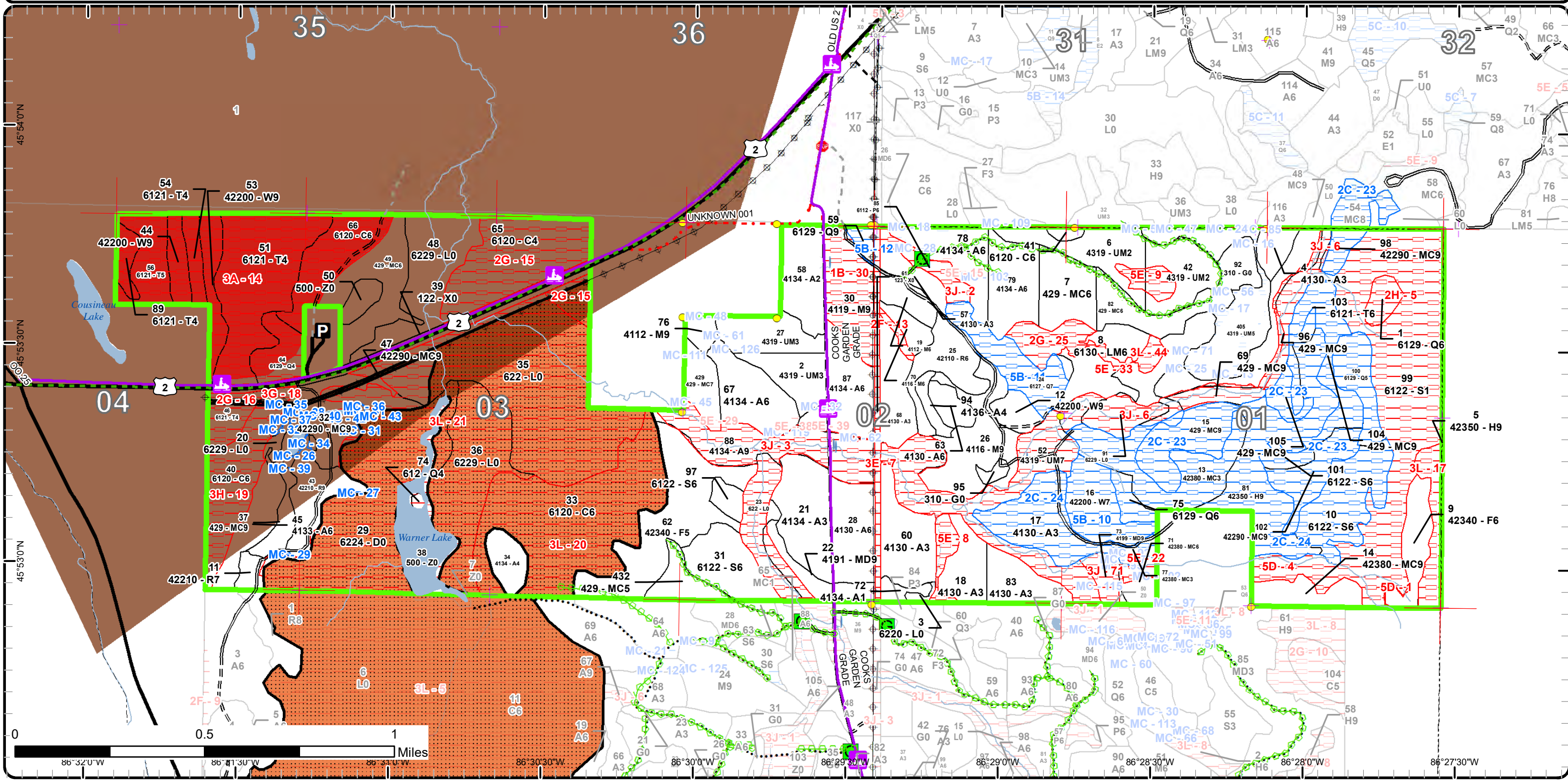
Special Conservation Areas

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 Unit: Shingleton
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- ⚡ Powerline
- 🟩 Compartment Boundary
- 🟦 Available w/ Constraints
- 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
- 5B: Maintain for regeneration purposes
- Unavailable
- 1B: Non-DNR agency concerns (e.g. USFS)
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

- 3A: Conservation Values incompatible with harvest at this time
- 3E: Easement / lease, non-military (e.g. Consumers Power red pine, etc)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- 🟩 Stand Boundaries
- 🟦 SCA
- 🟥 Ecological Reference Areas
- 🟤 Deer Winter Range
- 🟧 Other Habitat Area





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	55	68	38	43	119	0	0	0	0	0	0	0	0	0	0	0	0	323
Cedar	0	0	0	0	0	0	0	0	0	129	30	0	22	0	0	0	0	0	181
Hemlock	0	0	0	0	0	0	0	0	0	0	0	56	0	0	0	0	0	0	56
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Aspen/Balsam Poplar	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	0	13	6	0	30	0	11	0	0	0	0	0	0	60
Lowland Mixed Forest	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	33
Lowland Shrub	211	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	211
Lowland Spruce/Fir	0	0	0	0	0	121	0	28	0	24	4	0	0	0	0	0	0	0	177
Mixed Upland Deciduous	0	0	0	0	0	0	13	6	0	0	0	0	0	0	0	0	0	0	19
Natural Mixed Pines	0	0	0	0	0	0	6	0	0	0	17	15	5	0	0	0	0	0	43
Northern Hardwood	0	0	0	0	7	0	0	0	0	12	0	23	0	0	0	0	0	29	71
Red Pine	0	0	0	0	17	0	0	0	0	0	21	0	0	0	0	0	0	0	38
Tamarack	0	0	0	0	0	0	93	0	0	0	0	0	0	0	0	0	0	0	93
Treed Bog	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86
Upland Conifers	0	0	0	54	34	32	20	0	7	45	5	21	12	0	0	0	0	0	229
Upland Mixed Forest	0	0	41	29	0	0	31	0	0	47	0	0	0	0	0	0	0	0	147
Upland Spruce/Fir	0	0	0	14	45	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Urban	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Water	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
White Pine	0	0	0	0	0	0	0	0	0	0	45	0	0	0	0	0	0	0	45
Total	361	55	109	135	154	272	150	87	19	257	152	59	106	0	0	0	0	29	1942



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 88

Total Compartment Acres: 1,940

Commercial Harvest - 266
 Harvests with Site Condition - 67
 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
Aspen	98	0	0	0	0	0	0	0	0	98
Lowland Mixed Forest	16	0	0	0	0	0	0	0	0	16
Lowland Spruce/Fir	31	0	0	0	0	0	0	0	0	31
Natural Mixed Pines	34	0	0	0	0	0	0	0	0	34
Northern Hardwood	0	9	0	0	0	0	0	0	0	9
Red Pine	19	0	0	0	0	15	0	0	0	35
Upland Conifers	90	0	0	0	0	0	0	0	0	90
Upland Mixed Forest	20	0	0	0	0	0	0	0	0	20
Total	309	9	0	0	0	15	0	0	0	334

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	334	0	8	0	0	3	0	8		352
Next Step	0	43	43	0	0	172	360	0	30	648
Total	334	43	51	0	0	172	363	0	37	1000



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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Approved Treatments:

48	41087048-Cut	1.3	42290 - Natural Mixed Pine	Sawtimber Well	95	111-140	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak. Retention will be located in river buffer which will be 100 feet.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

54	41087054-Cut	9.0	42290 - Natural Mixed Pine	Sawtimber Medium	100	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Cut all species except hemlock and oak. Retention will be located in the 100 foot river buffer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species</p> <p><u>Regen:</u></p> <p><u>Other</u> Best crossing would be crane mat bridge over a creek that measures about 2 feet across.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

6	41088006-Plant	8.1	4319 - Mixed Upland Forest	Sapling Medium	11	1-50	Planting	Interplant	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species</p> <p><u>Regen:</u></p> <p><u>Other</u> Area has pockets lacking regeneration from previous harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/22/2018</p>											



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
8	41088008-Cut	16.1	6130 - Fir, Aspen, Maple	Poletimber Well	60	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2 inches except hemlock and oak. Wet stand and will likely need winter harvest. Retention will be located in river buffers which will be 100 feet and mixed pine along edges.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
11	41088011-Cut	3.8	42210 - Natural Red Pine	Sawtimber Poor	90	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees live and dead down to 2 inches. Edge retention only.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr); Pesticide, Skidder - Release; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release</p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
15	41088015-Cut	20.2	429 - Mixed Upland Conifers	Sawtimber Well	88	111- 140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak. Retention is located in river buffer which will be 100 feet. Build road across stand to eastern edge.</p> <p><u>Specs:</u> This road will remain in place for future management of stands to east and serve as a new hunter walking trail for GEMS.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species</p> <p><u>Regen:</u></p> <p><u>Other</u> New road will need to be created through this treatment to facilitate harvest operations. WLD would like this road left slash free. Road will be</p> <p><u>Comment:</u> gated in future. Slash / stumps should be placed at start of road to aid in blocking road.</p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
19	41088019-Cut	5.3	4112 - Maple, Beech, Cherry Association	Poletimber Well	85	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Selection harvest. Low basal area is acceptable due to topography.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



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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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25	41088025-Cut	15.4	42110 - Planted Red Pine	Poletimber Well	34	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Row thin red pine and cut all other species. Only retention will be any inoperable areas on hillside.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Stand boundary decreased due to competition problems in early stages of plantation.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

28	41088028-Cut	19.5	4130 - Aspen	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Buffer creek 100 feet. This will be the retention area. Minimize impacts to snowmobile trail if possible. Less than 3% retention is acceptable to promote best possible aspen regeneration. Leave at minimum 1, 8 inch, 8 feet long log per acre on site for drumming logs. Do not cut serviceberry and dogwood.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen regeneration is expected, however mixed deciduous and coniferous species are acceptable.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2026

31	41088031-Cut	19.6	6122 - Black Spruce	Poletimber Well	86	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Cut all trees down to 2 inches except hemlock and oak. Retention will be located in east in creek buffer which will be 100 feet.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable All species. Evaluate regeneration success next inventory cycle. Stand is fairly dry and could possibly be trenched and planted if natural regeneration fails.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

32	41088032-Cut	14.5	42290 - Natural Mixed Pine	Sawtimber Well	90	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Cut all trees live and dead. Edge retention only for plantation management.

Specs:

Next Step Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Release; Monitoring, Artificial

Treatments: Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release

Acceptable any species. Low areas have black spruce and jack pine. Uplands should be trenched and planted with red pine.

Regen:

Other

Comment: Stand contains numerous areas with standing water. Origination may have been from highway / powerline construction in past. These depressions are deep and should be excluded from sale with red line to prevent equipment operation inside area. Most have been excluded with treatment boundary.

Site Condition

Proposed Start Date: 10/1 /2020



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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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37	41088037-Cut	9.2	429 - Mixed Upland Conifers	Sawtimber Well	47	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Cut all trees live and dead. Edge retention only for plantation management.

Specs:

Next Step Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial
Treatments: Regen(3yr); Pesticide, Skidder - Release; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release

Acceptable red pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

43	41088043-Cut	15.6	42210 - Natural Red Pine	Sawtimber Well	96	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Cut all trees live and dead. Edge retention only for plantation management.

Specs:

Next Step Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial
Treatments: Regen(3yr); Pesticide, Skidder - Release; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release

Acceptable red pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

67	41088057-6-New	21.6	4134 - Aspen, Spruce/Fir	Poletimber Well	48	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Buffer creek 100 feet. This will be
Specs: the retention area. Minimize impacts to snowmobile trail if possible. Less than 3% retention is acceptable to promote best possible aspen regeneration. Leave at minimum 1, 8 inch, 8 feet long log per acre on site for drumming logs.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen regeneration is expected, however mixed coniferous and deciduous is acceptable.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

87	41088057-Cut	20.4	4134 - Aspen, Spruce/Fir	Poletimber Well	48	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Buffer creek 100 feet. This will be
Specs: the retention area. Minimize impacts to snowmobile trail if possible. Less than 3% retention is acceptable to promote best possible aspen regeneration. Leave at minimum 1, 8 inch, 8 feet long log per acre on site for drumming logs.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen regeneration is expected, however mixed coniferous and deciduous is acceptable.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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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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78	41088057-Cutx	14.0	4134 - Aspen, Spruce/Fir	Poletimber Well	33	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Buffer creek 100 feet. This will be the retention area. Minimize impacts to snowmobile trail if possible. Less than 3% retention is acceptable to promote best possible aspen regeneration. Leave at minimum 1, 8 inch, 8 feet long log on site for drumming logs.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen regeneration is expected, however mixed deciduous and coniferous trees are acceptable.

Other Comment: Do not cut serviceberry and dogwood.

Site Condition

Proposed Start Date: 10/1 /2021

71	41088071-Cut	4.1	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	70	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Cut all trees except hemlock and oak. Dense areas of hemlock which are inoperable should be excluded with sale boundary. These areas will be the retention patches along with river buffer to the west. Harvest with adjacent stand to the south.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: any species

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

Site Condition

Proposed Start Date: 10/1 /2021

72	41088072-Monitor	2.9	4134 - Aspen, Spruce/Fir	Sapling Poor	6	1-50	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	No
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Prescription check regeneration

Specs:

Next Step

Treatments:

Acceptable Regen: Aspen regeneration is expected, however mixed deciduous and coniferous trees are acceptable.

Other Comment:

Other Comment: Percent to Treat = 100%

Site Condition

Site Condition

Proposed Start Date: 10/1 /2028



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
76 41088076-Cut	4.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection harvest. Low basal area 50 to 80 is acceptable due to stands location.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
79 41088079-Cut	19.6	4134 - Aspen, Spruce/Fir	Poetimber Well	33	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Minimize impacts to snowmobile trail if possible. Less than 3% retention is acceptable to promote best possible aspen regeneration. Leave at minimum 1, 8 inch, 8 feet long log on site for drumming logs per acre. Do not cut serviceberry and dogwood.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen regeneration is expected, however mixed deciduous and coniferous containing open pockets is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2026</p>										
92 41088092-NF	7.6	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> W41-1639:</p> <p><u>Specs:</u> Prescribed fire, farming (dozing, disking, raking, seeding (native or naturalized species only), fertilizing and liming. Brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Clearing/maintaining of hunter walking trails. Herbicide application approved.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed coniferous, deciduous, and/or grass open.</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2018</p>										



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
94	41088094-Cut	2.9	4136 - Aspen, Mixed Conifer	Poletimber Poor	34	1-50	Harvest	Clearcut	310 - Herbaceous Openland		No
<p><u>Prescription</u> Cut all trees down to 2 inches.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Grass is goal, however any species is acceptable</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
96	41088096-Cut	18.3	429 - Mixed Upland Conifers	Sawtimber Well	105	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak. Retention will be located in river buffer which will be 100 feet.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
97	41088097-Cut	7.1	6122 - Black Spruce	Poletimber Well	86	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2 inches except hemlock and oak. Retention will be located in east in creek buffer which will be 100 feet.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> All species. Evaluate regeneration success next inventory cycle. Stand is fairly dry and could possibly be trenched and planted if natural regeneration fails.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
98	41088098-Cut	4.9	42290 - Natural Mixed Pine	Sawtimber Well	110	111- 140	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Cut all species except hemlock and oak. Retention will be located in the 100 foot river buffer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



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
101	41088101-Cut	4.1	6122 - Black Spruce	Poetimber Well	90	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all species except hemlock and oak. Small stand - less than 3% retention is acceptable.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
102	41088102-Cut	14.7	42290 - Natural Mixed Pine	Sawtimber Well	100	111- 140	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Cut all species except hemlock and oak. Retention will be located on edge of adjacent hemlock stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species</p> <p><u>Regen:</u></p> <p><u>Other</u> New road will need to be created through this treatment to facilitate harvest operations. WLD would like this road left slash free. Road will be</p> <p><u>Comment:</u> gated in future. Slash / stumps should be placed at start of road to aid in blocking road.</p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
104	41088104-Cut	18.0	429 - Mixed Upland Conifers	Sawtimber Well	85	111- 140	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Cut all species except hemlock and oak. Retention will be along edge of adjacent hemlock stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species</p> <p><u>Regen:</u></p> <p><u>Other</u> New road will need to be created through this treatment to facilitate harvest operations. WLD would like this road left slash free. Road will be</p> <p><u>Comment:</u> gated in future. Slash / stumps should be placed at start of road to aid in blocking road.</p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
105	41088105-Cut	5.2	429 - Mixed Upland Conifers	Sawtimber Well	95	111- 140	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Cut all species except hemlock and oak. Retention will be located along edge of adjacent hemlock stand. Buffer creek 100 feet.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species</p> <p><u>Regen:</u></p> <p><u>Other</u> New road will need to be created through this treatment to facilitate harvest operations. WLD would like this road left slash free. Road will be</p> <p><u>Comment:</u> gated in future. Slash / stumps should be placed at start of road to aid in blocking road.</p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
405 41088405-Cut	20.1	4319 - Mixed Upland Forest	Poletimber Medium	55	51-80	Harvest	Clearcut	310 - Herbaceous Openland		No
<p><u>Prescription</u> Cut all trees down to 2 inches except hemlock and oak. Only retention will be located in the south and east with 100 foot creek buffer.</p> <p><u>Specs:</u> Protect oak planted by WLD with sale spec</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); NonForestMgt, Herbaceous/Crop/Grass Planting</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed deciduous, coniferous, or grass. Per WLD recommendations.</p> <p><u>Regen:</u></p> <p><u>Other</u> New road should be created to the southern portion of this treatment with timbersale and left open as walking trail behind gate.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
429 41088429-Cut	8.6	429 - Mixed Upland Conifers	Sawtimber Poor	55	1-50	Harvest	Clearcut	310 - Herbaceous Openland		No
<p><u>Prescription</u> Cut all trees down to 2 inches except hemlock and oak. Buffer creek 100 feet.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Non-forested is goal but any species will be acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
432 41088432-Cut	6.7	429 - Mixed Upland Conifers	Poletimber Medium	50	1-50	Harvest	Clearcut	310 - Herbaceous Openland		No
<p><u>Prescription</u> Cut all trees down to 2 inches except hemlock and oak.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Goal is non-forested management, however all regeneration is acceptable pending WLD treatments.</p> <p><u>Regen:</u></p> <p><u>Other</u> Existing overgrown road should be widened and extended from this treatment approximately 1/3 mile to the north during timbersale.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
63 41089063-Cut	1.5	6122 - Black Spruce	Poletimber Well	86	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2 inches except hemlock and oak. Retention will be located in east in creek buffer which will be 100 feet.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> All species. Evaluate regeneration success next inventory cycle. Stand is fairly dry and could possibly be trenched and planted if natural regeneration fails.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment Acreage Proposed: **364**

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 88
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
322	255	28	40

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions															
					2C	5B	MC	1B	2F	2G	2H	3A	3E	3G	3H	3J	3L	5D	5E	
322	255	28	40	Aspen	25		2	0									32			7
181	2	0	179	Cedar						47		22		2	28				80	
56	0	44	12	Hemlock	44														12	
10	10	0	0	Herbaceous Openland																
8	0	0	8	Lowland Aspen/Balsam Poplar													8			
60	1	42	18	Lowland Conifers	19	23					6	11					0	1		
33	17	0	15	Lowland Mixed Forest						11							0	3		2
211	37	0	174	Lowland Shrub			0										24	150		
177	24	32	121	Lowland Spruce/Fir	32												1			120
19	10	0	10	Mixed Upland Deciduous													10			
42	22	20	0	Natural Mixed Pines	20		0										0			
71	45	0	25	Northern Hardwood			0	23	2								0			
37	36	1	0	Red Pine			1										0			
93	0	5	88	Tamarack	5					10		78								
85	0	0	85	Treed Bog															85	
230	131	79	19	Upland Conifers	79		0										15		1	3
147	89	7	52	Upland Mixed Forest			7										47			6
59	58	0	0	Upland Spruce/Fir													0			
27	18	0	9	Urban									9							
27	5	0	21	Water															21	
45	7	20	19	White Pine		20						19					0			
1,939	766	277	897	Total Forested Acres	224	43	10	23	2	68	6	130	9	2	28	137	353	121	18	
	40%	14%	46%	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	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5D: Unproductive Forest Land	120	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	73	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3E: Easement / lease, non- military (e.g.- Consumers Power red pine, etc)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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8	Unavailable	5E: Long-Term Retention	6	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: combination of wet drainage and steep hill that was left as retention during previous harvest							
9	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from Little Fishdam Mix Sale.							
10	Available	5B: Maintain for regeneration purposes	20	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5B: Maintain for regeneration purposes	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 88
Year of Entry: 2021

14	Unavailable	3A: Conservation Values incompatible with harvest at this time	130	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand has mostly died due to water drainage issues. Part of a large area that has flooded. ERA - wooded dune swale complex							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is part of a large area that flooded and is mostly dead							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: stand is flooding							
17	Unavailable	3L: Other wildlife concerns	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3G: Other Influence zones - See comments	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: travel influence zone. cedar adjacent to rest area. buffer for stand to south							
19	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 88
Year of Entry: 2021

20	Unavailable	3L: Other wildlife concerns	80	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retain an intact canopy in upland coniferous (non-pine) stands near the lakeshore and lowland coniferous stands throughout the SCA in order to provide a functional travel corridor for migrating birds. These stands provide food in the form of insects and seeds, cover, concealment, and resting areas for migrating, neo-tropical birds.							
21	Unavailable	3L: Other wildlife concerns	258	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retain an intact canopy in upland coniferous (non-pine) stands near the lakeshore and lowland coniferous stands throughout the SCA in order to provide a functional travel corridor for migrating birds. These stands provide food in the form of insects and seeds, cover, concealment, and resting areas for migrating, neo-tropical birds.							
22	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 7. Buffers Little Fishdam River.							
23	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	76	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	157	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Compartment: 88
Year of Entry: 2021

25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	Minor Change in Acreage	0				
Comments:							
27	Available	Minor Change in Acreage	0				
Comments:							
29	Available	Minor Change in Acreage	0				
Comments:							
30	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Available	Minor Change in Acreage	0				
Comments:							
32	Available	Minor Change in Acreage	0				
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 88
Year of Entry: 2021

33	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	Minor Change in Acreage	0				
Comments:							
35	Available	Minor Change in Acreage	0				
Comments:							
36	Available	Minor Change in Acreage	0				
Comments:							
37	Available	Minor Change in Acreage	0				
Comments:							
38	Available	Minor Change in Acreage	0				
Comments:							
39	Available	Minor Change in Acreage	0				
Comments:							
40	Available	Minor Change in Acreage	0				
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 88
Year of Entry: 2021

41	Available	Minor Change in Acreage	0				
Comments:							
42	Available	Minor Change in Acreage	0				
Comments:							
43	Available	Minor Change in Acreage	0				
Comments:							
44	Unavailable	3L: Other wildlife concerns	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: hemlock							
71	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							



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
	Habitat Area	Other Habitat Area	SCA	299
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	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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1 6129 - Mixed Coniferous Lowland Forest Poletimber Well 5.7 95 51-80 N/A

2 4319 - Mixed Upland Forest Sapling Well 13.9 29 1-50 N/A GEMS treatment period 2037

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	10	Log/Pole	12		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	50	Sapling/Pole	4	29	Balsam Fir	High	5 - 10 feet	Sapling
White Pine	10	Log/Pole	12					
Balsam Fir	30	Sapling/Pole	4					

3 6220 - Alder/willow Nonstocked 1.1 0 Unspecified No Stand harvested with GEMS 2017 sale. Next harvest planned in 2057.

4 4130 - Aspen Sapling Well 6.4 25 1-50 N/A GEMS plan treatment period of 2052.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Sapling/Pole	4		Balsam Fir	Medium	5 - 10 feet	Sapling
Quaking Aspen	90	Sapling/Pole	4	25				

5 42350 - Upland Hemlock Sawtimber Well 12.0 111 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log/XLog	16		Hemlock	Low	5 - 10 feet	Sapling
Paper Birch	10	Log/Pole	12		Balsam Fir	Medium	5 - 10 feet	Sapling
Hemlock	80	Log/XLog/Pole	14	111				

6 4319 - Mixed Upland Forest Sapling Medium 21.4 11 1-50 N/A 10/31/11 bb Stand is now on proposal, 41-12-11 Little Fishdam Mix, Unit 1, 43 acres. Residual BA = Red Pine 3', white pine 3', cedar 11' and hemlock 1'. [12/27/20103 TI] Sale is closed. TCR date 11/1/2013

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	20	Sapling	1	
Northern White Cedar	10	Pole/Log	9	
Red Maple	20	Sapling	1	11
White Pine	10	Log/Pole	10	
Balsam Fir	10	Sapling	1	
Black Cherry	10	Sapling	1	
Bigtooth Aspen	20	Sapling	1	11

7 429 - Mixed Upland Conifers Poletimber Well 17.5 33 51-80 N/A GEMS treatment plan period of 2032

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	20	Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
White Pine	10	Pole	8		White Spruce	Medium	5 - 10 feet	Sapling
White Spruce	30	Pole	8	33				
Quaking Aspen	10	Pole	8	33				
Red Maple	30	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
8	6130 - Fir, Aspen, Maple	Poletimber Well	32.6	60	81-110	N/A	wet stand																																																						
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9	42340 - Upland Spruce/Fir	Poletimber Well	14.0	28	1-50	N/A																																																							
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10	6122 - Black Spruce	Poletimber Well	27.8	63	51-80	N/A																																																							
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11	42210 - Natural Red Pine	Sawtimber Poor	3.9	90	1-50	N/A																																																							
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12	42200 - Natural White Pine	Sawtimber Well	6.5	99	81-110	N/A																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13 42380 - Non Pine Upland Conifer, Mixed Deciduous Sapling Well 49.3 27 1-50 N/A OPIC - FMD: Mixture of red maple stump sprouts and fir.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Sapling/Pole	4		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Hemlock	10	Sapling/Pole	4		Hemlock	Low	5 - 10 feet	Sapling
White Spruce	20	Sapling/Pole	4		Balsam Fir	Medium	5 - 10 feet	Sapling
Red Maple	20	Sapling/Pole	4					
Balsam Fir	30	Sapling/Pole	4	27				
White Pine	10	Sapling/Pole	4					

14 42380 - Non Pine Upland Conifer, Mixed Deciduous Sawtimber Well 12.4 118 111-140 N/A Management of stand should be in conjunction with compartment to the south.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Log/Pole	12		Black Spruce	Medium	5 - 10 feet	Sapling
Hemlock	40	Log/Pole	14	118	Hemlock	Low	5 - 10 feet	Sapling
Balsam Fir	20	Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce	10	Pole	8					

15 429 - Mixed Upland Conifers Sawtimber Well 20.2 88 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Log/Pole	16		Balsam Fir	High	5 - 10 feet	Sapling
Northern White Cedar	5	Log/Pole	12					
Hemlock	5	Log/Pole	12					
White Spruce	15	Log/Pole	12					
Quaking Aspen	5	Log/Pole	12					
Paper Birch	5	Log/Pole	12					
Red Maple	25	Log/Pole	10	88				
Black Spruce	20	Pole	8					

16 42200 - Natural White Pine Sawtimber Poor 19.8 98 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	100	Log/XLog	16	98	Tamarack	Medium	5 - 10 feet	Sapling
					Black Spruce	Medium	5 - 10 feet	Sapling
					White Pine	Medium	5 - 10 feet	Sapling

10/31/11 bb Stand is now on proposal, 41-12-11 Little Fishdam Mix, Unit 7, 18 acres. Residual BA = white pine 23', cedar 4' and hemlock 2'.

[12/27/20103 TI] Sale is closed. TCR date 11/1/2013

White pine is dying due to water issues.

17 4130 - Aspen Sapling Well 25.4 26 1-50 N/A GEMS treatment period of 2032

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling/Pole	4		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	10	Sapling/Pole	4					
Quaking Aspen	80	Sapling/Pole	4	26				
White Pine	5	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
18	4130 - Aspen	Sapling Well	18.3	10	Immature	N/A	GEMS treatment period of 2042																																																		
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19	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.5	85	81-110	N/A	10/31/11 bb Stand is now on proposal, 41-12-11 Little Fishdam Mix, Unit 2, 6 acres. Residual BA = hardwood 71' and softwood 12'[12/27/20103 TI] Sale is closed. TCR date 11/1/2013																																																		
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20	6229 - Mixed lowland shrub	Nonstocked	3.3	0	Unspecified	No	.2 ages in canopy, jack pine is younger and found in the low areas, with older red pine/white pine on the ridges																																																		
21	4134 - Aspen, Spruce/Fir	Sapling Well	25.3	5	1-50	N/A	Cut with Garden Grade GEMS Sale 2017																																																		
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22	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	12.7	65	51-80	N/A																																																			
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23	622 - Lowland Shrub	Nonstocked	15.5		Unspecified	No																																																			
24	6127 - Lowland Pine	Sawtimber Poor	20.6	99	1-50	N/A	10/31/11 bb Stand is now on proposal, 41-12-11 Little Fishdam Mix, Unit 3, 26 acres. Residual BA = white pine 30', hemlock 10'. Hemlock portion was separated out into stand 12.																																																		
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26	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	28.6	75	81-110	N/A	Mixed age classes and some aspen clones present. Variety of species and ages likely resulted from nearby activities in grass stand.																																									
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27	4319 - Mixed Upland Forest	Sapling Well	15.3	29	1-50	N/A	GEMS treatment period 2032																																									
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28	4130 - Aspen	Poletimber Well	19.5	48	81-110	N/A																																										
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29	6224 - Treed Bog	Nonstocked	85.5		Unspecified	No																																										
30	4119 - Mixed Northern Hardwoods	Sawtimber Well	23.2	101	111-140	N/A	Stand contains red maple site index plots established by the North Central Research Station, USFS. They were contacted and expressed interest in keeping plots intact and not harvested. They also stated that a minimum buffer of one tree length should be placed if harvesting adjacent to plots occurred.																																									
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32	42290 - Natural Mixed Pine	Sawtimber Well	16.8	90	111-140	N/A	.2 ages in canopy, jack pine is younger and found in the low areas, with older red pine/white pine on the ridges																																														
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33	6120 - Lowland Cedar	Poletimber Well	80.0	86	141-170	N/A	western edge of stand is dying due to water issues																																														
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35	622 - Lowland Shrub	Nonstocked	106.1	0	Unspecified	No	Stand has flooded and is non forest																																														
36	6229 - Mixed lowland shrub	Nonstocked	44.0	0	Unspecified	No	flooded stand, now non forest																																														
37	429 - Mixed Upland Conifers	Sawtimber Well	6.9	47	81-110	N/A	Stand is 2 aged with the oldest age being red pine/ wp from previous harvest. Both age classes are in canopy.																																														
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38	500 - Water	Nonstocked	21.4		Unspecified	No	Warner Lake																																														



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39	122 - Road/Parking Lot	Nonstocked	17.7		Unspecified	No	OPIC - FMD: SCA- Deer Wintering Complex. US-2																																								
40	6120 - Lowland Cedar	Poletimber Well	29.7	94	111-140	N/A																																									
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42	4319 - Mixed Upland Forest	Sapling Medium	19.6	11	1-50	N/A	10/31/11 bb Stand is now on proposal, 41-12-11 Little Fishdam Mix, Unit 1, 43 acres. Residual BA = Red Pine 3', white pine 3', cedar 11' and hemlock 1'. [12/27/20103 T1] Sale is closed. TCR date 11/1/2013																																								
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43	42210 - Natural Red Pine	Sawtimber Well	17.1	96	81-110	N/A	2008 stand comments: Stand is a mature natural red pine stand. Trees are stunted and have smaller than normal diameters. Mark red pine and white pine to 50 sq.ft. basal area to thicken the crowns and prepare for a regeneration harvest next year of entry. Cut all other species. Nice natural pine stand. Make sure this stand stays keeps the red pine management objective in future YOE. Retention: A mixture of species can be saved for retention along the eastern edge of this stand bordering the treed bog. Do not cut hemlock and oak. 10/31/11 bb Stand is now on proposal 40-11 Rest Area South, Unit 1, Residual BA's red pine 55' and white pine 9'. Stand was harvested.																																								
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44	42200 - Natural White Pine	Sawtimber Well	7.4	94	81-110	N/A	Highest portions of the ridge have white pine and red pine. Edges and low areas are mixed swamp conifers.																																								
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45	4133 - Aspen, Mixed Pine	Poletimber Well	14.6	43	51-80	N/A																																					
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47	42290 - Natural Mixed Pine	Sawtimber Well	5.7	50	81-110	N/A	Mixed stand with red pine/white pine/ and jack pine. Guessing red and white pine were left last time as they appear older. Numerous wet areas exist likely resulting from highway and powerline construction in past.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
52	4319 - Mixed Upland Forest	Sawtimber Poor	46.6	80	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		10	Log/Pole	10		Balsam Fir	
Black Spruce		15	Pole	8		Medium	
White Spruce		15	Log/Pole	10		10 - 20 feet	
Red Maple		20	Log/Pole	10	80	Sapling	
Balsam Fir		10	Pole	6			
White Pine		10	Log/Pole	12			
Quaking Aspen		20	Log/Pole	10	80		
53	42200 - Natural White Pine	Sawtimber Well	11.2	94	81-110	N/A	Highest portions of the ridge have white pine and red pine. Edges and low areas are mixed swamp conifers.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		60	Log/Pole	16	94	Black Spruce	
Red Pine		10	Log/Pole	16		Medium	
Black Spruce		30	Pole	8		5 - 10 feet	
						Sapling	
54	6121 - Tamarack	Poletimber Poor	6.1	55	1-50	N/A	Stand is flooded and dying
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		20	Pole/Sapling	5		Tamarack	
Tamarack		60	Pole/Sapling	5	55	Black Spruce	
Black Spruce		20	Pole/Sapling	5		Medium	
						5 - 10 feet	
						Sapling	
56	6121 - Tamarack	Poletimber Medium	15.6	55	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		30	Pole/Sapling	7	55	Tamarack	
Black Spruce		10	Pole/Sapling	6		Medium	
Tamarack		60	Pole/Sapling	5	55	5 - 10 feet	
						Sapling	
57	4130 - Aspen	Sapling Well	7.3	6	1-50	N/A	Stand was harvested in winter 2018 with GEMS 2017 Sale. Aspen regeneration is already over 3 feet tall. Next harvest planned in 2017.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		100	Sapling	1	6		
58	4134 - Aspen, Spruce/Fir	Sapling Medium	19.2	6	1-50	N/A	Cut with Garden Grade GEMS Sale 2017
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		80	Sapling	1	6		
Balsam Fir		20	Sapling	2			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
59	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	3.1	90	51-80	N/A																																														
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60	4130 - Aspen	Sapling Well	20.8	10	Immature	N/A																																														
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61	123 - Other High Intensity Urban	Nonstocked	9.2	0	Unspecified	No																																														
62	42340 - Upland Spruce/Fir	Poletimber Medium	44.6	37	51-80	N/A																																														
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65	6120 - Lowland Cedar	Poletimber Poor	47.3	80	1-50	N/A	Stand is mostly dead due to water issues.																																													
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67	4134 - Aspen, Spruce/Fir	Poletimber Well	21.3	48	111-140	N/A																																											
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69	429 - Mixed Upland Conifers	Sawtimber Well	6.7	88	81-110	N/A																																											
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70	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	7.0	39	81-110	N/A																																											
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71	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	7.0	70	81-110	N/A	Stand was set up and sold previously. Could not access due to creeks.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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72 4134 - Aspen, Spruce/Fir Sapling Poor 3.2 6 1-50 N/A Stand harvested with GEMS 2017 sale. Next harvest planned in 2057.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	20	Sapling	1	
Quaking Aspen	80	Sapling	1	6

73 4199 - Other Mixed Upland Deciduous Sawtimber Well 6.4 70 111-140 N/A Creek to north and pond to south. Acreage is too small to justify a bridge. Stand was set up and sold previously. Could not access due to creeks.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Log/Pole	12		Balsam Fir	High	5 - 10 feet	Sapling
Bigtooth Aspen	10	Log/Pole	12					
Paper Birch	40	Log/Pole	12	70				
White Spruce	10	Log/Pole	14					

74 612 - Lowland Coniferous Forest Poletimber Poor 0.9 73 1-50 N/A Island on Warner Lake

75 6129 - Mixed Coniferous Lowland Forest Poletimber Well 5.4 77 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	30	Pole	7	77	Black Spruce	Medium	5 - 10 feet	Sapling
White Pine	20	Pole/Log	9					
Black Spruce	20	Pole	7					
Tamarack	20	Pole	7					

76 4112 - Maple, Beech, Cherry Association Sawtimber Well 4.3 86 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Log/Pole	14	86	Balsam Fir	Medium	5 - 10 feet	Sapling
White Ash	10	Log/Pole	14		Sugar Maple	Medium	5 - 10 feet	Sapling
Sugar Maple	30	Log/Pole	14					
Beech	10	Log/Pole	14					

77 42380 - Non Pine Upland Conifer, Mixed Deciduous Sapling Well 4.4 26 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Sapling	2		Balsam Fir	High	5 - 10 feet	Sapling
Hemlock	10	Pole	7					
Quaking Aspen	20	Sapling	2	26				
Balsam Fir	30	Sapling	2	26				
Northern White Cedar	10	Pole	7					
Red Maple	10	Sapling	2					
White Pine	10	Pole/Sapling	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
78	4134 - Aspen, Spruce/Fir	Poletimber Well	18.7	33	81-110	N/A	OPIC - FMD: Stand is mixture of aspen and fir. It has clumps of red maple that were left during previous harvest on the steeper slopes, as well as some open grass areas. Treatment scheduled for 2022.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		20	Pole	6			
Balsam Fir		20	Pole	6			
Quaking Aspen		60	Pole	6	33		
79	4134 - Aspen, Spruce/Fir	Poletimber Well	20.1	33	51-80	N/A	GEMS plan treatment period 2027
Canopy Species		% Cover	Size Class	DBH	Age		
White Spruce		10	Pole/Sapling	5			
Bigtooth Aspen		60	Pole/Sapling	5	33		
Balsam Fir		20	Pole/Sapling	5			
White Pine		10	Pole/Sapling	5			
Sub-Canopy Species		Density	Avg. Height	Size			
Black Spruce		Medium	5 - 10 feet	Sapling			
Balsam Fir		Medium	5 - 10 feet	Sapling			
81	42350 - Upland Hemlock	Sawtimber Well	44.2	118	201+	N/A	Excellent hemlock regeneration where canopy gaps exist. It has established itself and recruited above deer height.
Canopy Species		% Cover	Size Class	DBH	Age		
Hemlock		80	Log/XLog/Pole	16	118		
White Pine		10	XLog/Log	18			
Yellow Birch		5	Log/XLog	16			
Red Maple		5	Log/Pole	12			
Sub-Canopy Species		Density	Avg. Height	Size			
Hemlock		High	10 - 20 feet	Sapling			
82	429 - Mixed Upland Conifers	Poletimber Well	16.4	33	Immature	N/A	GEMS plan treatment period of 2037.
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		15	Pole	6			
Quaking Aspen		30	Pole	6	33		
White Spruce		40	Pole	6	33		
White Pine		15	Pole	6			
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir		Medium	5 - 10 feet	Sapling			
White Spruce		Medium	5 - 10 feet	Sapling			
Black Spruce		Medium	5 - 10 feet	Sapling			
83	4130 - Aspen	Sapling Well	14.0	10	Immature	N/A	GEMS treatment period of 2052 10/31/11 bb Stand is now on proposal, 41-12-11 Little Fishdam Mix, Unit 6, 24 acres. Residual BA = white pine 1', oak 1'. Due to acreage being cut in half more retention was met. [12/27/20103 TI] Sale is closed. TCR date 11/1/2013
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		10	Sapling	1			
Quaking Aspen		80	Sapling	1	10		
Red Maple		10	Sapling	1			
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir		Medium	5 - 10 feet	Sapling			
85	6112 - Lowland Aspen	Poletimber Well	7.6	33	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		20	Pole	7			
Quaking Aspen		80	Pole	7	33		
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir		Medium	10 - 20 feet	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
87	4134 - Aspen, Spruce/Fir	Poletimber Well	21.8	48	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		80	Pole	6	48				
Balsam Fir		20	Pole	6					
88	4134 - Aspen, Spruce/Fir	Sawtimber Well	32.5	45	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Log/Pole	10		Balsam Fir	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		60	Log/Pole	10	45				
White Spruce		10	Log/Pole	10					
Balsam Fir		10	Pole	7					
89	6121 - Tamarack	Poletimber Poor	5.5	55	1-50	N/A	Stand is flooded and dying		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		20	Pole/Sapling	5		Black Spruce	Medium	5 - 10 feet	Sapling
Black Spruce		20	Pole/Sapling	5		Tamarack	Medium	5 - 10 feet	Sapling
Tamarack		60	Pole/Sapling	5	55				
91	6229 - Mixed lowland shrub	Nonstocked	9.7	0	Unspecified	No			
92	310 - Herbaceous Openland	Nonstocked	7.6		Unspecified	Managed Opening	Bur oak was planted by WLD in spring 2018.		
Sub-Canopy Species		Density	Avg. Height	Size					
Bur Oak		Medium	5 - 10 feet	Sapling					
94	4136 - Aspen, Mixed Conifer	Poletimber Poor	3.7	34	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		10	Pole	6		Balsam Fir	Low	< 5 feet	Sapling
White Pine		10	Pole	6					
Quaking Aspen		80	Pole	8	34				
95	310 - Herbaceous Openland	Nonstocked	2.0	0	Unspecified	No	See locked comments.		
96	429 - Mixed Upland Conifers	Sawtimber Well	20.5	105	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		15	Pole	8		Black Spruce	Medium	5 - 10 feet	Sapling
Hemlock		5	Log/XLog/Pole	14		Balsam Fir	Medium	5 - 10 feet	Sapling
Paper Birch		10	Pole	9		Hemlock	Medium	5 - 10 feet	Sapling
White Pine		45	Log/XLog/Pole	14	105	White Pine	Medium	5 - 10 feet	Sapling
Red Maple		20	Pole	9					
Red Pine		5	Log/XLog/Pole	16					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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97 6122 - Black Spruce Poletimber Well 4.4 86 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Pole/Log	9		Black Spruce	Medium	5 - 10 feet	Sapling
Black Spruce	75	Pole/Log	9	86	Balsam Fir	Medium	5 - 10 feet	Sapling
Red Maple	5	Pole/Log	9					
Quaking Aspen	5	Pole/Log	9					
Tamarack	5	Pole/Log	9					
Paper Birch	5	Pole/Log	9					

98 42290 - Natural Mixed Pine Sawtimber Well 5.3 110 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole/Log	9		Balsam Fir	Medium	5 - 10 feet	Sapling
Red Pine	10	Log/XLog	16		Black Spruce	Medium	5 - 10 feet	Sapling
Red Maple	10	Log/Pole	10					
Black Spruce	25	Pole	9					
White Pine	50	Log/XLog	16	110				

99 6122 - Black Spruce Sapling Poor 121.1 45 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	30	Sapling	2	45	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	70	Sapling	2	45				

100 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 13.4 63 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Pole/Sapling	5		Black Spruce	Medium	5 - 10 feet	Sapling
Black Spruce	40	Pole/Sapling	5	63	Tamarack	Medium	5 - 10 feet	Sapling
Tamarack	40	Pole/Sapling	5	63	White Pine	Medium	5 - 10 feet	Sapling

101 6122 - Black Spruce Poletimber Well 4.1 90 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	60	Pole	9	90	Black Spruce	Medium	5 - 10 feet	Sapling
Tamarack	20	Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
Red Pine	10	Log/Pole	14		White Pine	Medium	5 - 10 feet	Sapling
White Pine	10	Log/Pole	14					

102 42290 - Natural Mixed Pine Sawtimber Well 14.7 100 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	30	XLog/Log	18		Black Spruce	Medium	5 - 10 feet	Sapling
Black Spruce	15	Pole	9		Balsam Fir	Medium	5 - 10 feet	Sapling
Red Pine	50	XLog/Log	18	100				
Hemlock	5	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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103 6121 - Tamarack Poletimber Well 4.8 50 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	60	Pole/Sapling	5	50	Black Spruce	Medium	5 - 10 feet	Sapling
Black Spruce	40	Pole/Sapling	5		Tag Alder	Medium	5 - 10 feet	Tall Shrub

104 429 - Mixed Upland Conifers Sawtimber Well 18.0 85 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Log/Pole	14		Balsam Fir	High	5 - 10 feet	Sapling
Black Spruce	10	Pole	9		Black Spruce	High	5 - 10 feet	Sapling
White Pine	30	Log/XLog	16	85				
Paper Birch	10	Pole/Log	9					
Red Pine	20	Log/XLog	16					
Red Maple	20	Pole/Log	9					

105 429 - Mixed Upland Conifers Sawtimber Well 5.2 95 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	9		Black Spruce	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	10	Log/XLog	14		Balsam Fir	Medium	5 - 10 feet	Sapling
Red Maple	15	Pole/Log	9					
White Pine	20	XLog/Log	18					
Black Spruce	15	Pole	9					
Hemlock	5	Log/Pole	12					
Red Pine	30	XLog/Log	18	95				

405 4319 - Mixed Upland Forest Poletimber Medium 30.5 55 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	20	Pole	8	55	White Spruce	Medium	5 - 10 feet	Sapling
Red Pine	10	Log/Pole	12		Balsam Fir	Medium	5 - 10 feet	Sapling
White Spruce	20	Pole	8		Bur Oak	Low	5 - 10 feet	Sapling
White Pine	10	Pole	8					
Black Cherry	10	Pole	8					
Red Maple	20	Pole	8					
Jack Pine	10	Pole	8					

Stand is on WLD FTP. Boundary was changed to exclude the portion which was planted to oak. Remaining portions will be harvested and managed for WLD objectives.

429 429 - Mixed Upland Conifers Sawtimber Poor 10.4 55 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	30	Log/Pole	10		White Pine	Medium	5 - 10 feet	Sapling
Black Cherry	15	Pole	8		White Spruce	Medium	5 - 10 feet	Sapling
White Spruce	40	Log/Pole	10	55				
Quaking Aspen	15	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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432 429 - Mixed Upland Conifers Poletimber Medium 9.7 50 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	10	Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
White Pine	10	Pole	8		Red Maple	Medium	5 - 10 feet	Sapling
Quaking Aspen	10	Pole	8					
Black Cherry	10	Pole	8					
Balsam Fir	20	Pole	8					
Red Maple	20	Pole	8					
White Spruce	20	Pole	8	50				