



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41148

Entry Year 2018

Acreage: 1,941

County Schoolcraft

Management Area: Cusino Complex

Revision Date: 2016-08-31

Stand Examiner: Sheila Clark

Legal Description:

T47N R15W Sections 22, 26, 27, 28 & 34

Identified Planning Goals:

The main goal in this compartment is to conduct multiple resource management for current and future generations, while protecting its unique features.

Soil and topography:

The topography in this area is mostly flat. The soils are sandy to a sandy loam, with marsh areas consisting of mucky peat. The main soils in the hardwoods are Paquin Sands and Garlic Sands. These soils are moderately to well-drained depending on the depth to the ortstein layer (10 inches to very deep). In the jack pine and open areas in section 22 the soils are excessively drained Rubicon sands. Spot Finch Complex is present in the hemlock and lower hardwoods. It is poorly drained and ranges from 0-13 inches until the ortstein layer is reached. The last major soil in the area is Dawson-Kinross Complex which is peat that is very deep and poorly drained. Jack pine and black spruce in section 26 are the major cover types on this complex.

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

The major landowners in this area are the State and Forestland Group. Around Driggs Lake and Section 22 is where a majority of the private ownership exists. This unit is used by a variety of people for recreation and hunting. There are no gates in the area.

Unique Natural Features:

According to MNFI, there is loon habitat in the west and northwest, sharp-tailed grouse to the north and osprey habitat to the west. Vegetatively, there is sweet coltsfoot to the southwest, and alga pond weed and American shoregrass in the marshes to the northwest. The hardwood areas are a dry-mesic type, with a patterned fen in the southwest.

Archeological, Historical, and Cultural Features:

There may be an old camp site in Section 27.

Special Management Designations or Considerations:

There is no special management for sharp-tailed grouse, since there are large maintained openings to the north of this unit.

Watershed and Fisheries Considerations:

The Driggs River goes along the western edge of the compartment. It is designated a high quality trout stream. A buffer of at least 250 feet with no activity is recommended. Driggs Lake and Greenway Lake are in Section 22. Perch Lake is in the northeast part of Section 26.

Wildlife Habitat Considerations:

This compartment lies along the east bank of the Driggs River and contains Greenway Lake. According to the General Land Office notes, the first surveyors (circa 1850) found the upland forest contained a mixture of white pine, hemlock, red maple, yellow birch and beech. Mountain ash was an important component of the understory. Lowland forests consisted of spruce, tamarack, and cedar. The current forest condition is fairly similar in species composition to that found by the first surveyors. However, white pine and hemlock are not nearly as prevalent as in the pre-settlement forest. Also, the lowlands currently contain more jack pine than was noted during the GLO survey. The wildlife habitat management goals for this compartment include enhancing the conifer component within the hardwood stands, encouraging over-all diversity within the hardwood forest, and promoting structural and species diversity within the lowland conifers. This compartment lies within the Cusino Complex Management Area and the featured species within this MA are American marten, moose, American black bear, gray jay, northern goshawk, ruffed grouse, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

This area is predominately sand or muck. There is no bedrock close to the surface. In general, the ground is glacial outwash plains that are moderately to well-drained. The parent material is sandy glaciofluvial deposits, with some soils having a layer of herbaceous organic over top. Gravel appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

Access to the compartment is good; the Driggs River Road goes through the west side of the compartment. The Walsh grade and County Road 450 access the unit from the west and Mahoney/Fox River Road from the east. There are two-tracks throughout the hardwoods and higher jack pine. There are no gates.

Survey Needs:

May need survey work in stand 37.

Recreational Facilities and Opportunities:

Recreational opportunities include hunting, and birding.

Fire Protection:

This compartment is approximately 13 miles north of Seney station. The current road system should be sufficient.

Additional Compartment Information:

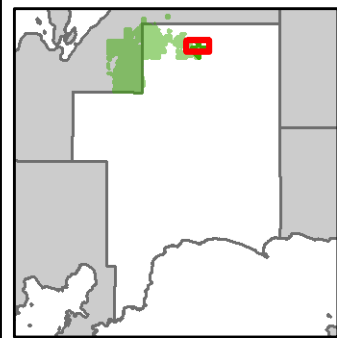
The following reports from the Inventory are attached:

- 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:

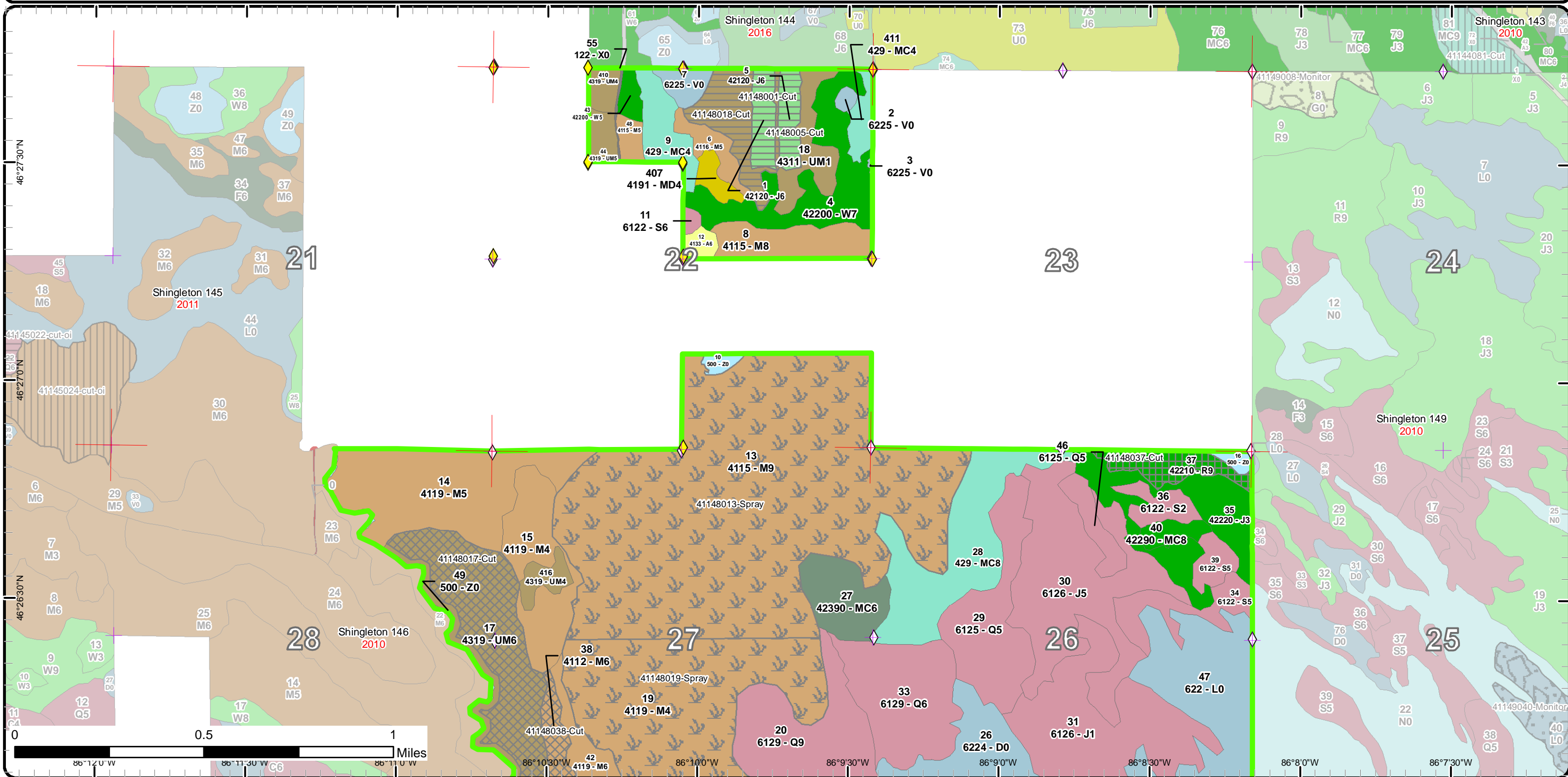
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

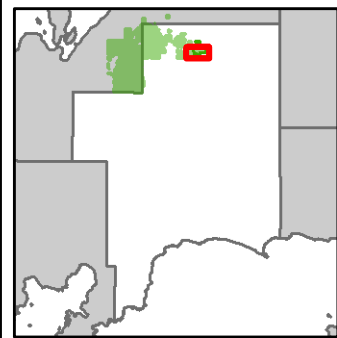


Compartment: 148
 T47N, R15W, Sec: 22, 26-28, 34
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area:CUSINO Complex
 YOE: 2018
 Acres: 1,941 GIS Calculated
 Examiner: Sheila Clark
 Map Revised: 12/6/2016
 Map Phase: Post Review

- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- ▭ Compartment Boundary
- ▨ Selection (Group, Single Tree)
- ▩ Clearcut (w/Reserves)
- ▧ Pesticide
- ▦ Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 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
- 122 - Roads/Parking Lot
- 500 - Water
- 622 - Lowland Shrub

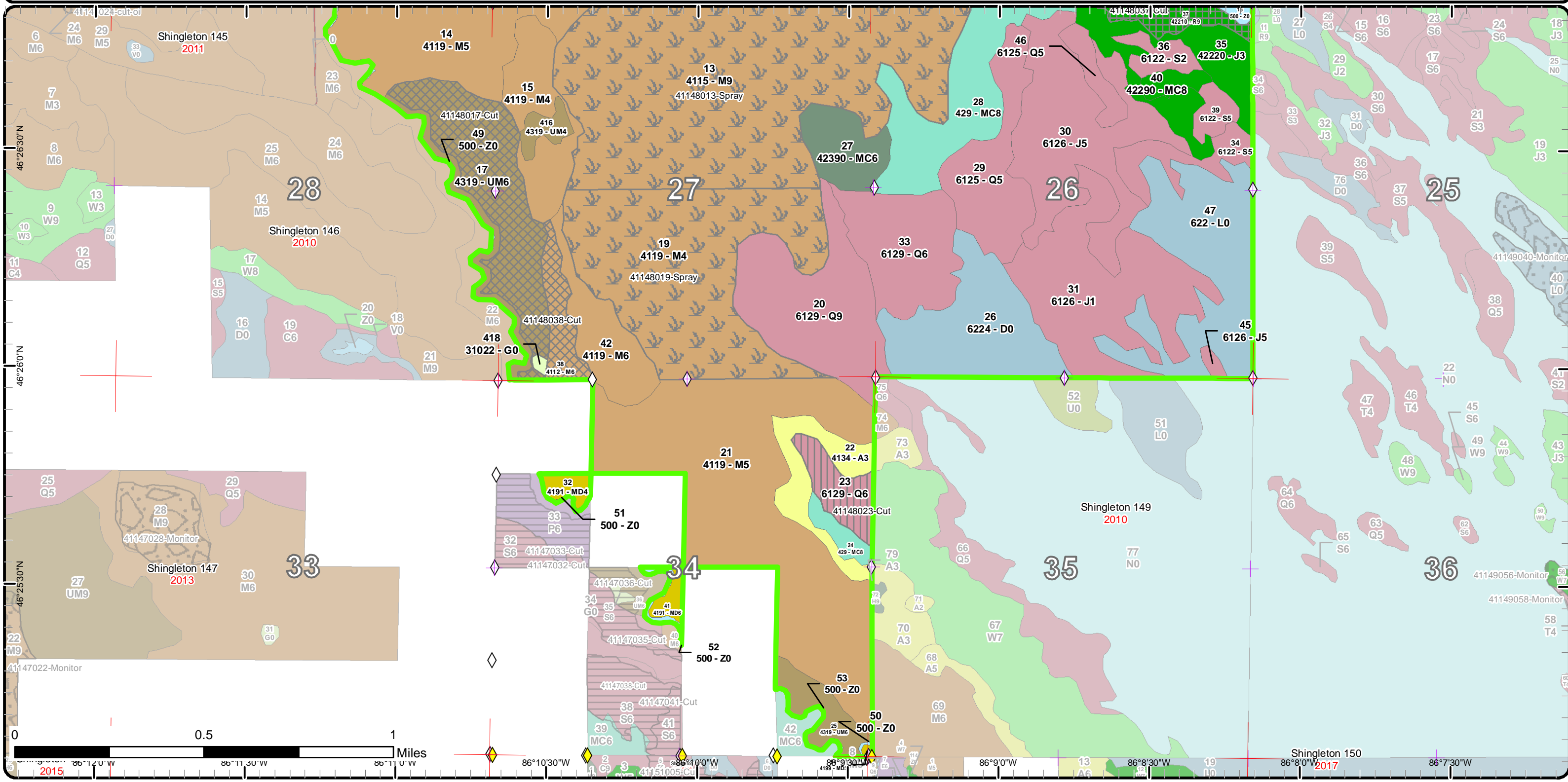


Cover Type & Treatments Map

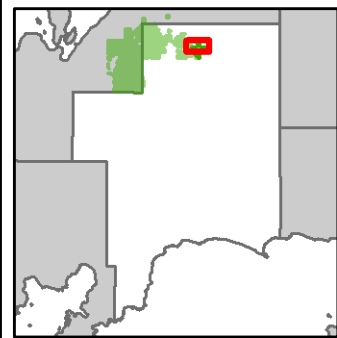


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- ▧ Shelter Wood (w/Reserves)
- ▦ Seed Tree (w/Reserves)
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- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub

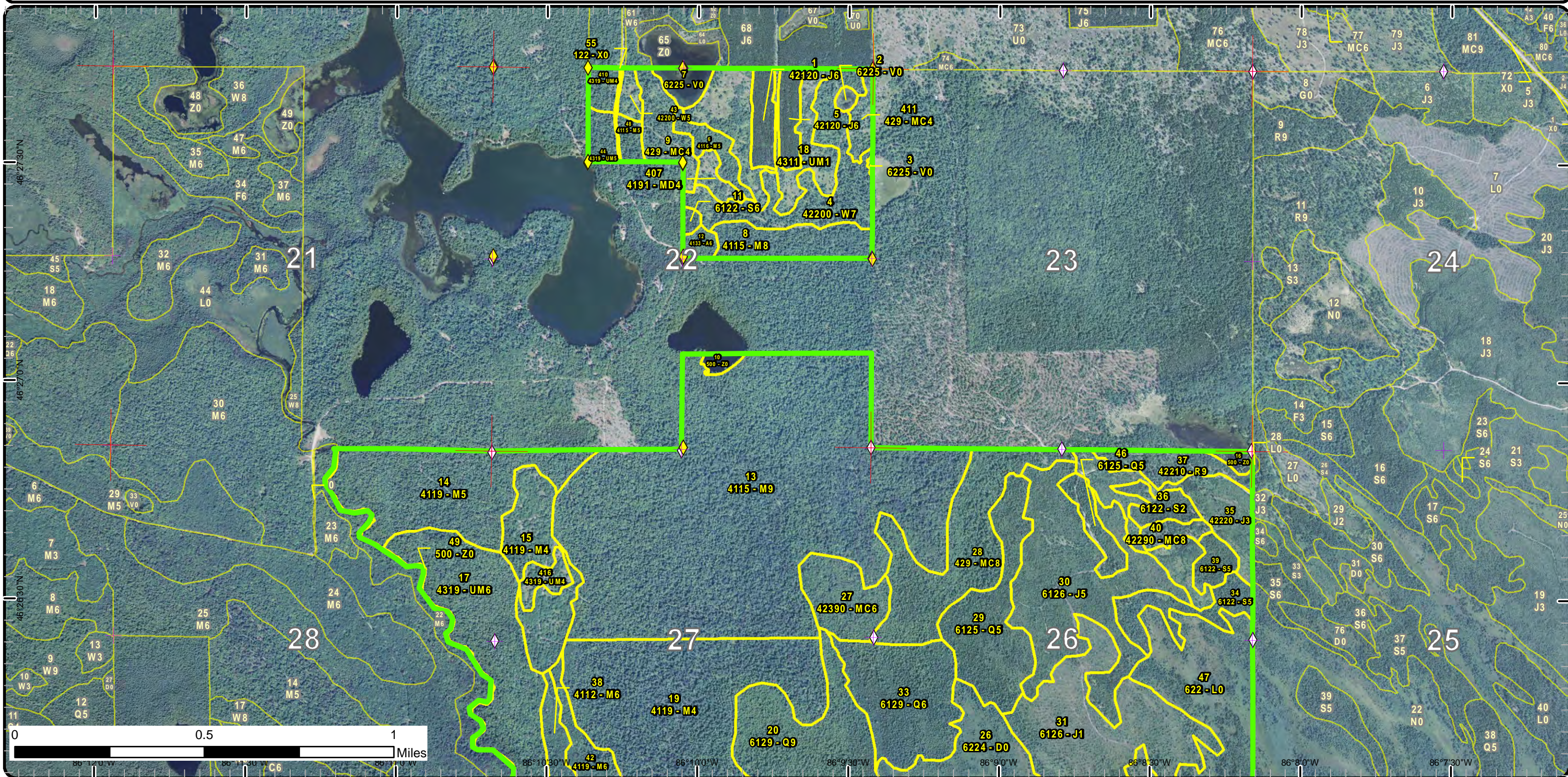


Stand Boundary Map



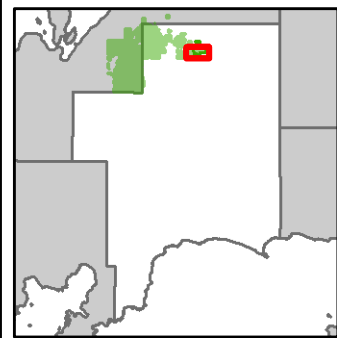
Compartment: 148
 T47N, R15W, Sec: 22, 26-28, 34
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Casino Complex
 YOE: 2018
 Acres: 1,941 GIS Calculated
 Examiner: Sheila Clark
 Map Revised: 12/6/2016
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- ◆ Survey Grade GPS Corners
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- Stand Boundaries
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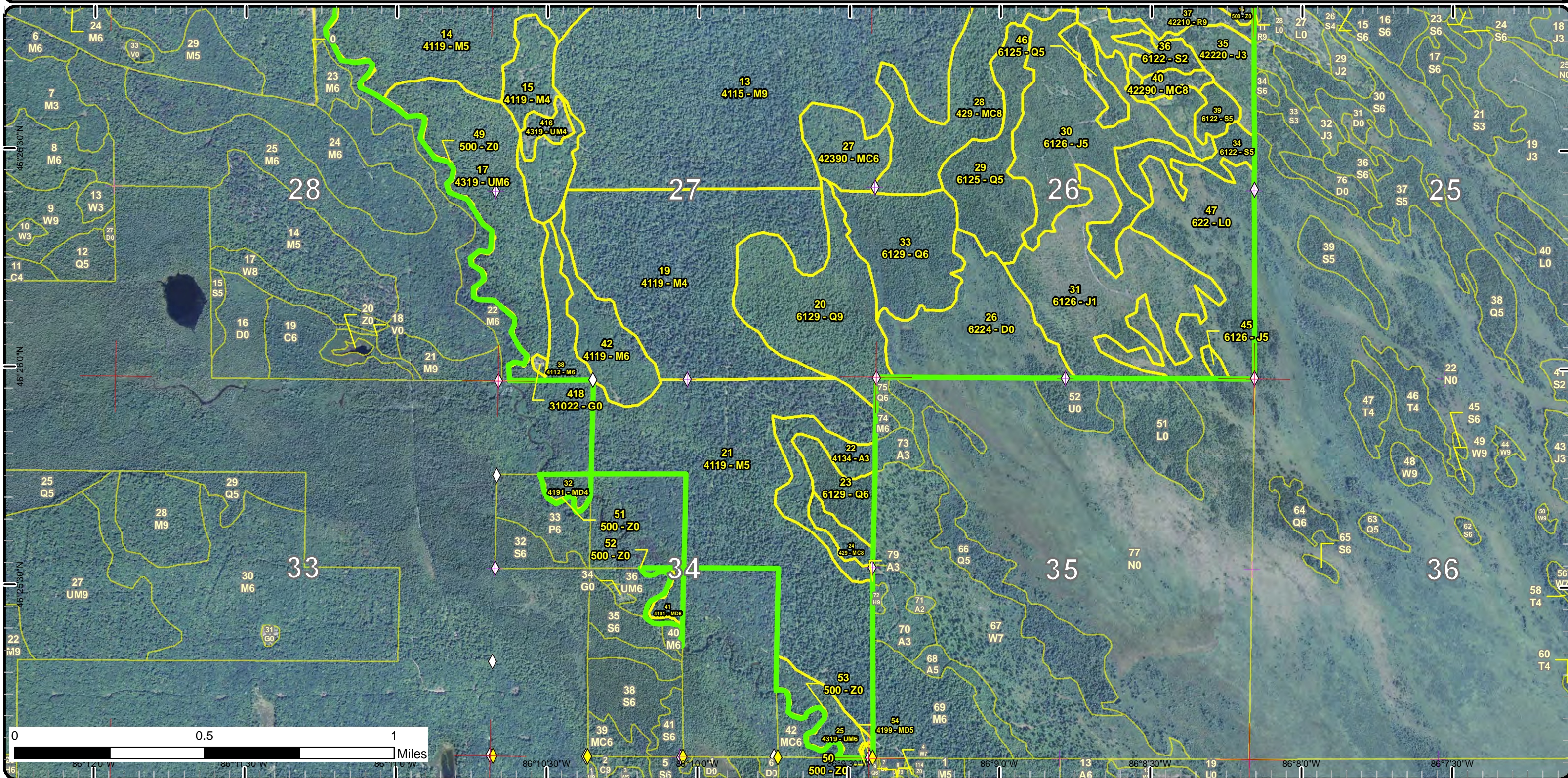


Stand Boundary Map

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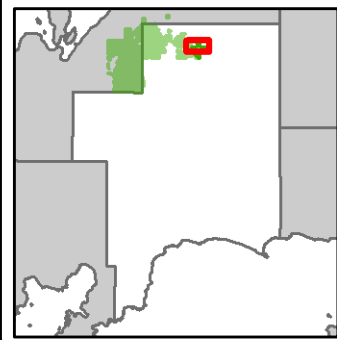


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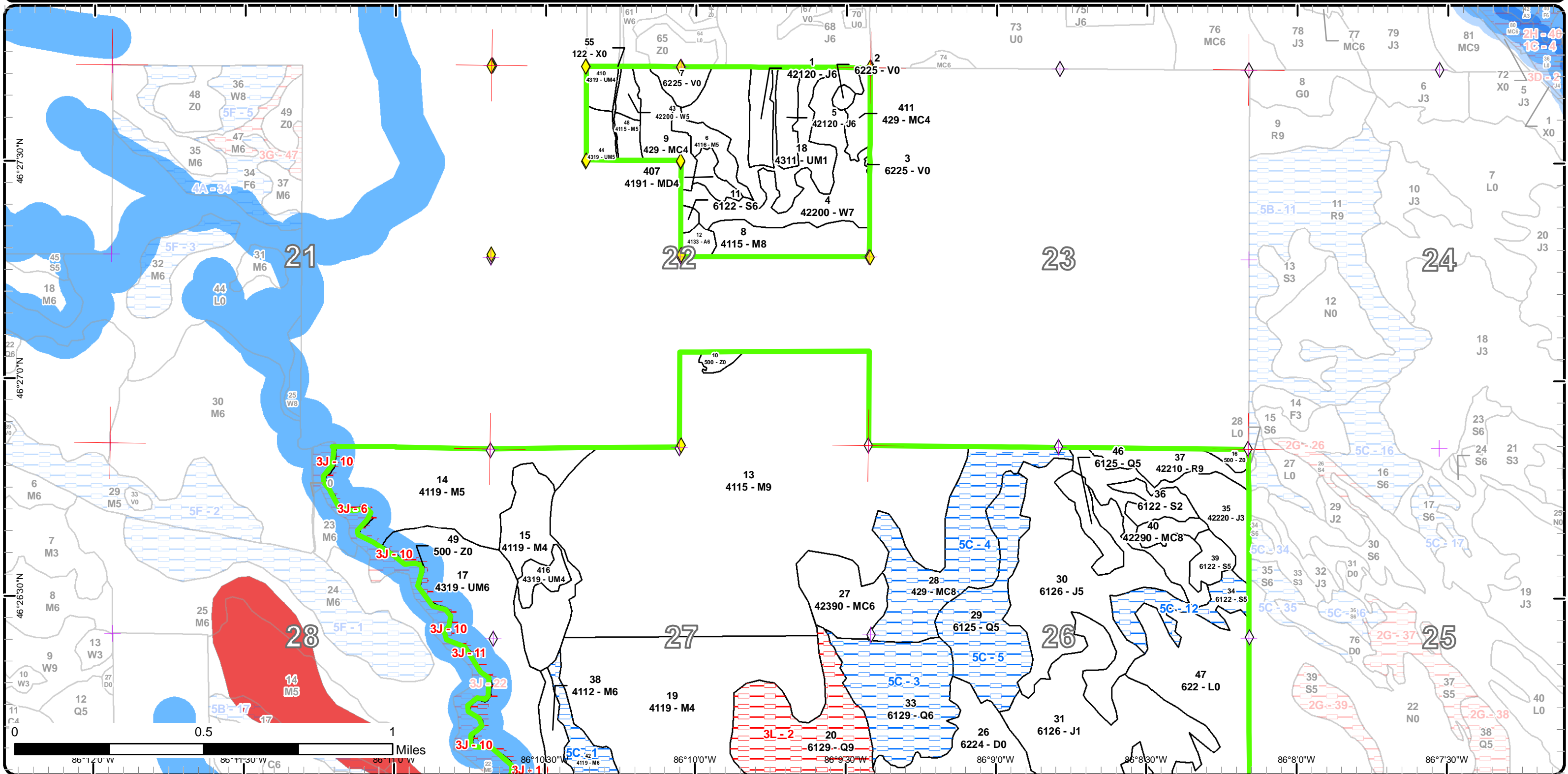


Special Conservation Areas & Site Conditions Map

Compartment: 148
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 Unit: Shingleton
 Mgmt Area: Casino Complex
 YOE: 2018
 Acres: 1,941 GIS Calculated
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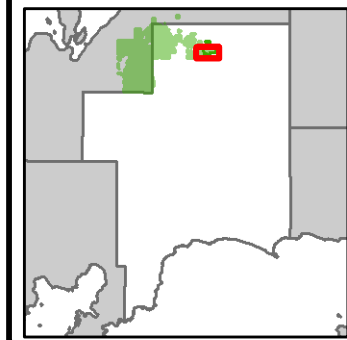


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer

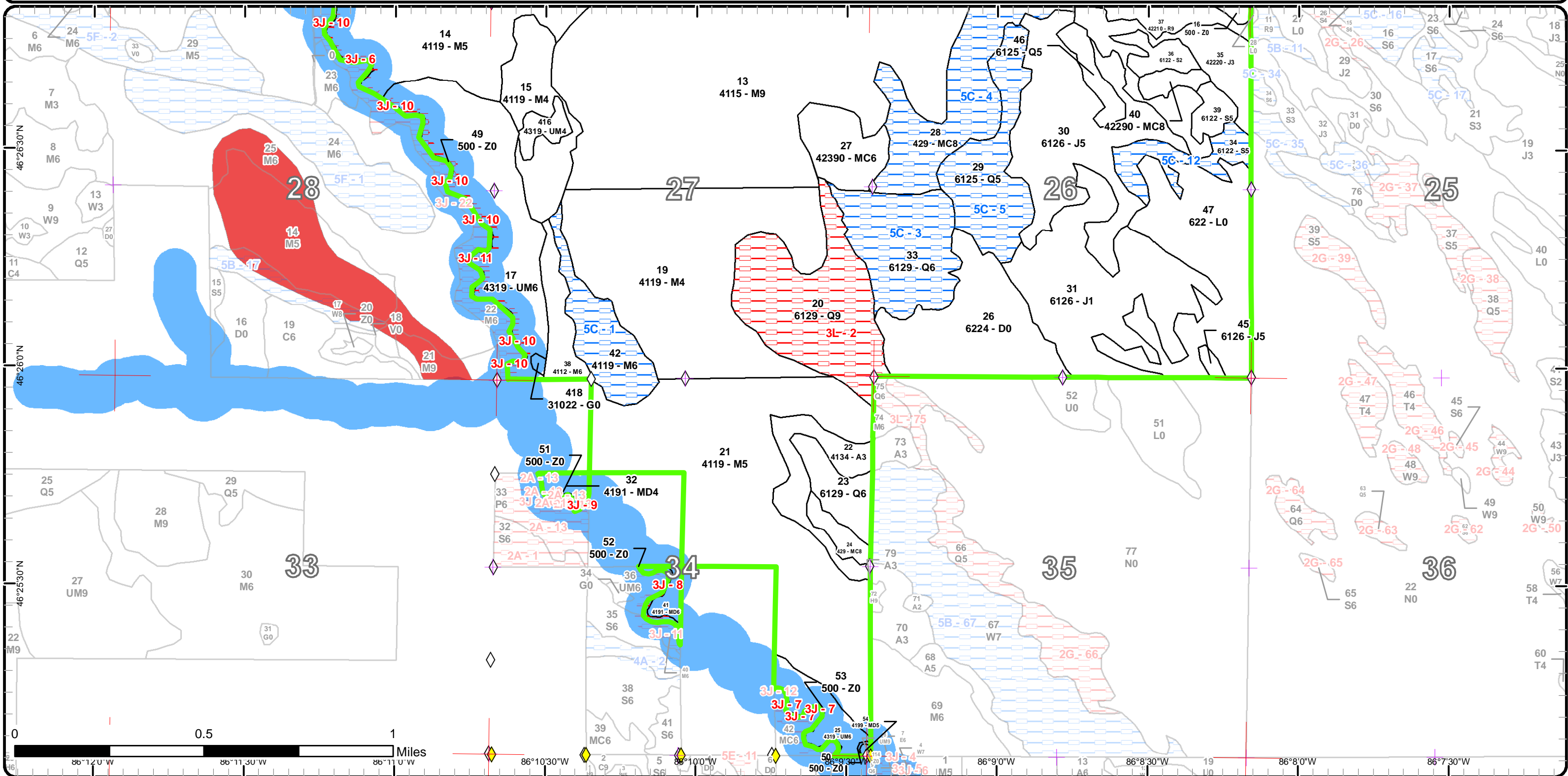


Special Conservation Areas & Site Conditions Map

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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	0	0	25	4	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Jack Pine	0	94	40	0	86	20	0	2	0	0	0	0	0	0	0	0	0	0	242
Lowland Conifers	0	0	0	0	0	0	0	0	10	119	0	77	0	0	0	0	0	0	205
Lowland Shrub	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84
Lowland Spruce/Fir	0	0	0	0	0	0	9	0	29	0	0	0	0	0	0	0	0	0	38
Mixed Upland Deciduous	0	0	0	0	6	0	5	0	5	1	0	0	0	0	0	0	0	0	16
Natural Mixed Pines	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	0	0	0	9	0	36	0	620	0	0	0	0	0	0	0	229	894
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15
Treed Bog	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Upland Conifers	0	0	0	7	0	0	0	0	0	78	7	0	0	0	0	0	0	25	116
Upland Mixed Forest	0	0	0	13	6	0	0	0	0	97	0	0	0	0	0	0	0	39	155
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
White Pine	0	0	0	0	5	0	0	0	0	43	0	0	0	0	0	0	0	0	47
Total	176	94	40	45	107	29	14	44	44	958	7	77	0	0	0	0	0	308	1939



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2018

Acres of Harvest

Compartment 148
Total Compartment Acres: 1,941

Commercial Harvest - 162
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	20	0	0	0	0	0	0	0	0	20
Lowland Conifers	0	0	0	0	18	0	0	0	0	18
Northern Hardwood	0	17	0	0	0	0	0	0	0	17
Red Pine	0	0	0	15	0	0	0	0	0	15
Upland Mixed Forest	22	70	0	0	0	0	0	0	0	92
Total	42	86	0	15	18	0	0	0	0	162

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	162	0	0	0	0	506	0	0	0	667
Next Step	0	100	144	0	0	0	687	0	0	930
Total	162	100	144	0	0	506	687	0	0	1597



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	41148001-Cut	10.3	42120 - Planted Jack Pine	Poletimber Well	48	171-200	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Harvest all merchantable trees leaving a pocket of retention. Stumps low and scatter slash. Do not cut oak or hemlock

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Acceptable Jack Pine

Regen:

Other This harvest will help increase stand age diversity for wildlife.

Comment:

Proposed Start Date: 10/01/2017

5	41148005-Cut	9.5	42120 - Planted Jack Pine	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Harvest all trees, leaving a pocket of retention. leave stumps low and scatter slash. Do not cut any oak or hemlock.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable Jack Pine

Regen:

Other Cutting this stand will increase age diversity in the area for wildlife.

Comment:

Proposed Start Date: 10/01/2017

13	41148013-Spray	353.2	4115 - Y.Birch, Hemlock NH	Sawtimber Well	80	51-80	Pesticide	Skidder/Mechanical	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Spray beech brush for research purposes. Protect planted oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any current species.

Regen:OtherComment:

Proposed Start Date: 10/01/2017

17	41148017-Cut	69.6	4319 - Mixed Upland Forest	Poletimber Well	80	111-140	Harvest	Group Selection	429 - Mixed Upland Conifers	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark stand to approximately 60 square feet, concentrating on marking large gaps where existing regeneration exists or wher mature trees need to be removed. Open up around hemlock and cherry to encourage regeneration. Do not cut oak or hemlock. Cut all merchantable balsam fir. The Driggs river is on the West edge, buffer 50 feet and no regen gaps within 100 feet.

Next Step Monitoring, Natural Regen (Re-Inventory); Planting, Interplant

Treatments:

Acceptable Any current species is acceptable regeneration.

Regen:

Other Stand 418 (opening) see other info.

Comment:

Proposed Start Date: 10/01/2017

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
18 41148018-Cut	22.4	4311 - Pine, Aspen Mix	Sapling Poor	25	1-50	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Remove all trees leaving retention in southern finger, harvest to a two inch diameter. Do not cut any oak or hemlock. Have stumps low and slash scattered..

Next Step SitePrep, Trenching; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Acceptable Jack plne and aspen. Do not plant southern most finger of the stand.

Other Do not plant southern most finger of the stand.

Proposed Start Date: 10/01/2017

19 41148019-Spray	152.3	4119 - Mixed Northern Hardwoods	Poletimber Poor	80	1-50	Pesticide	Skidder/Mechanical	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Spray beech brush for research purposes. Protect planted oak.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Any current species

Other

Proposed Start Date: 10/01/2017

23 41148023-Cut	17.9	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	81	141-170	Harvest	Shelterwood	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut stand leaving only hemlock, oak and cedar. Leave a pocket of retention.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Amy current species is acceptable.

Other

Proposed Start Date: 10/01/2017

37 41148037-Cut	15.3	42210 - Natural Red Pine	Sawtimber Well	76	111-140	Harvest	Seed Tree with Retention	4221 - Natural Red Pine	Two-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Harvest stand leaving 20-30 sq feet. Avoid oak seedlings where possible. Exclude east tail of stand and leave BA higher near the lake.

Next Step SitePrep, Scarification; Planting, Underplant; Monitoring, Natural Regen (Re-Inventory)

Acceptable Any current species.

Other May need survey work.

Proposed Start Date: 10/01/2017



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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
38	41148038-Cut	16.6	4112 - Maple, Beech, Cherry Association	Poletimber Well	72	81-110	Harvest	Group Selection	4319 - Mixed Upland Forest	Two-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Mark stand to approximately 60 square feet, concentrating on marking large gaps where existing regeneration exists or wher mature trees need to be removed. Open up around hemlock and cherry to encourage regeneration. Do not cut oak or hemlock. Cut all merchantable balsam fir.
Specs:

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

Acceptable Any current species.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

Total Treatment Acreage Proposed: 667.1

Report 4 – Site Conditions

Shingleton Mgt. Unit

Sheila Clark : Examiner

Compartment: 148

Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	3J	3L
		With Condition	Not Available				
29	29	0	0	Aspen			
9	9	0	0	Bog			
1	1	0	0	Herbaceous Openland			
242	242	0	0	Jack Pine			
205	28	100	77	Lowland Conifers	100		77
84	84	0	0	Lowland Shrub			
38	19	19	0	Lowland Spruce/Fir	19		
16	16	0	0	Mixed Upland Deciduous			
6	6	0	0	Natural Mixed Pines			
894	860	31	3	Northern Hardwood	31	3	
15	15	0	0	Red Pine			
66	66	0	0	Treed Bog			
117	56	61	0	Upland Conifers	61		
155	144	0	11	Upland Mixed Forest		11	
1	1	0	0	Urban			
15	6	0	9	Water		9	
47	47	0	0	White Pine			
1,941	1,630	211	100	Total Forested Acres	211	23	77
	84%	11%	5%	Relative Percent			

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment: 148
Year of Entry: 2018

2	Unavailable	3L: Other wildlife concerns	77	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A lot of sub-merchantable hemlock and cedar regeneration in the stand. leave for cover.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment: 148
Year of Entry: 2018

8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Driggs River							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Driggs River.							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Driggs River.							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42120 - Planted Jack Pine	Poletimber Well	10.3	48	171-200	<p>OPIC - FMD: Stands 1 and 5 the same. Nearly 100 square feet of BA of 3-4 stick JPN. Zero to very light jack pine budworm damage. Can let grow until next entry. Larger white pine are scattered in the stand.</p> <p>2016 - Healthy looking stand, still no budworm damage. Some scattered large white pine and red pine. Not a lot of understory other than ferns and grass.</p>
4	42200 - Natural White Pine	Sawtimber Poor	42.8	80	51-80	<p>OPIC - FMD: Stand was part of a timber sale that sold but reverted back because purchaser declared bankruptcy. Covertype and SD is highly variable. Overall, call it a W6. Understory is 8-10 feet tall mostly fir with white pine, red maple and beech. Quaking aspen is in clones. Recommend putting up for sale as previously prescribed. Cut all trees with one or more sticks except red pine, white pine, hemlock, yellow birch and oak. See Driggs Lake Hardwood sale 067-98-01. Expect natural regen of same species. Cord 99 = beech (7 BA), yellow birch (2 BA). Cord 98 = balsam (5 BA), hemlock (5 BA), white spruce (3 BA).</p> <p>[06/07/09] Stand is now under contract TS # 41-049-08-01 Driggs Lake Hardwood. Residual BA: beech = 1; w.pine = 29; red pine = 1; hemlock = 6; total = 37 sq.ft/acre.</p> <p>[07/15/10] Sale is now closed/completed TCR dtd 07/14/10.</p> <p>2016- Stand was cut in 2010. Hemlock and white pine are the main over story due to their diameter, so they are considered the canopy and the regeneration is the sub canopy. Stand has regenerated well.</p>
5	42120 - Planted Jack Pine	Poletimber Well	9.5	48	81-110	<p>OPIC - FMD: Nearly 100 square feet of 3-4 stick JPN. Zero to very light jack pine budworm damage.</p> <p>2016 - Beautiful looking jack pine. Still very little budworm damage. A few white pine and hardwood scattered in stand.</p>
6	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	9.0	46	111-140	<p>OPIC - FMD: Stand has scattered big-tooth and quaking aspen poles with red maple poles in stump sprouts. Regen is mostly White pine, fir and red maple. Occasional large hemlock and white pine. Leave for 10 years and then check for possible clearcut with reserves to encourage aspen, white pine, fir and hemlock. 2016 - Stand appears 2-aged, though not through cutting, the open areas are filling in. Aspen is more predominate in the south. Stand looks healthy, though hitting maturity of aspen.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
8	4115 - Y.Birch, Hemlock NH	Sawtimber Medium	23.2	80	81-110	<p>OPIC - FMD: UNDERPLANT WITH OAK. Sale was never cut--FPT was closed. 2006-Stand was part of Driggs Lake Hardwood sale 067-98-01 but was not cut. Purchaser declared bankruptcy and let the sale revert. Orange paint still visible but should be remarked because the beech has been hit hard by beech bark disease and probably will not survive to next inventory. Regen is heavy to beech and hit by BBD. Recommend cutting using previous cutting specs. Occasional pockets of H9 exist. Hardwood logs 99 = red maple (36 BA), hard maple (2 BA), yellow birch (2 BA). Hardwood cords 99 = r maple (24 BA), h maple (6 BA), beech (12), y birch (6). This stand may need to be remarked to freshen old marks and perhaps select different trees due to extent of BBD. Natural regeneration is expected from existing species. After sale closes, underplant with oak. [06/07/09] Stand is now under contract TS # 41-049-08-01 Driggs Lake Hardwood. See FTP W41-1399 (underplant oak.) Residual BA: red maple = 39; beech = 7; w.pine = 1; hemlock = 14; total = 61 sq.ft/acre. [07/15/10] Sale is now closed/completed TCR dtd 07/14/10. Oak was Handplanted in 2011 using a NCWA crew at a cost of \$1349.00. (3/10/14RH)</p> <p>2016 - Beech is the main regeneration species. Could not identify any oak.</p>
9	429 - Mixed Upland Conifers	Poletimber Poor	16.5	80	1-50	<p>OPIC - FMD: UNDERPLANT WITH OAK. Sale not cut--FTP closed. 2006-This stand was part of Driggs Lake Hardwood sale #067-98-01 but was not cut. This area is mostly poor quality hardwood with hemlock and white pine. Beech is infected with beech bark disease. Regen is beech and red maple with balsam, white pine and hemlock. [06/07/09] Stand is now under contract TS # 41-049-08-01 Driggs Lake Hardwood. See FTP W41-1399 (underplant oak.) Residual BA: beech = 7; w.pine = 13; hemlock = 9; total = 29 sq.ft/acre. [07/15/10] Sale is now closed/completed TCR dtd 07/14/10.</p> <p>2016 - This stand was cut removing all hardwood. Remaining over-story is predominately white pine and hemlock. Understory is 2-4 dbh regeneration. Beech regen is not as high as other stands.</p>
11	6122 - Black Spruce	Poletimber Well	1.8	76	111-140	<p>OPIC - FMD: Recommend not cutting this stand until more stems are merchantable, perhaps next entry. Nice stand of spruce with some white pine poles.</p> <p>2016 - Stand is predominately low ground, though some high ground. Stand is healthy could be left or cut.</p>
12	4133 - Aspen, Mixed Pine	Poletimber Well	4.1	34	81-110	<p>OPIC - FMD: Excellent site for big-tooth aspen. Growing well. Understory heavy to hardwood especially beech. Beech in overstory is infected with Beech bark disease and won't last long. Stand along the west forty line is a different type--mostly hemlock and M6 with fir/hemlock regen for about 2 chains.</p> <p>2016 - Not a lot of change other than beech dying off. No activity.</p>



S t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	4115 - Y.Birch, Hemlock NH	Sawtimber Well	353.2	80	51-80	<p>OPIC - FMD: WHITE PINE AND OAK UNDERPLANTING, 1996. FTP completed in 1998. 2006-Stand thinned in 1995--Big Greenway sale 012-93-01. Stand is mostly poor quality timber with occasional better quality pockets. Beech has been hit hard by beech bark disease. Regen is 8-12 feet tall and is also heavy to beech with maple, white pine, hemlock and fir. Hemlock and large white pine are scattered in stand. Hardwood logs 99 = beech (4 BA), y birch (2 BA), b cherry (1 BA). Softwood cords 98 = hemlock (6 BA), fir (3 BA), cedar (1 BA). From review: Salvaging the worst 50% of the beech infected trees. Inmates should do the salvaging and maybe contact Bob Heyde about prescription needs.</p> <p>[8-26-09] DOC sale closed incomplete - TCR dtd 8-26-09. Approx. the north half of the stand was cut - see sale files for clarification.</p> <p>10/11/11 bb This stand is now on proposal 33-11 "Last Beech Standing", 154 acres, Residual BA = hemlock 25', mixed hardwood 30', white pine 1' and yellow birch 2', 58 total. The stand will be evaluated after harvest for herbicide needs. This stand was originally on the 2011 POW to salvage portions of the stand that the inmates did not cut which is why the acreage was significantly reduced. A Chapter 7 change is being circulated to tweak prescription to cut all the live beech in order to eliminate the seed source which matches what went through review in the adjacent stands to the south which are also part of this sale. After harvest the stand will be evaluated for herbicide application.</p> <p>[5-15-12] Stand is now under contract TS# 41-033-11-01 Last Beech Standing.</p> <p>9/4/12 bb FTP C41-1537 is now approved for beech brush spraying, the entire acreage likely will not get done. The portion cut by DOC will be done first with the versa-tile and mist blower.</p> <p>10/8/12 Rh 13.2 Ac sprayed in fall of 2012 total cost of 85\$. Due to brush only 60 feet off of two tracks was treated.</p> <p>12/18/12 RFT - Sale is now closed/completed TCR dtd 12-17-12.3/18/14 bb FTP W41-1567 was submitted by Wildlife for planting red oak saplings, a completion report was generated showing a total 470 red oak saplings were planted in all of stands 13 and 19 by contract crew in July of 2013.</p> <p>3/18/14 bb FTP W41-1567 was submitted by Wildlife for planting red oak saplings, a completion report was generated showing a total 470 red oak saplings were planted in all of stands 13 and 19 by contract crew in July of 2013.</p> <p>Stand has regenerated well, all age classes are represented. There are occasional oak poles throughout the stand.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	4119 - Mixed Northern Hardwoods	Poletimber Medium	73.3	80	51-80	<p>OPIC - FMD: Much of this stand could be classed as 2-storied--60+ years for poles/saw and 15-20 years for seedling/sapling. Regen is 8-15 feet tall and heavy to beech. Beech bark disease is in the stand. The soft and hard maple and cherry are generally poor quality crooked forked stump strouts. Recommend thinning the stand leaving 60-70 square feet of BA. Leave some larger hardwood trees for diversity (cut some of the better quality hardwood and leave some of the poor quality individuals as mast and habitat trees). Retain all softwood species (hemlock, cedar, pine, spruce and fir). Generally, this stand is low quality and a new stand starting from seed origin would be more diverse and desirable. Leave a 100' buffer along the Drigg's River. Most of the hemlock and pine lie within this buffer--do not cut trees within buffer. After the rest of the stand is selectcut, OAK could be planted in the heavier cut areas. Trees should be marked to cut. Softwood cord 98 = fir (5 BA), w spruce (3 BA), w pine (saw 2 BA). Hardwood logs 99 = h maple (6 BA), r maple (4 BA), beech (2 BA), y birch (2 BA). Hardwood cords = b cherry (2 BA) beech (2 BA). [11-23-09] Stand is now under contract - TS 41-048-08-01 South Driggs Hardwood. Residual BA = approx. 68 sq.ft./acre [11-10-11] Sale is now closed TCR dtd 9-12-2011. See FTP W41-1400 (handplant oak). 2016 - Stand has good regeneration. Not enough over-story to warrant a harvest, maybe in 20 years once regeneration is taller. No activity at this time. Could not tell about oak planting.</p>
15	4119 - Mixed Northern Hardwoods	Poletimber Poor	36.3	40	1-50	<p>OPIC - FMD: Stand 15 was much larger but was split into two stands (15 and 42). The north part (still 15) is more semi-open with clumps of black cherry but the trees in the south part (now 42) are more evenly distributed as in a fully stocked stand. Softwood cords 98 = fir (5 BA), w pine (2 BA), w spruce (2 BA).</p> <p>2016 - Stand is slowing filling in with sub-merchantable trees. The balsam fir and spruce are harvestable, but there is not enough volume. No activity at this time.</p>
17	4319 - Mixed Upland Forest	Poletimber Well	81.0	80	111-140	<p>OPIC - FMD: Stand was thinned in 1994. Cut pretty hard. Merchantable timber is generally poor quality crooked, forked stump strouts. Regen is 8-15+ feet tall. Beech infected with BBD. 2016 - There is not a lot of beech in the understory. Most of the regeneration is 10-20 feet tall. There is more volume in the southern part of the stand. there is a ridge along Driggs river.</p>
18	4311 - Pine, Aspen Mix	Sapling Poor	39.0	25	1-50	<p>OIPC - FMD 2006 - Stand is filling in from edges and mostly forested. Wildlife has opted to manage more openings in adjacent compartment. this stand was prescribed for a burn but was not completed. Could plant oak. 2016 - Stand is continuing to fill in. There are a lot of sub-merchantable trees. No activity at this time.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4119 - Mixed Northern Hardwoods	Poletimber Poor	152.3	80	1-50	<p>OPIC - FMD: ndy loam that is not as well-drained. - SKC 7/06 Cut under TS #57-98 TCR dtd 12-08-02. See FTP # C41-972 - underplanting white pine & oak.</p> <p>[7-27-04 RFT] Oak & WP handplanted by inmates under FTP W41-972 - work completed 5-18-04. Hardwood cords 99 = beech (4 BA), r maple (3 BA). Hardwood logs 99 = r maple (5 BA), y birch (4 BA), h maple (4 BA). Also, w pine sawlogs (3 BA).</p> <p>5/10/11 BB This stand was reviewed at the 2012 Compartment Review as part of a Unit Wide Beech Analysis Project. It was decided at the Review to harvest all the beech and not leave any residual besides the standing dead. The reason was to eradicate the seed source. After the harvest at some point it was agreed to treat the beech brush with a glyphosate chemical. This site has decent hemlock and white pine regen and will be a good place to enhance that in the future. Below is the original write-up for the beech bark stands.</p> <p>10/11/11 bb This stand is now on proposal 33-11 "Last Beech Standing", 143 acres, Residual BA = hemlock 26', mixed hardwood 28' and yellow birch 1', 55 total. The stand will be evaluated after harvest for herbicide needs.</p> <p>[5-15-12] Stand is now under contract TS# 41-033-11-01 Last Beech Standing.</p> <p>12/18/12 RFT - Sale is now closed/completed TCR dtd 12-17-12.</p> <p>3/18/14 bb FTP W41-1567 was submitted by Wildlife for planting red oak saplings, a completion report was generated showing a total 470 red oak saplings were planted in all of stands 13 and 19 by contract crew in July of 2013.</p> <p>2016 - Beech was cut out leaving only a few trees, pole sized in the overstory (enough to make 25%). Stand looks like an overstory removal. No activity for 20 to 30 years. The regeneration looks good. There is a good variety of trees, beech is a component, but not dominate.</p>
20	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	77.1	109	111-140	<p>OPIC - FMD: This is a variable stand that is a transitional area from the higher hardwoods to the jack pine swamps. The soils are fine loamy sand in the west and poorer drained soils on the SE side of the stand. There is an ephemeral drain that goes through the center of the stand and is covered with tag alder. The stand has a variety of age classes and diameters. Parts have no mature timber, and others have no regeneration in the overstory. The stand is doing a good job of managing itself, with adequate regeneration of all species. Harvesting of the stand should not occur until the hemlock regeneration is at least 4 inches in diameter. SKC 7/06. Softwood cords 98 = fir (3 BA), cedar (3 BA). Also, hardwood cords beech (2 BA), w birch (2 BA). 2016 - No change and no activity.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4119 - Mixed Northern Hardwoods	Poletimber Medium	193.6	80	51-80	<p>OPIC - FMD: TP # C41-972 - underplanting white pine & oak. [7-27-04 RFT] Oak & WP handplanted by inmates under FTP W41-972 - work completed 5-18-04. 2006-Beech infected with BBD. Most of the sawtimber size beech is pulp quality. Regen is 15-20 feet tall and heavy to beech. Regen includes hemlock and white pine. Stand 21 H9 was combined with this stand because no difference could be seen on the ground or from the photo. Hardwood cords 99 = b cherry (4 BA), h maple (3 BA), y birch (1 BA). Also, hardowwd logs y birch (1 BA), softwood logs w pine (3 BA), softwood cords cedar (1 BA), fir (1 BA).</p> <p>2016 - This stand does not have as big a diameter as stand to the north, not a lot of logs, mostly poles. No entry this rotation, maybe next rotation look at and over-story removal.</p> <p>5/10/11 BB This stand was reviewed at the 2012 Compartment Review as part of a Unit Wide Beech Analysis Project. It was decided at the Review to harvest all the beech and not leave any residual besides the standing dead. The reason was to eradicate the seed source. After the harvest at some point it was agreed to treat the beech brush with a glyphosate chemical. This site has decent hemlock and white pine regen and will be a good place to enhance that in the future. Below is the original write-up for the beech bark stands.</p> <p>10/11/11 bb This stand is now on proposal 33-11 "Last Beech Standing", 155 acres, Residual BA = hemlock 24', mixed hardwood 35', white pine 1' and yellow birch 3', 63 total. The stand will be evaluated after harvest for herbicide needs. [5-15-12] Stand is now under contract TS# 41-033-11-01 Last Beech Standing.</p> <p>12/18/12 RFT - Sale is now closed/completed TCR dtd 12-17-12.</p>
22	4134 - Aspen, Spruce/Fir	Sapling Well	25.2	21	Immature	<p>OPIC - FMD: Stand is mostly aspen with white pine, hemlock, balsam and red maple regen. Hemlock and white pine was retained in the last harvest. Also, w birch cords (2 BA), white pine logs (1 BA).</p> <p>2016- Stand is well stocked and growing well. No activity at this time.</p>
23	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	17.9	81	141-170	<p>OPIC - FMD: Nice black spruce stand on wet sandy soil. Is in good shape and holding well. Consider cutting next entry.</p> <p>2016 - Stand looks healthy. The spruce looks good, could harvest or could leave. The trees are larger on the south side.</p>
24	429 - Mixed Upland Conifers	Sawtimber Medium	7.4	96	1-50	<p>OPIC - FMD: Stand cut in 1994 on sale 017-91-01. All merchantable aspen, white birch, mixed hardwood, balsam, and spruce where cut leaving hemlock and white pine. Understory is dense aspen, red maple, balsam, white pine and hemlock.</p>
25	4319 - Mixed Upland Forest	Poletimber Well	16.1	82	111-140	<p>OPIC - FMD: Stand is variable. White pine/Hemlock along river and M type along road. Aspen scattered throughout. Regen and saplings are mostly beech with red maple, white pine, balsam and hemlock. Also, fir cords (3 BA), basswood logs (3 BA). 2016 - This stand is along the Driggs river. With a 100 foot buffer there is not much of the stand that could be harvested. White birch is healthy.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	24.8	89	81-110	<p>OPIC - FMD: This is another transitional area, very similar to stand 20, with the major difference being that there is a larger maple component. The stand has very low productivity, but is still commercially viable. This stand was harvested in 1960, with red maple and hemlock regenerating the understory. The ground is not as well-drained as the surrounding hardwoods (Stands 13 & 19). SKC 7/06</p> <p>2016 - A mixed stand, lower than the hardwood stand to the north. There are a variety of sizes of hemlock. No activity.</p>
28	429 - Mixed Upland Conifers	Sawtimber Medium	60.7	89	141-170	<p>OPIC - FMD: Super canopy white pine represents a large portion of the basal area, with hemlock coming in a close second. The stand is very similar to stand 20, with the major difference being a larger white pine component. The understory has a lot of white pine, black spruce, and hemlock. Due to the large amount of advanced hemlock regeneration, wait until it is approximately 4 inches in DBH to harvest. The soil is variable, with sandy well-drained soils mixed with poorly drained soils. SKC 7/06</p> <p>2016 - Lots of hemlock. Over story of white pine with hemlock poles in the understory. Aspen is dying off.</p>
29	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	47.5	89	81-110	<p>OPIC - FMD: This is a spruce bog, the trees are mostly 1 to 3 sticks tall, and growing with moss, leather lead, and blue berries. The ground is poorly drained. Some of the trees are dying, maybe from budworm - or poor site conditions. Not enough volume for harvest. SKC 7/06.</p> <p>2016 - Stand is variably stocked, some open/non-stocked areas to well-stocked conifers. BA ranges from 60-140 where trees are present. If adjacent stands were cut this could be added, but not enough volume to harvest. Stand is healthy.</p>
30	6126 - Lowland Jack Pine	Poletimber Medium	86.0	36	1-50	<p>OPIC - FMD: This stand was harvested in 1981, since then a combination of black spruce and jack pine have regenerated the area, most are submerchantable and average less than 2 inches in diameter. However, they look healthy and 15-20 feet tall. The current basal area is from trees that were submerchantable at the time of harvest. The soil is low and poorly drained. Along with jack pine and black spruce, tamarack and white pine seedlings are present. There is not enough merchantable volume for harvest. SKC 7/06. 2016 - Stand continues to grow and looks good. Few of the trees from the previous cutting are left. No activity.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
31	6126 - Lowland Jack Pine	Sapling Poor	94.0	5	Immature	<p>OPIC - FMD: This jack pine & black spruce stand averages 7 cords/acre (4-10), with trees averaging 2 to 3 sticks. Some of the jack pine has been hit by budworm, approximately 20 square feet. The soil is poorly drained. Understory is brushy with blue berries and leather leaf, black spruce, and jack pine. From reviewing compartment 149, it discovered that stands 51 (S5) and 52 (W9) were prescribed, but never treated. With this additional acreage and volume this sale has more possibilities. However, it should be noted that the wood is small and volumes are variable. The roads are in for the most part, but will have to be frozen to access and haul timber. Acceptable regeneration would include black spruce as well as jack pine and tamarack. After the cut a regeneration count should be done in 5 years. Retention will be met with leaving 1 stick and unmerchantable trees. SKC 7/06.</p> <p>[3/12/08 JB] The inventory for stand 31, called for leaving one stick jack pine for retention however, upon further field review it was determined that due to operability of the wet site and contract enforcement issues a prescription for leaving small patches would be more effective. There are a total of 7 acres in two patches being left for retention. There will also be no cutting of hemlock, red pine, white pine or oak in any of the stands.</p> <p>[11-23-09] Stand is now under contract - TS 41-028-08-01 360 Jack Pine. Residual BA outside of retention area(s) is less than 3 sq.ft./acre.</p> <p>[7-19-11] Sale is now complete TCR dtd 7-18-2011. Schedule regen check.</p> <p>2016- Stand looks really good adequate regeneration. The residual trees are still growing - it consists of black spruce, jack pine, white pine, red pine and tamarack. The ba of those trees is 30. In the understory there is jack pine, black spruce, white pine, and tamarack. Regeneration counts came up at 1155, but trees are only 4 inches tall. No activity needed.</p>
32	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	5.3	76	51-80	<p>OPIC - FMD: High ground along the road is A3 about 25 years old but most of the stand is wetter ground along the river and is E4. Beaver are active in area. Trees have been chewed and cut down. Understory near river is mountain maple. Hardwood cords 99 = q aspen (5 BA), w birch (5 BA). Also, w spruce cords (5 BA). 2016 - Stand looks healthy. Due to proximity to creek no activity is feasible. Perhaps look at cutting when stand 21 is ready.</p>
33	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	52.6	89	81-110	<p>OPIC - FMD: This is another transitional area, very similar to stand 20, with the major difference being that there is a larger maple component. The stand has very low productivity, but is still commercially viable. This stand was harvested in 1960, with red maple and hemlock regenerating the understory. The ground is not as well-drained as the surrounding hardwoods (Stands 13 & 19). SKC 7/06</p> <p>2016 - Not a lot of change. No activity. This is a lot of small diameter trees and sub-merchantable, due to the low ground.</p>
34	6122 - Black Spruce	Poletimber Medium	18.8	74	81-110	<p>OPIC - FMD: This stand has not changed in volume since the last inspection. The major change is delineating the higher red pine ground on the northern edge of the stand into a separate stand. The ground is variable with sandy areas and bogs. The timber runs in veins, with tag alder and unmerchantable trees in-between. Most of the merchantable timber is on the northern end. No harvest is recommended at this time. SKC 7/06</p> <p>2016 - Split this stand from the northern portion. This area has very low production.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	42220 - Natural Jack Pine	Sapling Well	40.3	18	Immature	<p>OPIC - FMD: This stand was harvested in 1996 and trenched in 1997. The planted seedlings are scattered, however, natural regeneration of jack pine, red maple, and black spruce are taking over and looks good and well-stocked. Jack pine is 6-10 feet tall. There are occasional pockets of J4 and S4. The soil is mostly skanee cobbly fine sandy loam, with various drainages. SKC 7/06 SEEDED WINTER OF 1997. 1/16/01 FTP c41-559 closed, site is fully stocked from natural regeneration, 1431 ss/acre.</p> <p>2016- Stand looks good - Trees are over 20 feet tall and well-stocked. the lower ground has more spruce. There are ridges in the stand with more red and white pine on them. No activity.</p>
36	6122 - Black Spruce	Sapling Medium	9.3	53	1-50	<p>OPIC - FMD: This stand does have merchantable timber scattered throughout the area. However, it won't be ready for harvest for many years. A majority of the area is occupied by spruce regeneration - 6 - 10 feet tall. The understory is dominated by jack pine, black spruce, and tamarack regeneration. The soil is Grand Marais very fine sandy loam and is poorly drained. SKC 7/06.</p> <p>2016 - low - unproductive ground - no activity.</p>
37	42210 - Natural Red Pine	Sawtimber Well	15.3	76	111-140	<p>OPIC - FMD: This stand was harvested in 1996. Currently, the crowns are free to grown, and the regeneration is becoming established. In the understory there are red pine, white pine, black spruce, red maple, and white birch seedlings in various densities and heights 3 feet and less. There are a few oak seedlings 6 inches high. While some areas could be thinned, overall the stand is not ready for harvest. The southern edges of the stand are wetter and more bog like with blue berries and moss on the ground. For the most part the stand is on a well-drained hillside. SKC 7/06.</p> <p>2016 - Stand is mature and healthy.</p>
38	4112 - Maple, Beech, Cherry Association	Poletimber Well	16.6	72	81-110	<p>OPIC - FMD: Cut under TS #57-98 TCR dtd 12-08-02. See FTP # C41-972 - underplanting white pine & oak. [7-27-04 RFT] Oak & WP handplanted by inmates under FTP W41-972 - work completed 5-18-04. 2006-MMH poles are heavy to black cherry. Hemlock, white pine and balsam scattered throughout stand. Beech hit by BBD. Regen mostly beech and maple with balsam and white pine. Also, r maple logs (2 BA). Softwood logs 98 = w pine (4 BA), hemlock (4 BA).</p> <p>2016 - No change - stand is healthy.</p>
39	6122 - Black Spruce	Poletimber Medium	7.8	74	111-140	<p>OPIC - FMD: This stand has not changed in volume since the last inspection. The major change is delimiting the higher red pine ground on the northern edge of the stand into a separate stand. The ground is variable with sandy areas and bogs. The timber runs in veins, with tag alder and unmerchantable trees in-between. Most of the merchantable timber in on the northern end. No harvest is recommended at this time. SKC 7/06</p> <p>2016 - Small trees 2-3 sticks. There is a harvestable patch in the north next to the red pine stand.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	42290 - Natural Mixed Pine	Sawtimber Medium	6.2	69	111-140	<p>OPIC - FMD: This stand for the most part was not harvested with the adjacent stands in 1996. However, some of the aspen on the edges were removed. The soils are sandy and well-drained. The site is located on a small hill. The crowns are still open, and free to grow, so no harvest is recommended at this time. SKC 7/06</p> <p>2016 - this is an island of pine surround by spruce. There are a variety of sizes but not over stocked. Stand could wait until adjacent jack pine is cut or cut with stand 37.</p>
41	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.7	50	51-80	<p>OPIC - FMD: Stand along the road is M6 but most of the stand is B6 along the river. Beaver are active in area. Some trees have been chewed and some cut down. Also, r maple logs (3 BA), q aspen cords (3 BA), cedar cors (3 BA).</p> <p>2016 - No change. No activity due to proximity to Driggs river.</p>
42	4119 - Mixed Northern Hardwoods	Poletimber Well	31.4	60	111-140	<p>OPIC - FMD: This stand was part of a larger stand but was split into a new stand. This part is more evenly distributed as in a fully stocked stand. The southerly most 5 acres of this stand is more open with clumps of cherry and white pine but not large enough an area to separate a new stand. Softwood cords 98 = w pine (5 BA), w spruce (2 BA). Also, h maple cords (2 BA).</p> <p>2016- Stand looks healthy. Lots of small diameter.</p>
43	42200 - Natural White Pine	Poletimber Medium	4.5	30	111-140	<p>OPIC - FMD: Stand could be W4 with regen or W3 with poles. Stand is located west of county road 450 on land that was previously not inventoried. White pine is seeding from scattered individuals in the stand and from adjacent stands.</p>
44	4319 - Mixed Upland Forest	Poletimber Medium	6.3	30	81-110	<p>OPIC - FMD: The stand lies west of the county road was previously not inventoried. This stand is mostly poor quality hardwood poles with a component of big-tooth aspen, hemlock and white pine. Beech is infected with beech bark disease. Regen is beech and red maple with some hemlock, white pine and balsam. Recommend selection-cut this stand to 60-70 square feet of BA retaining the hemlock and white pine. Trees should be marked to cut. Leave a 100 foot buffer along Drigg's Lake--trees can be marked and cut within the buffer. When sale is complete, underplant with OAK. Timber volume also includes W pine cords (2 BA), w birch cords (2 BA)</p> <p>[06/07/09] Stand is now under contract TS # 41-049-08-01 Driggs Lake Hardwood. See FTP W41-1399 (underplant oak.) Residual BA: red maple = 15; y. birch = 3; beech = 13; paper birch = 3; w.pine = 17; hemlock = 5; total = 56 sq.ft/acre.</p> <p>[07/15/10] Sale is now closed/completed.</p> <p>2016 - Stand is starting to fill in. Could not tell if any oak was planted. no activity. Stand is healthy.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	6126 - Lowland Jack Pine	Poletimber Medium	2.2	60	51-80	<p>OPIC - FMD: This jack pine & black spruce stand averages 7 cords/acre (4-10), with trees averaging 2 to 3 sticks. Some of the jack pine has been hit by budworm, approximately 20 square feet. The soil is poorly drained. Understory is brushy with blue berries and leather leaf, black spruce, and jack pine. From reviewing compartment 149, it discovered that stands 51 (S5) and 52 (W9) were prescribed, but never treated. With this additional acreage and volume this sale has more possibilities. However, it should be noted that the wood is small and volumes are variable. The roads are in for the most part, but will have to be frozen to access and haul timber. Acceptable regeneration would include black spruce as well as jack pine. SKC 7/06.</p> <p>[3/17/08]b] The current field review found a 1 acre patch of immature white pine to the north and a 1 acre patch of immature jack pine to the south. This stand is not ready for harvesting and should be included for any timber cutting in the next two rotations or may be picked up with adjacent compartment when the stand is ready for harvest. Cut codes are being dropped for this entry.</p> <p>2016- No change.</p>
46	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	10.1	74	51-80	<p>OPIC - FMD: This stand has not changed in volume since the last inspection. The major change is delineating the higher red pine ground on the northern edge of the stand into a separate stand. The ground is variable with sandy areas and bogs. The timber runs in veins, with tag alder and unmerchantable trees in-between. Most of the merchantable timber in on the northern end. No harvest is recommended at this time. SKC 7/06</p> <p>2016 - No change and no activity.</p>
48	4115 - Y.Birch, Hemlock NH	Poletimber Medium	4.8	65	81-110	<p>OPIC - FMD: This stand lies east of the county road and was part of the Drigg's Lake Hardwood sale #067-98-01 but was not cut because the purchaser declared bankruptcy. This stand is mostly poor quality hardwood poles with a component of big-tooth aspen, hemlock and white pine. Beech is infected with beech bark disease. Regen is beech and red maple with some hemlock, white pine and balsam. Recommend selection-cut this stand to 60-70 square feet of BA retaining the hemlock and white pine. Trees should be marked to cut. When sale is complete, underplant with OAK. Timber volume also includes W pine cords (2 BA), w birch cords (2 BA)</p> <p>[06/07/09] Stand is now under contract TS # 41-049-08-01 Driggs Lake Hardwood. See FTP W41-1399 (underplant oak.) Residual BA: red maple = 24; y. birch = 2; beech = 12; w.pine = 4; hemlock = 24; total = 66 sq.ft/acre.</p> <p>[07/15/10] Sale is now closed/completed TCR dtd 07/14/10.</p> <p>2016 - Regeneration coming good - heavy to beech, but other species coming in. Some sub-merchantable beech has scale. No activity.</p>
54	4199 - Other Mixed Upland Deciduous	Poletimber Medium	0.5	82	81-110	<p>Small stand of hardwood that cannot be harvested due to stream buffer.</p>
407	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	5.5	30	1-50	<p>OPIC - FMD: Opening has white pine and aspen encroching from edges. Also black and pin cherry are scattered in the stand.</p> <p>2016 - Stand is open, but starting to fill in, not a good opening. White pine is seeding in.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
410	4319 - Mixed Upland Forest	Poletimber Poor	5.6	20	51-80	OPIC - FMD: Opening with some white pine seeding in from edges. Scattered pin cherry shrubs. 2016 - Stand continues to seed in. No activity.
411	429 - Mixed Upland Conifers	Poletimber Poor	7.3	20	1-50	OPIC - FMD: Opening with white pine seeding in from edges. 2016 - Open area filling in. No activity.
416	4319 - Mixed Upland Forest	Poletimber Poor	7.0	20	1-50	OPIC - FMD: Stand is open with clumps of black cherry. 2016 - Stand continues to fill in.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	6225 - Bog	1.8	No	OPIC - FMD: Small wet opening but due to recent drought has no standing water at this time. Deer tracks observed. Area is bordered with blue berries and leather leaf. 2016 - no changes.
3	6225 - Bog	0.3	No	OPIC - FMD: Stand is part of larger V0 to the east. Dry now. Very similar to stand 2. 2016 - no change.
7	6225 - Bog	7.1	No	OPIC - FMD: Dry lake bed. Grasses and cattails. A blue or purple iris is present. ATV trails run across stand. The N1/4 corner of section 22 lies on the north side of an island in this stand. 2016 - No change.
10	500 - Water	2.7	No	OPIC - FMD: GREENWAY LAKE
16	500 - Water	2.9	No	OPIC - FMD: PERCH LAKE
26	6224 - Treed Bog	66.3	No	Marsh with scattered trees.
47	622 - Lowland Shrub	83.9	No	OPIC - FMD: This is a marsh with scattered 1 & 2 stick jack pine. Tamarack, black spruce, and jack pine seedlings are moving into the area. There are scattered patches of merchantable trees, however, access will be difficult. The ground is covered with grasses, sedges, and blue berries. The ground is low and mucky. SKC 7/06 2016 - no change.
49	500 - Water	4.4	No	OPIC - FMD: Drigg's River in section 28.
50	500 - Water	0.3	No	OPIC - FMD: Drigg's River in section 34 adjacent to and SE of stand 25.
51	500 - Water	0.7	No	OPIC - FMD: Drigg's River in section 34 adjacent to stand 32.
52	500 - Water	2.4	No	OPIC - FMD: Drigg's River in section 34 adjacent to stand 41.
53	500 - Water	1.3	No	OPIC - FMD: Drigg's River in section 34 adjacent to and SW of stand 25.
55	122 - Road/Parking Lot	0.8	No	OPIC - FMD: Right-of-Way for County Road 450
418	31022 - Warm Season Grass	1.0	No	OPIC - FMD: Open with a couple of pin cherry shrubs. 2016 - No change.