



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41141

Entry Year 2024

Acreage: 872

County Alger

Management Area: Danaher Kingston Outwash

Stand Examiner: Bob Burnham

Legal Description:

T48N R15W Sections 22 and 27

Identified Planning Goals:

This compartment is located on the southern edge of the Kingston Plains. Historic Management in this area was designated for the management of wildlife production by an agreement written in 1954 between (now) Forest Resources Division and Wildlife divisions.

Soil and topography:

Rolling terrain and generally dry, sandy soils. Several small lakes and ponds are located in this compartment.

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

There are numerous private parcels in the vicinity along the Adams Truck Trail. The area is popular for a variety of recreational pursuits, including hunting, hiking, berry picking, etc.

Unique Natural Features:

The Kingston Plains feature large expanses of open grassland.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment contains several unnamed waterbodies including Clyde Lake. 100' plus 5' per 1% increase in slope; buffers are recommended for the unnamed waterbodies and Clyde Lake to protect shoreline and shoreland areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is located in the Grand Marias Sandy End Moraine Outwash sub-subsection. The average growing season is approximately 120 days. The extreme winter temperature generally reaches approximately -35o F. Snowfall in this compartment averages 200 inches or more annually. The compartment falls within the Danaher Kingston Outwash Management Area which highlights the following Featured Species: Eastern bluebird, Kirtland's warbler, red crossbill, sharp-tailed grouse and spruce grouse. General Land Office (GLO) Surveyor notes indicate that most of this compartment was dominated by upland sandy soils. Throughout the compartment, the 1851 forest contained extensive amounts of white pine, hemlock, beech, balsam fir, red maple, yellow birch, and spruce. Lowlands associated with the few kettle lakes and drainages held tamarack, spruce and cedar with an understory of maple, mountain ash, hemlock, balsam fir, and beech. Beaver ponding probably occurred along the drainages, but fire and windthrow were likely the primary forms of natural disturbance. Logging and extensive slash fires have substantially altered the landscape in this area. Most of the organic material and vegetation in the eastern portion of the compartment were destroyed. In 1954, Forestry and Game management divisions entered into a plan for experimental reforestation projects on the Kingston Plains. That plan called for a wood production area, a game production area, and a control. Within the control, vistas displaying the stump fields were maintained for scenic and historic purposes. The majority of the State land within this compartment lies within the game production portion of the plan. The primary wildlife habitat objective in this compartment is to maintain the open character of the landscape. Merlin (Michigan threatened), and sharp-tailed grouse (Michigan special concern) have been recorded in compartment. Other wildlife species of interest may include kestrel, Canada geese, short-tailed shrew, and short-tailed weasel.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. No known active mineral extraction sites occur in the area. There may be some potential for sand within the compartment, but development potential appears limited. No current mineral leasing activity exists in the area.

Vehicle Access:

Access from the Adams Truck Trail (just north of the compartment boundary) is excellent.

Survey Needs:

Corners will be needed to establish private boundary in Section 22.

Recreational Facilities and Opportunities:

The Fox River Pathway runs through this compartment from northwest to southeast. Hunting, fishing, hiking, and snowmobiling are some recreational opportunities within this compartment.

Fire Protection:

Access for fire protection is excellent.

Additional Compartment Information:

The following reports from the Inventory are attached:

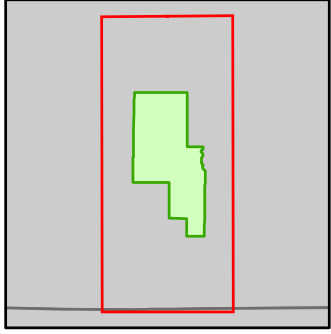
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

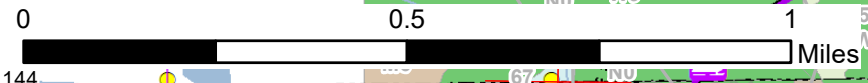
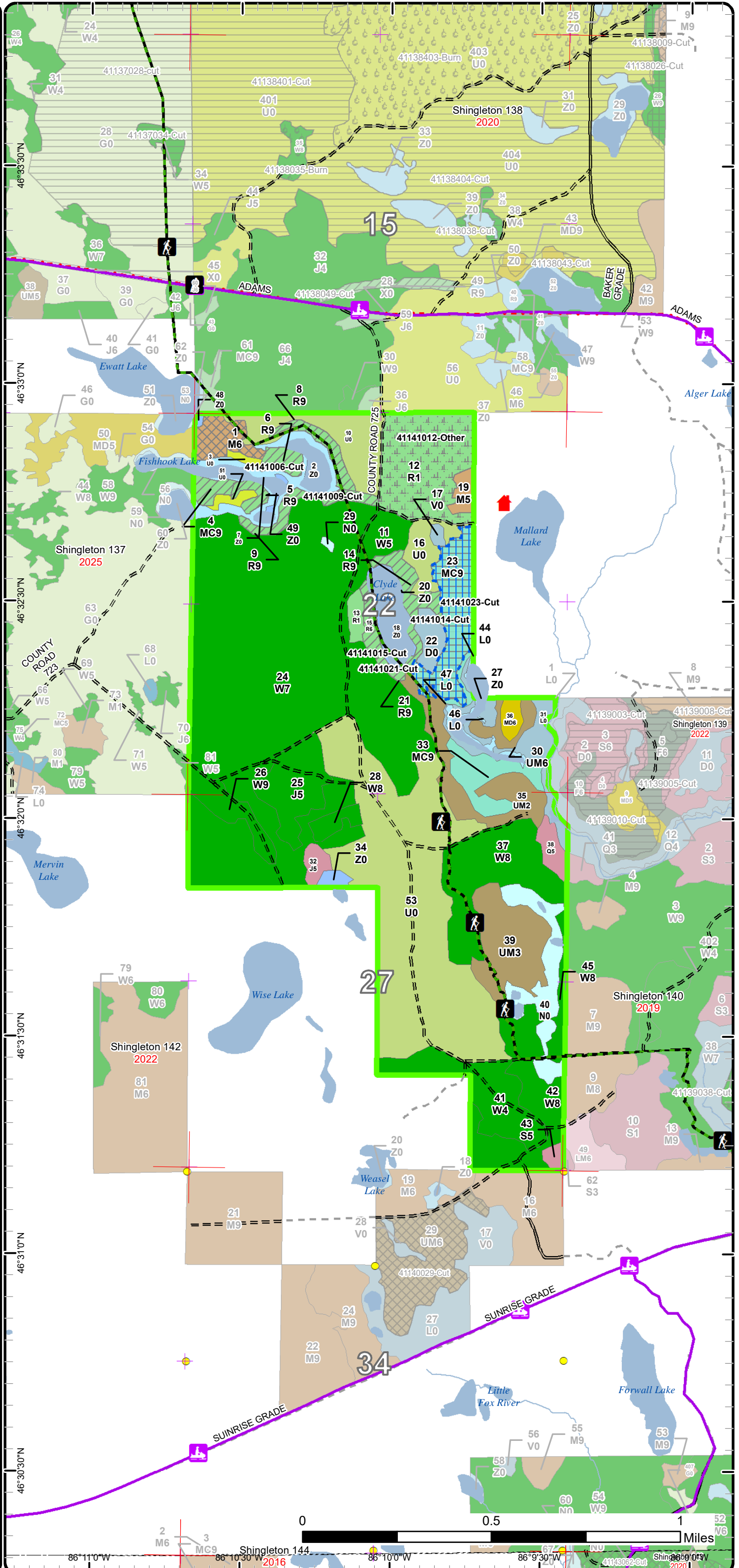
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 141
 T48N, R15W, Sec. 22, 27
 County: Alger
 Unit: Shingleton
 Mgmt Area: Danaher Kingston
 Outwash
 YOE: 2024
 Acres: 871.6 GIS Calculated
 Examiner: Bob Burnham
 Map Revised: 8/17/2022
 Map Phase: Web Post



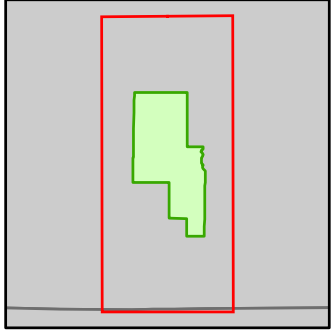
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 621 - Floating Aquatic
- 622 - Lowland Shrub
- 623 - Emergent Wetland



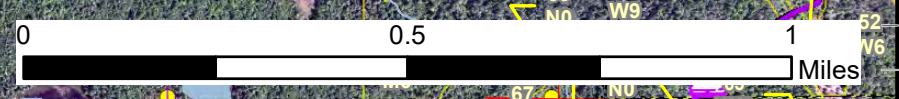
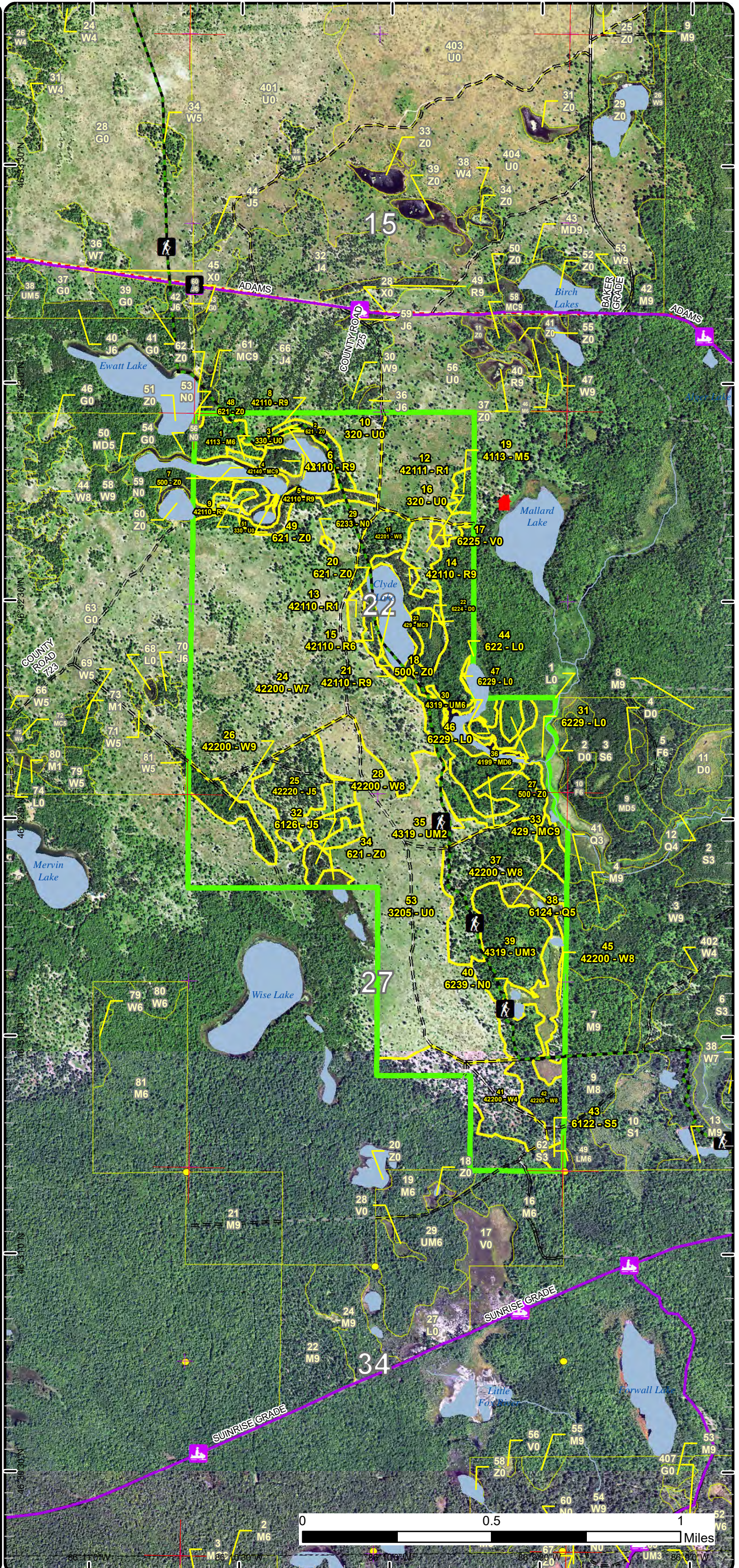
86°11'0"W 86°10'30"W 86°10'0"W 86°9'30"W 86°9'0"W
 Shingleton 144 2016 Shingleton 140 2019 Shingleton 137 2025 Shingleton 138 2020 Shingleton 139 2022 Shingleton 142 2022

Stand Boundary Map

Compartment: 141
 T48N, R15W, Sec. 22, 27
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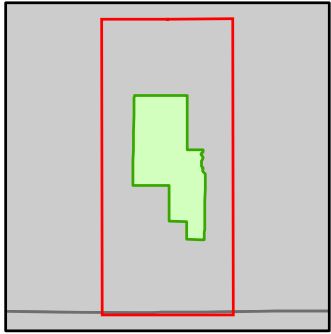


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
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- County - Gravel Road
- Private - Paved Road
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- Hiking Trails
- Snowmobile Trails
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Cabin
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
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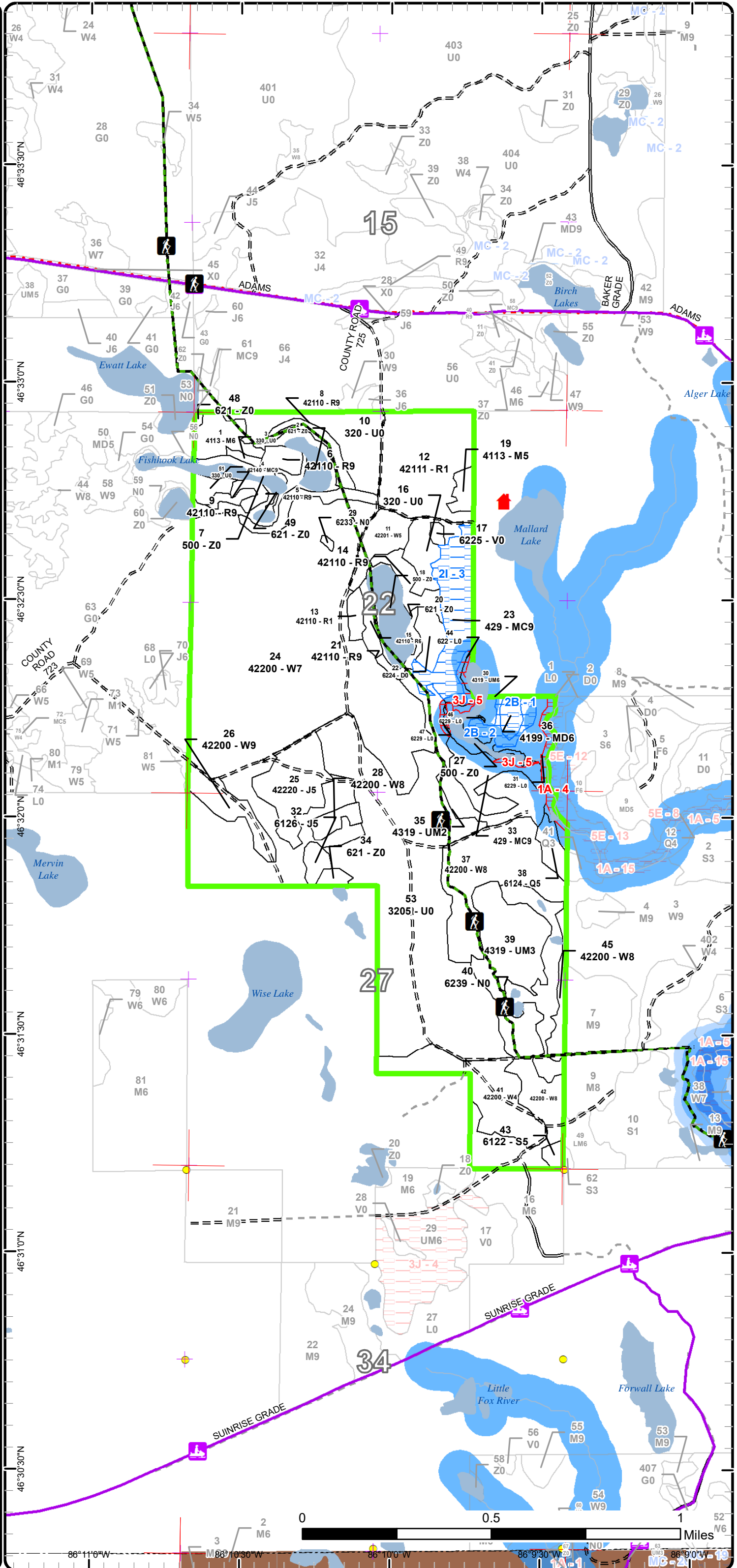


Special Conservation Areas

Compartment: 141
 T48N, R15W, Sec. 22, 27
 County: Alger
 Unit: Shingleton
 Mgmt Area: Danaher Kingston
 Outwash
 YOE: 2024
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 Examiner: Bob Burnham
 Map Revised: 8/17/2022
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- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Cabin
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- Unavailable
- 1A: Federal/State/Local Law
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Wildlife Management Areas





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
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Jack Pine	0	0	0	0	4	21	0	0	0	0	0	0	0	0	0	0	0	0	25
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Shrub	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Spruce/Fir	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Marsh	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Mixed Upland Deciduous	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
Northern Hardwood	0	0	0	0	4	0	0	9	0	0	0	0	0	0	0	0	0	0	13
Planted Mixed Pines	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
Red Pine	0	3	41	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	78
Treed Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Upland Conifers	0	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	39
Upland Mixed Forest	0	0	0	50	0	0	0	0	5	0	0	0	0	0	0	0	0	0	55
Upland Shrub	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169
Water	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
White Pine	0	0	0	0	0	10	27	38	290	11	6	0	0	0	0	0	0	0	382
Total	262	3	41	50	8	31	38	85	295	11	45	0	0	0	0	0	0	0	869



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 141
Total Compartment Acres: 872

Commercial Harvest - 48
Harvests with Site Condition - 25
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
Northern Hardwood	0	9	0	0	0	0	0	0	0	9
Planted Mixed Pines	0	0	0	0	4	0	0	0	0	4
Red Pine	0	0	0	0	34	0	0	0	0	34
Upland Conifers	0	0	0	25	0	0	0	0	0	25
Total	0	9	0	25	0	38	0	0	0	72

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	72	0	0	0	0	0	41	0	0	113
Next Step	0	0	0	0	0	34	0	0	0	34
Total	72	0	0	0	0	34	41	0	0	147



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

1	41141001-Cut	9.4	4113 - R.Maple, Conifer	Poletimber Well	60	81-110	Harvest	Group Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Spec all species for removal except hemlock, red maple and white pine. Mark additional maple and pine for access if needed. Utilize pathway protection specs with timber sale.</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> A mix of the current species on-site.</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 /2024</p>											
4	41141004-Cut	3.7	42140 - Planted Mixed Pine	Sawtimber Well	68	81-110	Harvest	Low Thinning	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Thin stand for access. Stand will be transitioned away from planation management into a naturally managed stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2024</p>											
5	41141005-Cut	3.1	42110 - Planted Red Pine	Sawtimber Well	68	111- 140	Harvest	Systematic Thinning	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand for access. Stand will be transitioned away from planation management into a naturally managed stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2024</p>											
6	41141006-Cut	4.3	42110 - Planted Red Pine	Sawtimber Well	68	141- 170	Harvest	Systematic Thinning	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand for access. Stand will be transitioned away from planation management into a naturally managed stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2024</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
8 41141008-Cut	5.4	42110 - Planted Red Pine	Sawtimber Well	68	111-140	Harvest	Systematic Thinning	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand for access. Stand will be transitioned away from planation management into a naturally managed stand. Utilize pathway protection specs with timber sale.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2024</p>										
9 41141009-Cut	6.9	42110 - Planted Red Pine	Sawtimber Well	68	111-140	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Stand was row thinned last entry, thin from above as well as with the intent to transition away from planation management into a naturally managed stand.Utilize pathway protection specs with timber sale.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2024</p>										
12 41141012-Other	40.6	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	10	Immature	Other	Other	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Remove competition by hand with saws.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u> If TMS looks at site and determines this treatment is not needed it will be dropped unilaterally.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/14/2022</p>										
14 41141014-Cut	7.0	42110 - Planted Red Pine	Sawtimber Well	68	111-140	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Stand was row thinned last entry, thin from above as well as with the intent to transition away from planation management into a naturally managed stand. Utilize pathway protection specs with timber sale.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2024</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
15 41141015-Cut	4.2	42110 - Planted Red Pine	Poletimber Well	68	111-140	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Stand was row thinned last entry, thin from above as well as with the intent to transition away from plantation management into a naturally managed stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2024</p>										
21 41141021-Cut	3.5	42110 - Planted Red Pine	Sawtimber Well	68	141-170	Harvest	Systematic Thinning	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> This stand for access and to move management away from plantation to more of a natural stand. There is a small outflow from Clyde Lake that may need protecting.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2024</p>										
23 41141023-Cut	24.7	429 - Mixed Upland Conifers	Sawtimber Well	95	81-110	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Two-Aged	No
<p><u>Prescription</u> Leave all hemlock and mark healthy white pine to leave. Target should be around 20 BA. Additional retention will be required along Mallard Lake and outflow of Clyde Lake. Utilize pathway protection specs with timber sale.</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> A mix of the current species.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Total Treatment 112.8
Acreage Proposed:

Report 4 – Site Conditions

Shingleton Mgt. Unit
Bob Burnham : Examiner

Compartment: 141
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2B	2I	1A	3J
1	1	0	0	Bog				
25	25	0	0	Jack Pine				
3	3	0	0	Low-Density Trees				
5	5	0	0	Lowland Conifers				
18	12	0	7	Lowland Shrub			5	2
2	2	0	0	Lowland Spruce/Fir				
20	20	0	0	Marsh				
4	0	4	0	Mixed Upland Deciduous	4			
13	13	0	0	Northern Hardwood				
4	4	0	0	Planted Mixed Pines				
78	78	0	0	Red Pine				
6	6	0	0	Treed Bog				
40	13	25	2	Upland Conifers		25	0	2
55	50	5	0	Upland Mixed Forest	5			
169	169	0	0	Upland Shrub				
45	45	0	0	Water				0
382	382	0	0	White Pine				
872	829	34	9	Total Forested Acres	9	25	5	4
	95%	4%	1%	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	2B: Unknown if access through adjacent landowner(s) is possible	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Bob Burnham : Examiner

Compartment: 141
Year of Entry: 2024

2	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	2I: Survey needed	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	1A: Federal/State/Local Law	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Fox River 100' zone							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High priority trout stream waters buffer.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
1	4113 - R.Maple, Conifer	Poletimber Well	9.4	60	81-110	N/A	Paper birch is falling out of stand and losing vigor. Red maple is not yet mature. Balsam fir is also falling apart.																																																			
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2	621 - Floating Aquatic	Nonstocked	3.2		Unspecified	No																																																				
3	330 - Low-Density Trees	Nonstocked	1.3		Unspecified	No	Stand is a hillside with a few trees sloping to the lake. Some undermining occurring at lake shore from beaver.																																																			
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4	42140 - Planted Mixed Pine	Sawtimber Well	3.7	68	81-110	N/A	This is a planted stand that is taking on natural characteristics and even a 2 aged appearance.																																																			
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6	42110 - Planted Red Pine	Sawtimber Well	4.3	68	141-170	N/A	This is a red pine stand on the northwest side of Fish Hook Lake.																																																			
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7	500 - Water	Nonstocked	19.4		Unspecified	No	Fish Hook Lake																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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9	42110 - Planted Red Pine	Sawtimber Well	6.9	68	111-140	N/A	The previous under planting was a complete failure. Stand should be thinned again. Previous Decade Comments (2014):Inventory notes from last entry year indicated that this stand was thinned under TS # 039-04 around 2007. Past comments also stated that the area was trenched and red pine seedlings were underplanted as directed by FTP # C41-1210. 1st year regeneration check in 2010 stated 71.7% survival, but 1/3 of them were yellowing. Needs 3 year check in 2012.																																
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10	320 - Upland Shrub	Nonstocked	23.0		Unspecified	No	Old opening filling in right at the 25% canopy threshold.																				
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11	42201 - Natural White Pine, Mixed Deciduous	Poletimber Medium	10.1	45	81-110	N/A	Open grown stand with several different ages.																																									
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12	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	40.6	10	Immature	N/A	This stand was never site prepped correctly. Re-planting now would be a waste of dollars, stand could benefit from a non-commercial TSI however. Old Notes: Regeneration check after 1 year of planting. Replanted stand 12 and planted stand 13 for the first time at a cost of 4738.08. Regen check in 2014 Regen survey fall of 2015 = 542 T/A. Replanting needed.																								
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13	42110 - Planted Red Pine	Sapling Poor	3.4	9	1-50	N/A	Passed 3rd year regen check in fall 2018.																																															
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14	42110 - Planted Red Pine	Sawtimber Well	7.0	68	111-140	N/A	Old Notes: This is a red pine stand of mostly log - pole trees on the north side of Clyde Lake. This stand was under contract TS# 41-039-04-01 around 2006. The stand was thinned to around 120 sq. ft. of basal area per acre. FTP# C41-1209 addressed hand planted of red pine in the areas where illegal ATV use is creating erosion problems.																																															
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15	42110 - Planted Red Pine	Poletimber Well	4.2	68	111-140	N/A	Old Notes; The is a red pine stand of mostly pole-sized trees on the west side of Clyde Lake. This stand was under contract TS # 41-039-04-01 around 2006. The stand was thinned down to around 120 BA.																																															
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17	6225 - Bog	Nonstocked	1.3		Unspecified	No																																																
18	500 - Water	Nonstocked	7.5		Unspecified	No	Clyde Lake																																															
19	4113 - R.Maple, Conifer	Poletimber Medium	3.9	35	1-50	N/A	This an open grown stand with an older age class of white pine above red maple.																																															
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20	621 - Floating Aquatic	Nonstocked	5.8		Unspecified	No																																																



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21	42110 - Planted Red Pine	Sawtimber Well	3.5	68	141-170	N/A	This is a narrow planted red pine stand on the east side of Clyde Lake.																																																															
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22	6224 - Treed Bog	Nonstocked	6.2		Unspecified	No																																																																
23	429 - Mixed Upland Conifers	Sawtimber Well	26.4	95	81-110	N/A	This is a 2 aged stand. Paper birch and fir are falling out. There is an enormous beaver dam at the south end of stand 22, the Fox River Pathway crosses at this location and runs through the stand.																																																															
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25	42220 - Natural Jack Pine	Poletimber Medium	21.0	40	51-80	N/A	This is mainly natural jack pine with a small white pine component that is reclaiming previous open ground.																																																															
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28	42200 - Natural White Pine	Sawtimber Medium	4.4	78	51-80	N/A	Semi-open area that is filling in with conifers and deciduous trees.																																																												
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29	6233 - Wet Meadow	Nonstocked	0.5		Unspecified	No																																																													
30	4319 - Mixed Upland Forest	Poletimber Well	5.4	70	81-110	N/A																																																													
31	6229 - Mixed lowland shrub	Nonstocked	11.3		Unspecified	No																																																													
32	6126 - Lowland Jack Pine	Poletimber Medium	3.6	35	51-80	N/A	This stand flooded in the recent past and does have some mortality.																																																												
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33	429 - Mixed Upland Conifers	Sawtimber Well	13.4	96	81-110	N/A	This stand was partially cut in the mid 1990'S under the TS # 049-91-01. There is ridge running through stand with some lower ground on north.																																																												
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34	621 - Floating Aquatic	Nonstocked	2.2		Unspecified	No																																																													
35	4319 - Mixed Upland Forest	Sapling Medium	21.9	22	51-80	N/A	Stocking is variable, lots of pine cherry. OLD Comments; This area was partially cut in the 1990's under the contract TS# 049-91-01. Scattered log-sized white pine and a variety of smaller trees are present. A wildfire occurred in this area as a result of a firestrike around 2009. Suppression efforts have left visible signs such as equipment trails, pushed down plant species, and trenches. The actual burn area was probably less than an acre.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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36 4199 - Other Mixed Upland Deciduous Poletimber Well 3.5 56 81-110 N/A

37 42200 - Natural White Pine Sawtimber Medium 37.9 65 51-80 N/A

This is a semi-open stand with red and white pine and other upland tree species present. There is a very steep ridge on the northeast side.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	60	Log/Pole/XLog	16	65	White Pine	Low	Variable	Sapling
Beech	5	Pole	8		Red Maple	Medium	Variable	Sapling
Red Pine	15	Log/Pole/XLog	16		Paper Birch	Low	Variable	Sapling
Red Maple	5	Pole	7		White Spruce	Low	< 5 feet	Sapling
Paper Birch	5	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Balsam Fir	5	Pole	7					
Jack Pine	5	Pole	8					

38 6124 - Lowland Spruce-Fir Poletimber Medium 5.2 55 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	15	Pole	7	
Red Maple	10	Sapling/Pole	4	
Paper Birch	10	Sapling/Pole	4	
White Pine	15	Log	16	
Balsam Fir	20	Pole/Sapling	5	
Black Spruce	30	Pole/Sapling	6	55

39 4319 - Mixed Upland Forest Sapling Well 28.0 22 1-50 N/A

This stand was seed tree harvested under the contract TS# 41-001-05-01, Adam's Trail Mix around 2005.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	13	XLog/Log	20	96	Pin Cherry	High	10 - 20 feet	Tall Shrub
Hemlock	20	XLog/Log	18					
Red Maple	42	Sapling	2	22				
White Spruce	5	Sapling	2					
Balsam Fir	10	Sapling	2					
Hemlock	5	Sapling	2					
White Pine	5	Sapling	2					

40 6239 - Mixed Emergent Wetland Nonstocked 19.7 Unspecified No

41 42200 - Natural White Pine Poletimber Poor 26.8 50 1-50 N/A

This is a semi-open area that is being filled in by various upland tree species.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling/Pole	4		Pin Cherry	High	Variable	Tall Shrub
Red Pine	10	Log/Pole	10					
White Spruce	20	Pole	6					
White Pine	60	Pole/Sap/Log	8	50				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
42	42200 - Natural White Pine	Sawtimber Medium	31.9	78	1-50	N/A	This stand was harvested around 2005 under TS # 001-05-01, Adams Trail Mix. White and red pine, hemlock, cedar, and some yellow birch were retained from the harvest and now dominate the canopy.																																																		
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43	6122 - Black Spruce	Poletimber Medium	2.1	50	51-80	N/A																																																			
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44	622 - Lowland Shrub	Nonstocked	0.7	0	Unspecified	No																																																			
45	42200 - Natural White Pine	Sawtimber Medium	6.0	90	1-50	N/A																																																			
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46	6229 - Mixed lowland shrub	Nonstocked	3.1		Unspecified	No																																																			
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48	621 - Floating Aquatic	Nonstocked	0.5	0	Unspecified	No	This is a semi-open stand that is filling in with upland tree species.																																																		
49	621 - Floating Aquatic	Nonstocked	1.6		Unspecified	No																																																			
51	330 - Low-Density Trees	Nonstocked	2.0		Unspecified	No																																																			
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