



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41045

Entry Year 2022

Acreage: 3,323

County Schoolcraft

Management Area: Seney Manistique Swamp

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**Revision Date:** 2020-08-12

**Stand Examiner:** Tori Irving

**Legal Description:**

T42N R16W Sections 4,5,8,9,16 & 21

**Identified Planning Goals:**

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

**Soil and topography:**

The soils in this compartment are predominantly peat soils associated with the large marsh complexes with scattered sand ridges mixed throughout. The topography is rolling.

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

The compartment is almost entirely State owned. There are a few private parcels on the north which have hunting camps. A 40 acre parcel in section 5 was acquired through the Forest legacy Program. The Rainey Wildlife Viewing area is located in the southeast corner of the compartment.

**Unique Natural Features:**

Merlin (*Falco columborius*, state threatened) and bald eagle (*Haliaeetus leucocephalus*, state threatened) are known to nest nearby and there is potential for these raptors to occur within this compartment. There is also potential for nesting northern goshawks (*Accipiter gentilis*, state special concern) to occur throughout this compartment in stands of red pine and white pine. Wood turtle (*Clemmys insculpta*, state special concern) could occur in and along Smith Creek.

**Archeological, Historical, and Cultural Features:**

None known.

**Special Management Designations or Considerations:**

The Rainey Wildlife Area is within Section 21 and is a designated SCA.

**Watershed and Fisheries Considerations:**

Smith Creek is classified SQWW. There is no need to protect Smith Creek from encroachment by beaver, but protection from increased sand bedload is still a high priority.

**Wildlife Habitat Considerations:**

Compartment 45 lies within south west Schoolcraft county in the Seney Sand Lake Plain ecological subsubsection and is part of the Seney-Manistique Swamp Management area with beaver, moose, sharp-tailed grouse, snowshoe hare, and white-tailed deer as featured species. The growing season in this area is generally less than 100 days. The winter extreme low temperature is -46 degrees F and the average annual snowfall is approximately 100 inches.

Pre-settlement vegetation included marshes and swamps on the extensive lowlands and jack pine, red pine, and big-toothed aspen on the uplands. Wildfire was the prominent natural disturbance for this area with windthrow and beaver ponding as other factors. Much of this compartment was clear-cut in past cycles resulting in expansive open land.

Wildlife habitat objectives for this compartment include maintaining semi open-land characteristics and encouraging early successional forest species. Other wildlife priorities include the creation of dense understory's with retention of woody debris in jack pine and lowland types and retaining soft and hard mast producing species in harvested stands. Kirtland's warbler(s) have been documented several miles north of this compartment. Other wildlife species of interest include gray wolf, spruce grouse, fisher, mink, bald eagles, merlin and various waterfowl species.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is between 10 and 50 feet of glacial drift. The Ordovician Queenston and Silurian Manitoulin, Cabothead and Burnt Bluff subcrop below the glacial drift. The Burnt Bluff is used for stone. The nearest gravel pit is 3 miles to the northeast. There is limited gravel potential on

State lands.

**Vehicle Access:**

There is good access to the Rainey Wildlife Area off M-94 via Dawson Road and Wawaushnosh drive. The remainder of the compartment however has poor access which is from the north and very long. Due to private gates only the northern most portion of the compartment can be driven. The eastern side was closed after a large Timbersale 10 years ago and has healed very nicely. The western side is used mostly by the private landowners on 4 wheelers.

**Survey Needs:**

None needed.

**Recreational Facilities and Opportunities:**

There is a viewing platform at the Rainey Wildlife Area, there is a short pathway leading from the parking area to the platform. Due to its remote location the compartment offers some remote hunting opportunities.

**Fire Protection:**

Fire response to the bulk of the compartment is from the north and quite long, the roads within the compartment are very grown over so they would need to be opened up to get equipment in. There are very few mature stands within the compartment that would pose an increased fire hazard.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

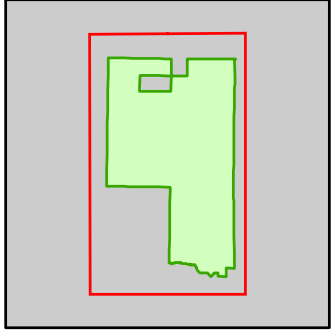
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

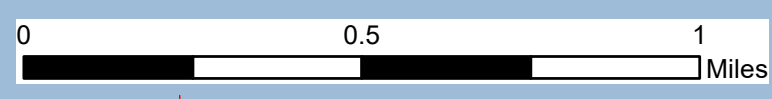
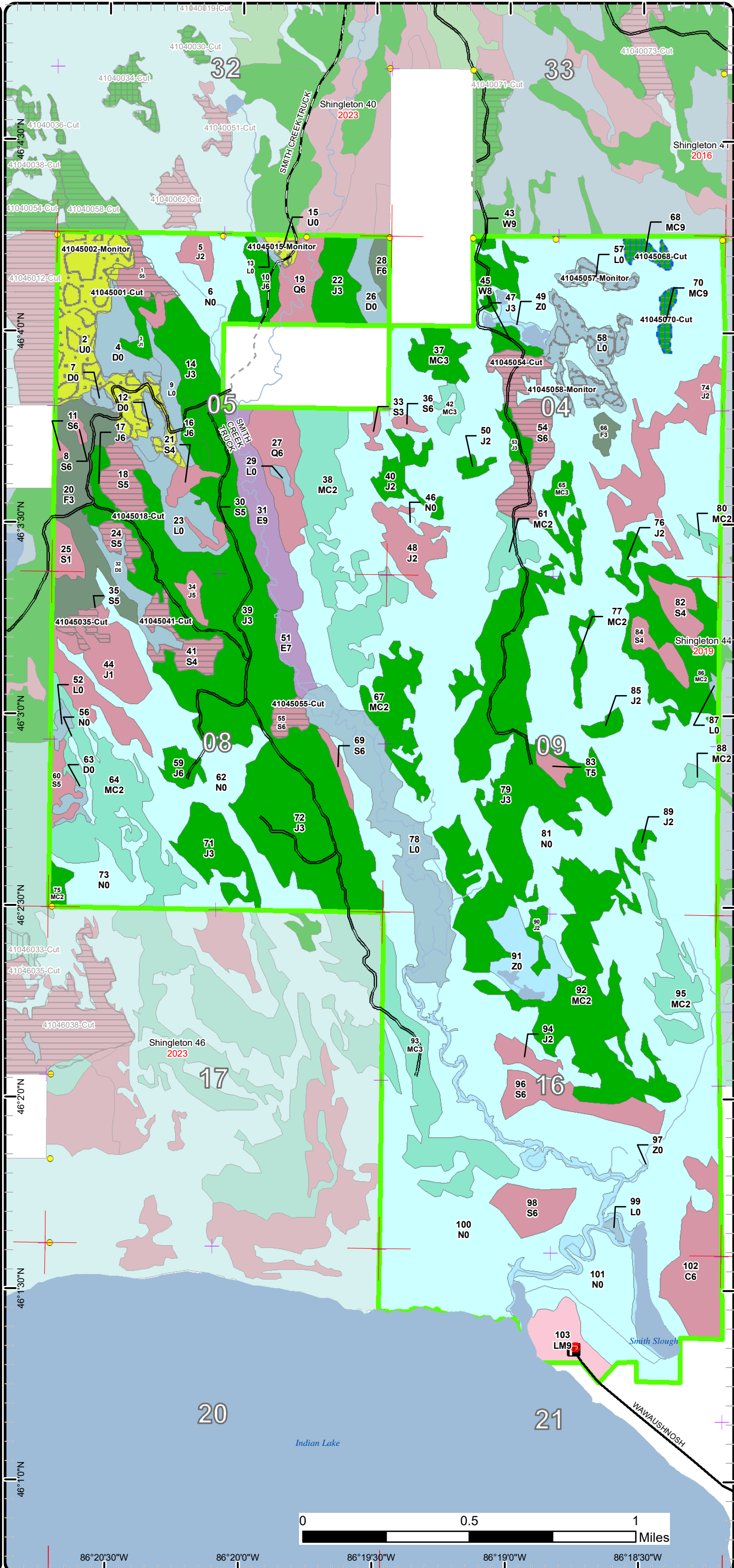
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 45  
 T42N, R16W, Sec. 4, 5, 8, 9, 16, 21  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Seney Manistique Swamp  
 YOE: 2022  
 Acres: 3,323 GIS Calculated  
 Examiner: Tori Irving  
 Map Revised: 8/25/2020  
 Map Phase: Web Post



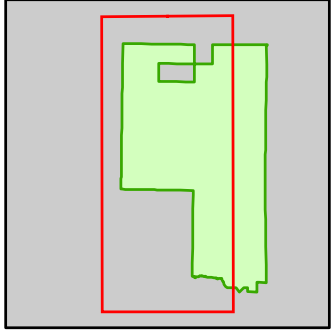
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- P Parking Lot
- Sign
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Regeneration Survey
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



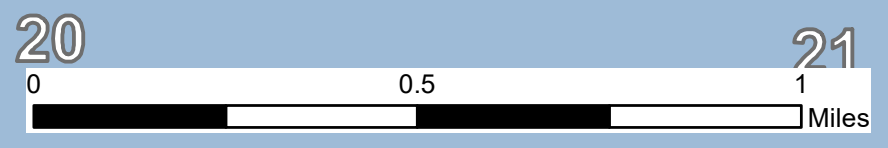
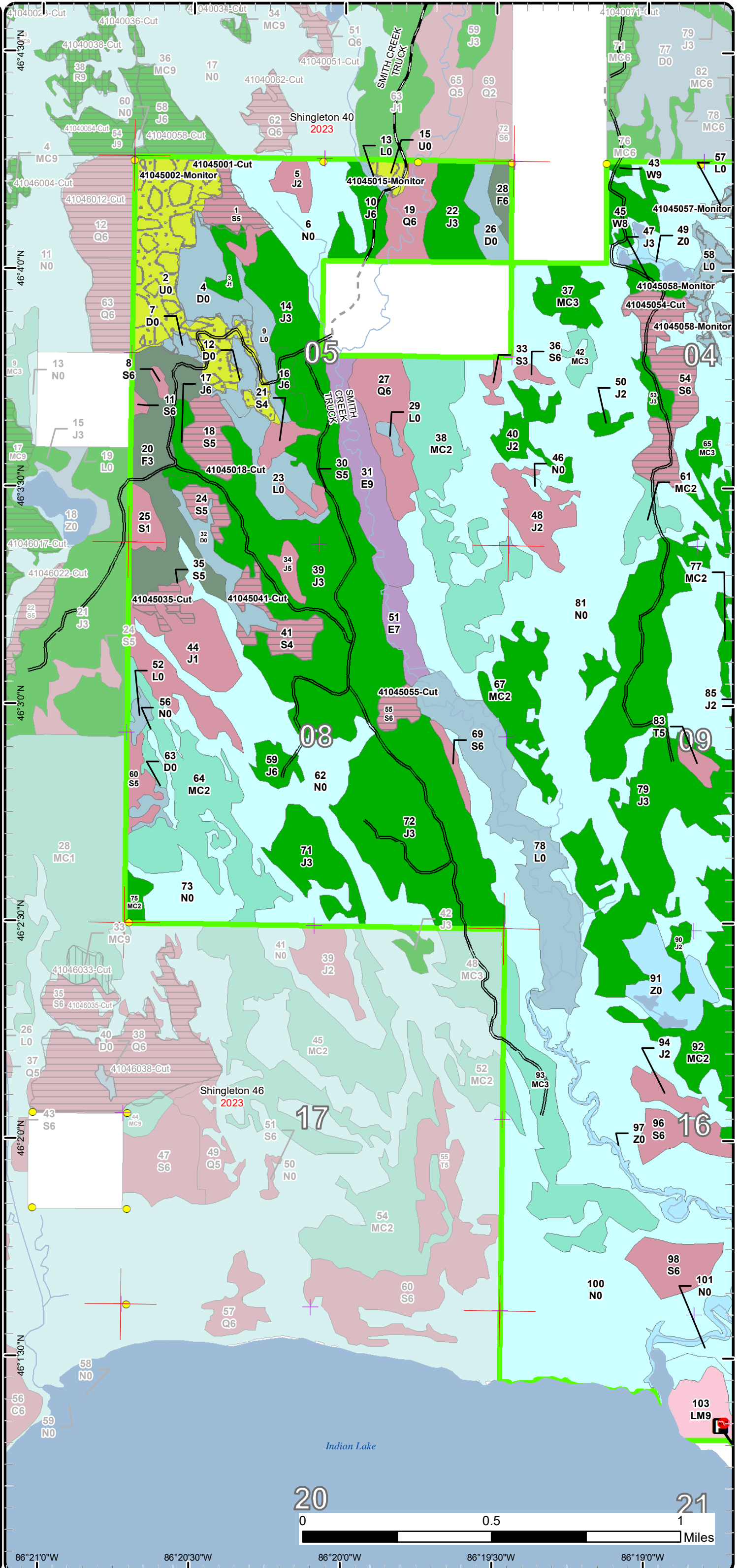
86°20'30"W    86°20'0"W    86°19'30"W    86°19'0"W    86°18'30"W

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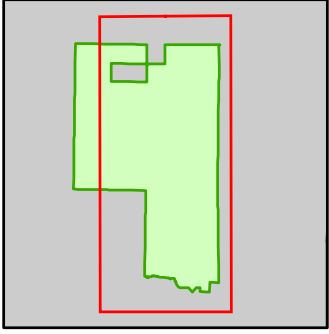


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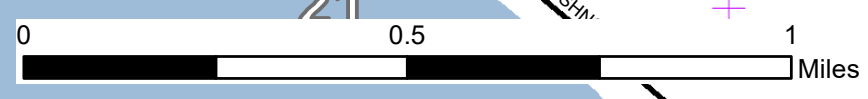
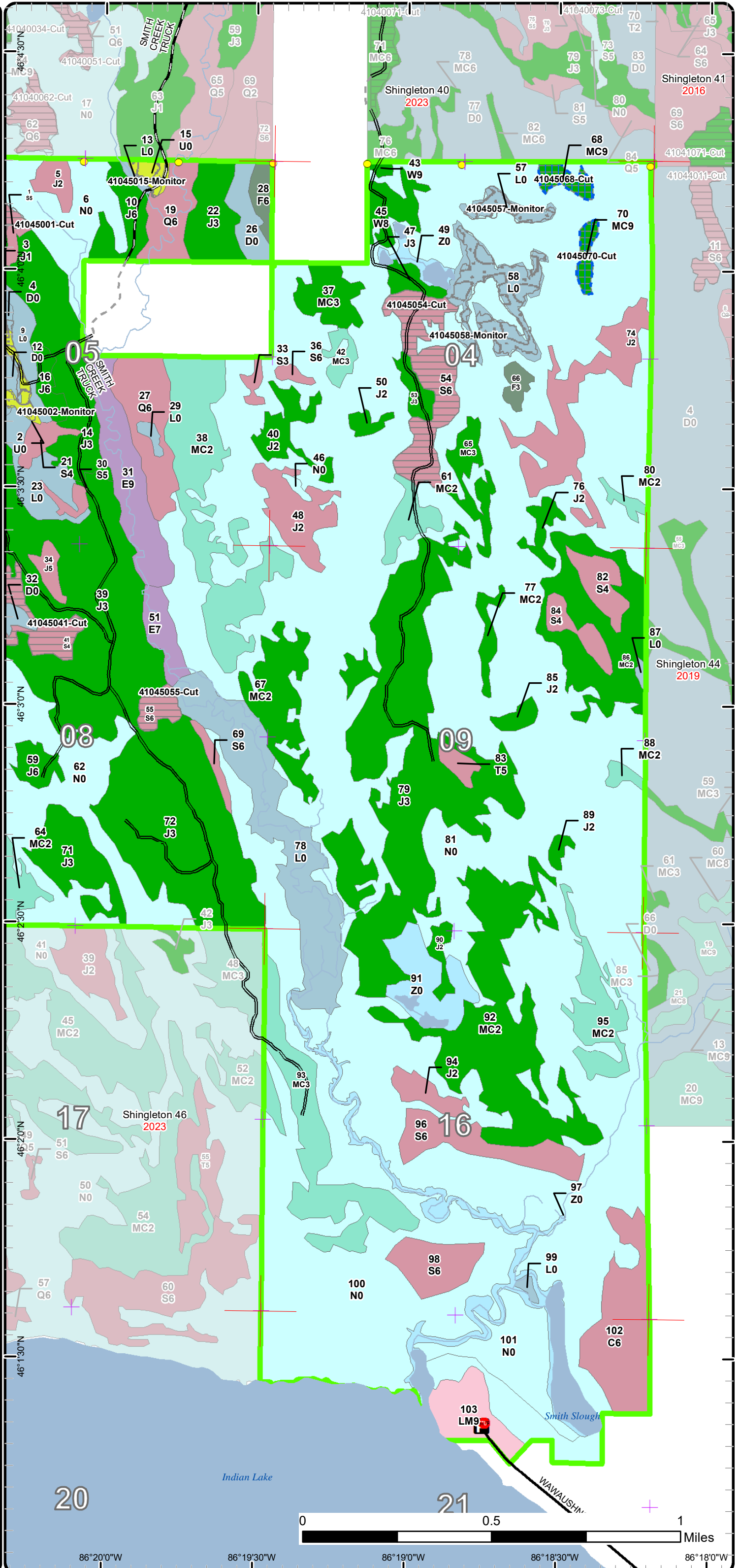


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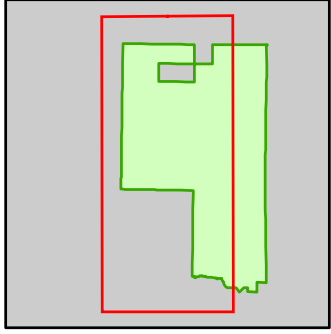


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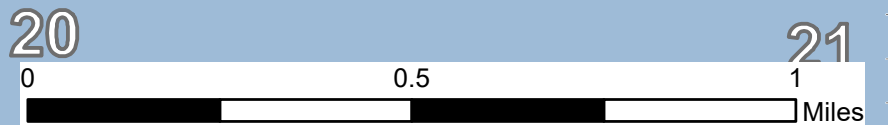
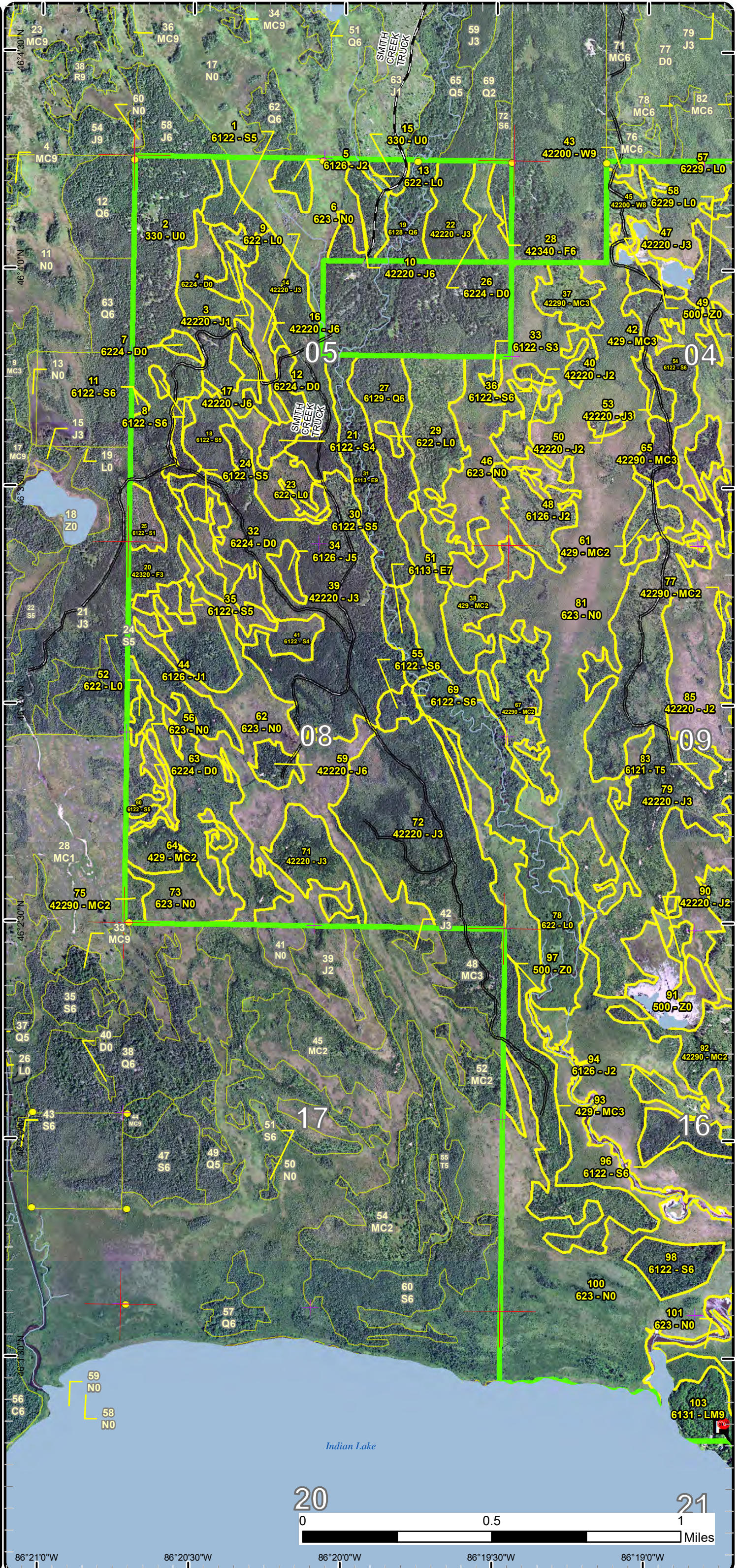


# Stand Boundary Map

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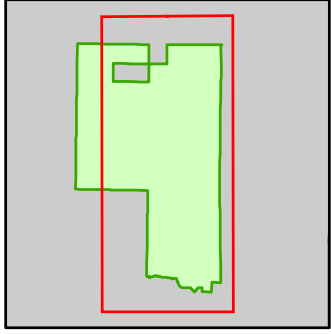


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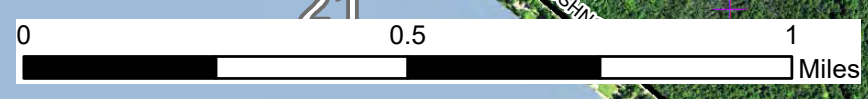
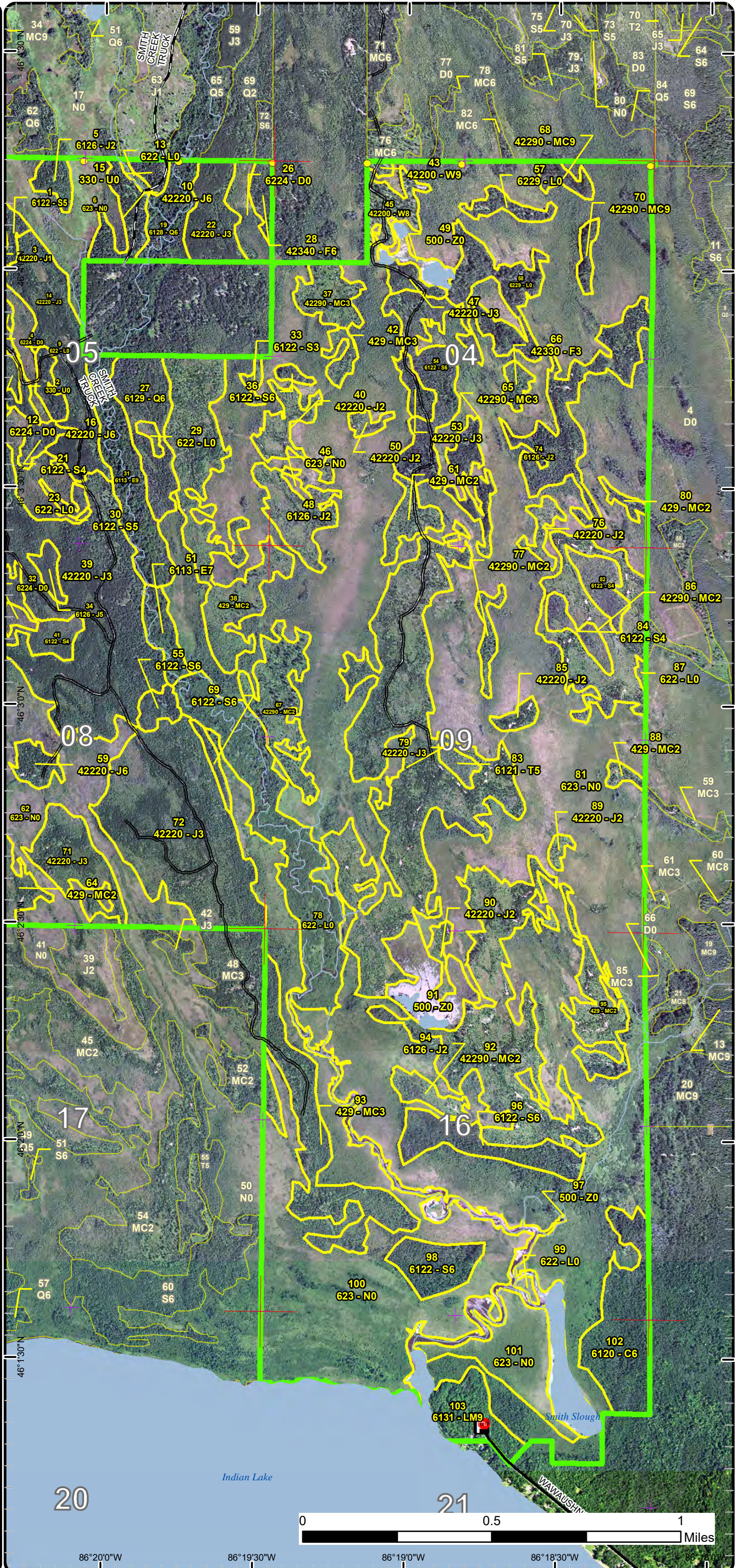


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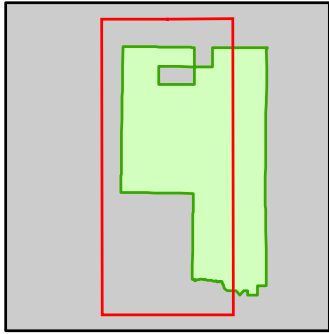


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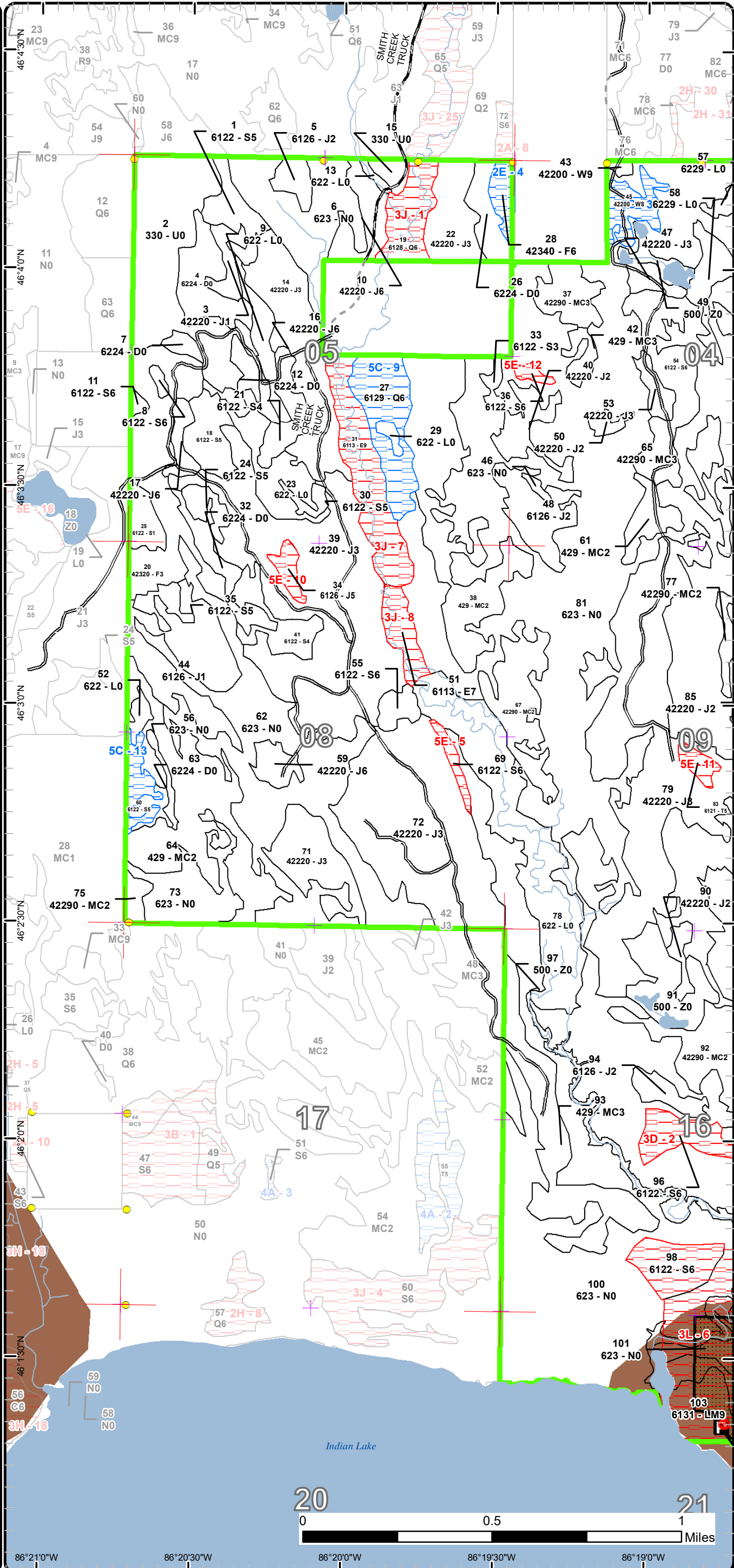


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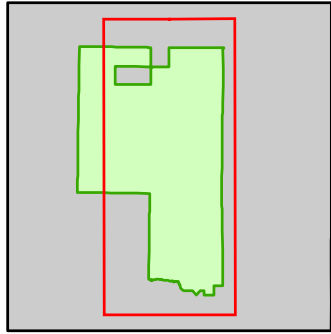
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- P Parking Lot
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2E: Road needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Wild & Scenic Rivers (USFS Lands)
- Deer Winter Range
- Recreational/Scenic Value Area



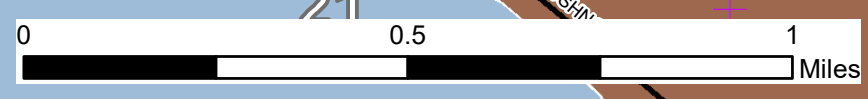
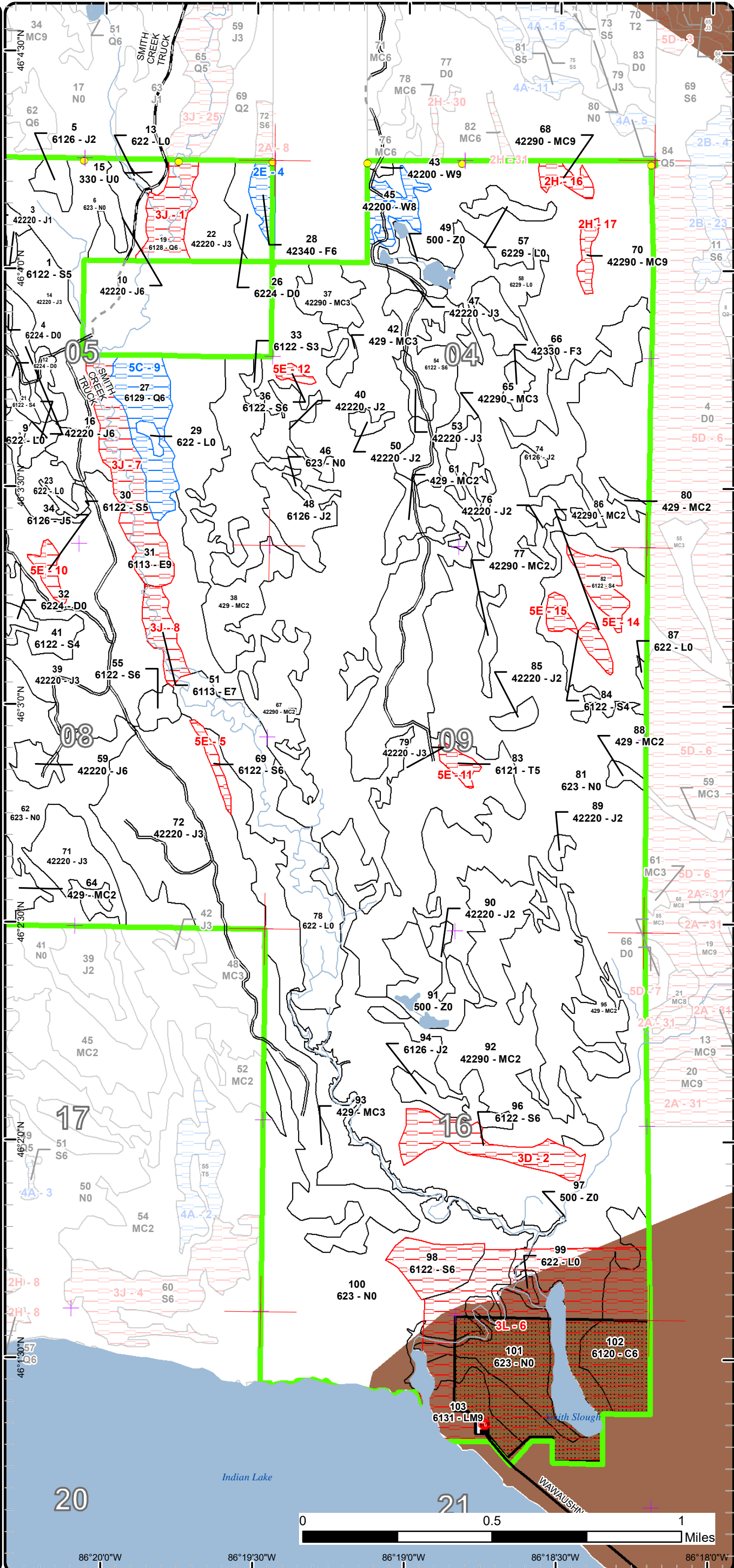


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- Available w/ Constraints
- Unavailable
- 2E: Road needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Wild & Scenic Rivers (USFS Lands)
- Deer Winter Range
- Recreational/Scenic Value Area



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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
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	41
Jack Pine	0	0	205	121	302	14	12	0	0	5	0	0	0	0	0	0	0	0	659
Low-Density Trees	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71
Lowland Conifers	0	0	0	0	0	0	0	0	0	17	27	0	0	0	0	0	0	0	43
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	43
Lowland Mixed Forest	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	21
Lowland Shrub	138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	138
Lowland Spruce/Fir	0	0	3	8	0	0	0	0	14	82	60	17	0	0	0	0	0	0	184
Marsh	1496	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1496
Natural Mixed Pines	0	0	178	5	13	0	0	0	0	0	10	0	0	0	0	0	0	0	204
Tamarack	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Treed Bog	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Upland Conifers	0	0	93	122	3	0	0	0	0	0	0	0	0	0	0	0	0	0	218
Upland Spruce/Fir	0	0	0	0	53	0	0	0	0	6	0	0	0	0	0	0	0	0	59
Water	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	13
<b>Total</b>	<b>1836</b>	<b>0</b>	<b>479</b>	<b>256</b>	<b>371</b>	<b>14</b>	<b>12</b>	<b>0</b>	<b>35</b>	<b>110</b>	<b>144</b>	<b>17</b>	<b>54</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3325</b>





## Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 45

Total Compartment Acres: 3,323

Commercial Harvest - 82  
 Harvests with Site Condition - 10  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Spruce/Fir	82	0	0	0	0	0	0	0	0	82
Natural Mixed Pines	0	0	0	10	0	0	0	0	0	10
<b>Total</b>	<b>82</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>91</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	91	0	0	0	0	0	101	0	0	192
Next Step	0	0	0	0	0	0	91	0	0	91
<b>Total</b>	<b>91</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>192</b>	<b>0</b>	<b>0</b>	<b>283</b>



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Proposed Treatments:**

<b>18</b>	<b>41045018-Cut</b>	13.7	6122 - Black Spruce	Poletimber Medium	82	Unspecified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all trees. Leave retention pockets along marsh edges.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> A mix of species currently found onsite will be considered acceptable.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>24</b>	<b>41045024-Cut</b>	6.0	6122 - Black Spruce	Poletimber Medium	81	Unspecified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all trees. Leave some retention patches along the marsh edge.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> A mix of species currently found onsite will be considered acceptable.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>35</b>	<b>41045035-Cut</b>	5.4	6122 - Black Spruce	Poletimber Medium	87	Unspecified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all trees. Leave some retention in the fingers on the southern parts of the stand.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> A mix of species currently found onsite will be considered acceptable.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>41</b>	<b>41045041-Cut</b>	14.0	6122 - Black Spruce	Poletimber Poor	84	Unspecified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all trees. Leave retention in the west part of the stand in the fingers that extend into the marsh.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> A mix of species currently found onsite will be considered acceptable.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
54	41045054-Cut	31.2	6122 - Black Spruce	Poletimber Well	90	Unspec ified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all species. Leave some scattered retention pockets along the marsh edges.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of species currently found on site will be considered acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Follow old paint lines if possible.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
55	41045055-Cut	6.0	6122 - Black Spruce	Poletimber Well	88	Unspec ified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all trees. Leave some retention area along the marsh edge.</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 species currently found onsite will be considered acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
68	41045068-Cut	5.3	42290 - Natural Mixed Pine	Sawtimber Well	94	111- 140	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Cut all species. Leave some large diameter red and white pine for a seed source.</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 species currently found on site will be considered acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Follow old paint lines if possible.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Blocked by Obstacle</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
70	41045070-Cut	4.2	42290 - Natural Mixed Pine	Sawtimber Well	94	111- 140	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Cut all species. Leave a few scattered large red and white pine for a seed source.</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 species currently found on-site.</p> <p><u>Regen:</u></p> <p><u>Other</u> Follow old paint lines if possible.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Blocked by Obstacle</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Approved Treatments:**

<b>1</b>	<b>41045001-Cut</b>	11.2	6122 - Black Spruce Poletimber	Medium	85	Unspecified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription Specs:</u> Stand is sparse in areas but much of the spruce is mature and needs to be cut. Harvest stand and leave retention along edge, excluding with paint line.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> mixed conifer and deciduous</p> <p><u>Other Comment:</u> Old next step comments: No follow up site prep will occur so long as a mix of the current species regenerate.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2014</p>											
<b>2</b>	<b>41045002-Monitor</b>	67.9	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	42220 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Scarified in September 2019. Check regeneration in October 2022.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> jack pine in uplands. mixed conifer and deciduous in lowlands</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>15</b>	<b>41045015-Monitor</b>	3.5	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	42220 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Scarified in September 2019. Check regeneration in October 2022.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> jack pine in uplands, lowlands can be mixed conifer and deciduous</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
<b>57 41045057-Monitor</b>	6.1	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No
<p><u>Prescription</u> Count regeneration and monitor for success.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> A mix of species currently found onsite will be considered acceptable  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2029</p>										
<b>58 41045058-Monitor</b>	23.9	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Count regeneration and monitor for success.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Any mix of species will be considered acceptable.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2029</p>										

**Total Treatment Acreage Proposed: 198.4**



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Tori Irving : Examiner

Compartment: 45  
Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
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### Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Condition	Dominant Site Conditions						
						2E	5C	2H	3D	3J	3L	5E
41	5	0	0	36	Cedar						36	
658	654	0	0	5	Jack Pine					0		5
71	71	0	0	0	Low-Density Trees							
44	0	26	0	17	Lowland Conifers		26			17		
43	0	0	0	43	Lowland Deciduous					43		
21	0	0	0	20	Lowland Mixed Forest						20	
138	136	0	0	1	Lowland Shrub		0				1	
183	111	8	0	64	Lowland Spruce/Fir		8		23		17	24
1496	1395	0	0	100	Marsh				0		100	
204	194	0	0	10	Natural Mixed Pines			10				
4	0	0	0	4	Tamarack							4
55	55	0	0	0	Treed Bog		0					
218	218	0	0	0	Upland Conifers							
59	53	6	0	0	Upland Spruce/Fir	6						
76	48	0	0	28	Water						28	
13	1	12	0	0	White Pine		12					
3,323	2,943	52	0	328	Total Forested Acres	6	46	10	23	60	203	33
	89%	2%	0%	10%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3D: Recreational / Scenic values	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
Stand is mature but access is very long and visuals may play a factor because of Rainey Wildlife Area viewing platform.							

## Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 45

Year of Entry: 2022

3	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	2E: Road needed	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	3L: Other wildlife concerns	203	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Rainey Wildlife Viewing Area							
7	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 45

Year of Entry: 2022

9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 45

Year of Entry: 2022

16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							





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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
<b>Rainey Wildlife Viewing Area</b> <b>Comments</b>	Visual Management Area	Recreational/Scenic Value Area	SCA	103



**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Wild and Scenic Rivers	Wild and Scenic Rivers are established under authority of the National Wild and Scenic Rivers Act, Public Law 90-542, as amended. Each Wild and Scenic River has a river specific Federal management plan, and State agencies may enter into written cooperative agreements with the administering Federal agency for the management of Wild and Scenic Rivers that are upon State-owned lands. There are 18 miles of Federal designated Wild and Scenic Rivers that are located within the State Forest.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
1	6122 - Black Spruce	Poletimber Medium	12.6	85	Unspecified	N/A																																									
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2	330 - Low-Density Trees	Nonstocked	66.6	0	Unspecified	4222 - Natural Jack Pine	This stand was scarified in September 2019.																																								
3	42220 - Natural Jack Pine	Sapling Poor	6.8	33	Unspecified	N/A	Stand has a low stocked ridge/knoll, stocking is better to the south, part of the Buelow sale.																																								
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4	6224 - Treed Bog	Nonstocked	18.9		Unspecified	No																																									
5	6126 - Lowland Jack Pine	Sapling Medium	6.4	35	Unspecified	N/A																																									
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6	623 - Emergent Wetland	Nonstocked	40.8		Unspecified	No																																									
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8	6122 - Black Spruce	Poletimber Well	1.6	83	Unspecified	N/A																																									
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16	42220 - Natural Jack Pine	Poletimber Well	5.9	55	Unspecified	N/A																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**19** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 17.4 84 Unspecified N/A Stand is a riparian area for Smith Creek. Quite a mix within stand balsam and spruce seem quite a bit younger.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	4	Pole/Log	10		Red Maple	Low	< 5 feet	Sapling
Balsam Fir	15	Pole/Sapling	6		Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	21	Pole/Sapling	6		Pin Cherry	Low	< 5 feet	Tall Shrub
Tamarack	3	Pole	7					
White Pine	15	Log/XLog	15					
Jack Pine	12	Pole	9					
Black Cherry	30	Pole/Log	10	84				

**20** 42320 - Upland Spruce Sapling Well 48.5 33 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	80	Sapling/Pole	4	33
Pin Cherry	5	Sapling	1	
Jack Pine	15	Sapling	3	

**21** 6122 - Black Spruce Poletimber Poor 5.7 77 Unspecified N/A Stand was not accessible during field inventory. Data was taken in 2010.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	65	Pole/Sapling	6	77	Tag Alder	Low	5 - 10 feet	Tall Shrub
Jack Pine	35	Pole	7		Nannyberry	Medium	< 5 feet	Tall Shrub

Stand borders on being non-forested, there is a mix of spruce and jack pine of various ages on low ground, left over from previous cuts likely due to small diameter and wet ground, still retention though.

**22** 42220 - Natural Jack Pine Sapling Well 20.0 35 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	13	Sapling	2	
Tamarack	2	Sapling	2	
White Pine	3	Log	10	
Jack Pine	77	Sapling/Pole	4	35
Black Cherry	5	Sapling	3	

**23** 622 - Lowland Shrub Nonstocked 18.2 Unspecified No

**24** 6122 - Black Spruce Poletimber Medium 6.0 81 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	70	Pole/Sapling	6	81	Black Spruce	High	Variable	Sapling
Tamarack	10	Pole/Sapling	6		Tamarack	Low	5 - 10 feet	Sapling
Jack Pine	20	Pole	7		Jack Pine	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>25</b>	6122 - Black Spruce	Sapling Poor	7.9	24	Unspecified	N/A	Stand is very low stocking, cut with Mic's ridges sale, low ground, some older residual jack pine mostly dead and some sub-merchantable spruce left from cutting.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Black Spruce		55	Sapling/Pole	4	24	Tag Alder		
Tamarack		5	Sapling	2		Low		
Jack Pine		40	Sapling	3		5 - 10 feet		
						Tall Shrub		

<b>26</b>	6224 - Treed Bog	Nonstocked	10.7		Unspecified	No	
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<b>27</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	26.5	95	Unspecified	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		15	Pole/Sapling	7		Red Maple	
Paper Birch		2	Log/Pole	10		High	
Black Spruce		47	Pole	8	95	Black Spruce	
Northern White Cedar		25	Log/Pole	10		Medium	
Tamarack		3	Pole	3		Low	
White Pine		8	Log	12		Variable	
						Sapling	
						Sapling	
						Tall Shrub	

<b>28</b>	42340 - Upland Spruce/Fir	Poletimber Well	6.2	85	Unspecified	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Balsam Fir		2	Pole	7		Balsam Fir	
Black Spruce		58	Pole	9	85	Low	
White Pine		15	XLog/Log	16		Black Spruce	
Red Pine		5	Log	12		Medium	
Jack Pine		20	Log/Pole	10		Variable	
						Sapling	
						Sapling	

<b>29</b>	622 - Lowland Shrub	Nonstocked	1.9		Unspecified	No	
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<b>30</b>	6122 - Black Spruce	Poletimber Medium	3.1	86	Unspecified	N/A	Small island of spruce that was left from previous large cuts as retention.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Spruce		93	Pole/Sapling	6	86	Red Maple	
White Pine		3	Log/XLog	15		Medium	
Jack Pine		4	Pole	7		Low	
						Variable	
						Sapling	
						Tall Shrub	

<b>31</b>	6113 - Lowland Maple	Sawtimber Well	32.4	96	Unspecified	N/A	Stand is a riparian area for Smith Creek.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		63	Log/Pole	11	96	Red Maple	
Balsam Fir		5	Pole	7		Medium	
Black Spruce		20	Pole	6		Low	
Northern White Cedar		2	Log	12		Variable	
White Pine		10	Log/XLog	15		Sapling	
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						Tall Shrub	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
32	6224 - Treed Bog	Nonstocked	11.4		Unspecified	No																																																					
33	6122 - Black Spruce	Sapling Well	2.6	19	Unspecified	N/A	Stand is a small island with more low than upland. Some sub-merch spruce from previous cut.																																																				
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34	6126 - Lowland Jack Pine	Poletimber Medium	4.6	85	Unspecified	N/A	Stand is lowland jack pine and black spruce, small diameter which was left as retention from previous large cuts.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>38</b>	429 - Mixed Upland Conifers	Sapling Medium	63.2	19	1-50	N/A	This stand was cut as part of the Buck Sale. It is mostly upland with some areas of lowland. Regeneration is fairly diverse. The southern end of the stand has some scattered residual log-sized pine.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple	15	Sapling/Pole	4			Tag Alder	Medium	5 - 10 feet	Tall Shrub	
Bigtooth Aspen	5	Sapling	3			Pin Cherry	Low	< 5 feet	Tall Shrub	
Black Spruce	15	Sapling/Pole	4							
Tamarack	3	Sapling	2							
White Pine	2	Sapling	2							
White Pine	3	Log/XLog	14							
Red Pine	2	Sapling	2							
Red Pine	5	Log/XLog	12							
Jack Pine	50	Sapling	2	19						

<b>39</b>	42220 - Natural Jack Pine	Sapling Well	127.8	33	Unspecified	N/A	Stand was cut in 1987, Buelow Sale, the uplands regenerated very well to almost pure jack pine, these areas are growing well with good natural pruning, the low fringes are doing well also.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple	4	Sapling	2			Tag Alder	Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen	4	Sapling/Pole	3			Pin Cherry	Low	< 5 feet	Tall Shrub	
Black Spruce	28	Sapling	2							
Tamarack	2	Sapling	2							
White Pine	2	Sapling	2							
Jack Pine	60	Sapling/Pole	3	33						

<b>40</b>	42220 - Natural Jack Pine	Sapling Medium	12.7	19	Unspecified	N/A	Stand is a ridge that flattens out and transitions to low ground where there is some residual sub-merchantable black spruce from previous cut.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple	7	Sapling	2			Tag Alder	Low	5 - 10 feet	Tall Shrub	
Black Spruce	26	Sapling/Pole	4			Pin Cherry	Low	< 5 feet	Tall Shrub	
Tamarack	7	Sapling	2							
Jack Pine	60	Sapling	3	19						

<b>41</b>	6122 - Black Spruce	Poletimber Poor	14.0	84	Unspecified	N/A	Stand is low ground with areas of poor stocking.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple	2	Pole	7			Red Maple	Low	5 - 10 feet	Sapling	
Black Spruce	79	Pole	6	84		Black Spruce	Medium	Variable	Sapling	
Tamarack	5	Pole	6			Tag Alder	Medium	5 - 10 feet	Tall Shrub	
Jack Pine	14	Pole	7			Nannyberry	Low	< 5 feet	Tall Shrub	

<b>42</b>	429 - Mixed Upland Conifers	Sapling Well	5.0	19	1-50	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce	35	Sapling/Pole	4			Tag Alder	Medium	5 - 10 feet	Tall Shrub	
Tamarack	10	Sapling	2			Pin Cherry	Low	< 5 feet	Tall Shrub	
White Pine	10	Sapling	2							
Jack Pine	45	Sapling	3	19						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
<b>43</b>	42200 - Natural White Pine	Sawtimber Well	1.4	112	81-110	N/A																																											
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<b>49</b>	500 - Water	Nonstocked	6.5		Unspecified	No																																											



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51	6113 - Lowland Maple	Sawtimber Poor	10.6	96	Unspecified	N/A	Riparian area with low stocking of maple and spruce.																																																							
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54	6122 - Black Spruce	Poletimber Well	31.2	90	Unspecified	N/A	This stand was Unit 1 of Marsh-a-thon Sale #41-016-12-01. Stand was never cut and was turned back in.																																																							
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55	6122 - Black Spruce	Poletimber Well	6.0	88	Unspecified	N/A	Stand was left as retention from larger adjacent cuts, diameter and size peter to the west, soils better to the east. Stand is small and jack pine is dying.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
56	623 - Emergent Wetland	Nonstocked	2.8		Unspecified	No																																											
57	6229 - Mixed lowland shrub	Nonstocked	6.7	0	Unspecified	612 - Lowland Coniferous Forest	Stand was cut as part of Marsh-a-thon #41-016-12-01. TCR Date 8/29/2019.																																										
58	6229 - Mixed lowland shrub	Nonstocked	27.7	0	Unspecified	612 - Lowland Coniferous Forest	Stand was cut as part of Marsh-a-thon Sale #41-016-12-01. TCR Date 8/229/2019.																																										
59	42220 - Natural Jack Pine	Poletimber Well	7.2	33	Unspecified	N/A																																											
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60	6122 - Black Spruce	Poletimber Medium	8.2	79	Unspecified	N/A																																											
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61	429 - Mixed Upland Conifers	Sapling Medium	10.1	21	1-50	N/A	Stand was cut in 1999, the regeneration is patchy on the upland portions of the stand while the lowland portions are producing better regeneration.																																										
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62	623 - Emergent Wetland	Nonstocked	105.8		Unspecified	No																																											
63	6224 - Treed Bog	Nonstocked	3.5		Unspecified	No																																											





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**64** 429 - Mixed Upland Conifers Sapling Medium 62.7 24 1-50 N/A Stand was cut as part of Mic's Ridges sale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Sapling	2		Nannyberry	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	3	Sapling	2		Pin Cherry	Low	< 5 feet	Tall Shrub
Black Spruce	36	Sapling	1					
Tamarack	3	Sapling	2					
White Pine	2	Sapling	2					
Jack Pine	53	Sapling	3	24				

**65** 42290 - Natural Mixed Pine Sapling Well 12.5 32 1-50 N/A Stand was cut in 1988 except for a 1-2 acre patch on south edge which was cut in 1998. There is some mature jack pine and spruce on the fringes of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Sapling	2		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	36	Sapling	2		Pin Cherry	Low	< 5 feet	Tall Shrub
White Pine	5	Sapling	2					
Jack Pine	57	Sapling/Pole	4	32				

**66** 42330 - Upland Fir Sapling Well 4.3 30 Unspecified N/A Stand was part of Twin Pond sale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	75	Sapling	3	30	Pin Cherry	Low	< 5 feet	Tall Shrub
Black Spruce	22	Sapling	3					
Jack Pine	3	Sapling/Pole	4	30				

**67** 42290 - Natural Mixed Pine Sapling Medium 27.0 19 1-50 N/A The stand was cut as part of the Buck Sale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	4		Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	5	Sapling	3		Pin Cherry	Low	< 5 feet	Tall Shrub
Black Spruce	15	Sapling	4					
Tamarack	3	Sapling	2					
White Pine	2	Sapling	2					
White Pine	3	Log/XLog	14					
Red Pine	2	Sapling	2					
Red Pine	5	Log/XLog	13					
Jack Pine	55	Sapling	2	19				

**68** 42290 - Natural Mixed Pine Sawtimber Well 5.3 94 111-140 N/A Stand Unit 4 of Marsh-a-thon Sale #41-016-12. This unit was not cut and turned back in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	33	Pole	8		Black Spruce	High	Variable	Sapling
Tamarack	2	Pole	7		Tamarack	Low	< 5 feet	Sapling
White Pine	10	Log/XLog/Pole	15		White Pine	Low	< 5 feet	Sapling
Red Pine	40	Log/XLog/Pole	15	94	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Jack Pine	15	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
69	6122 - Black Spruce	Poletimber Well	3.6	96	Unspecified	N/A	Stand is a narrow buffer left from previous large cuts as retention.																																						
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70	42290 - Natural Mixed Pine	Sawtimber Well	4.2	94	111-140	N/A	Stand Unit 5 of Marsh-a-thon Sale #41-016-12. This unit was not cut and turned back in.																																						
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71	42220 - Natural Jack Pine	Sapling Well	24.2	24	Unspecified	N/A	Stand was cut as part of Mics Ridges Sale.																																						
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72	42220 - Natural Jack Pine	Sapling Well	96.4	24	Unspecified	N/A	Mic's Ridges sale, good regen. No real sub-canopy since everything is in the canopy. Traces of white birch																																						
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<b>75</b>	42290 - Natural Mixed Pine	Sapling Medium	4.5	24	1-50	N/A	Stand was cut as part of the Mic's Ridges sale, there is some spruce that was left uncut due to being sub-merchantable.																																																
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<b>78</b>	622 - Lowland Shrub	Nonstocked	66.5		Unspecified	No																																																	
<b>79</b>	42220 - Natural Jack Pine	Sapling Well	145.7	19	Unspecified	N/A	Large stand of good regeneration. Stand was cut in the winter of 2001 as part of the Buck Sale. Stand is mostly upland ridges but does transition to lower ground on the fringes.																																																
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<b>80</b>	429 - Mixed Upland Conifers	Sapling Medium	2.8	30	51-80	N/A	Stand was part of the Twin Pond Sale.																																																
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82	6122 - Black Spruce	Poletimber Poor	10.6	87	81-110	N/A	Stand was set up as part of the Buck Sale, this was a portion that was left uncut because of the amount of sub-merchantable spruce and due to the low ground, poor stocking. Stand is now acting as retention for the larger cut portions of the sale.																																							
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83	6121 - Tamarack	Poletimber Medium	4.1	93	Unspecified	N/A	Stand served as retention for the Buck Sale.																																							
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84	6122 - Black Spruce	Poletimber Poor	7.7	87	Unspecified	N/A	This stand was set up as part of the Buck Sale. This was a portion that was left uncut because of the amount of sub-merchantable spruce, poor stocking and the low ground. This stand now serves as retention for the lager sale in the area.																																							
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85	42220 - Natural Jack Pine	Sapling Medium	3.9	19	Unspecified	N/A	This stand was part of the Buck Sale.																																							
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86	42290 - Natural Mixed Pine	Sapling Medium	45.8	19	1-50	N/A	Stand was part of the Buck Sale mostly an upland ridge. The old roads in the stand have regenerated well.																																							
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87	622 - Lowland Shrub	Nonstocked	1.1		Unspecified	No																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**88** 429 - Mixed Upland Conifers Sapling Medium 2.9 19 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	41	Sapling	1		Pin Cherry	Low	< 5 feet	Tall Shrub
White Pine	4	Sapling	1					
Red Pine	3	Sapling	1					
Jack Pine	52	Sapling	1	19				

**89** 42220 - Natural Jack Pine Sapling Medium 2.5 19 Unspecified N/A Stand was cut as part of the Buck Sale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	30	Sapling	1		Pin Cherry	Low	< 5 feet	Tall Shrub
White Pine	8	Sapling	1					
Jack Pine	62	Sapling	1	19				

**90** 42220 - Natural Jack Pine Sapling Medium 4.5 19 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	20	Sapling	1		Pin Cherry	Low	< 5 feet	Tall Shrub
Tamarack	4	Sapling	1					
Jack Pine	76	Sapling	1	19				

**91** 500 - Water Nonstocked 23.4 Unspecified No

**92** 42290 - Natural Mixed Pine Sapling Medium 85.2 19 1-50 N/A Stand was cut in the winter of 2001. Stand consists of ridges of pine that transition to low ground on the edges. There are some pockets of mature red pine throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Sapling	2		Tag Alder	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	2	Sapling	2		Pin Cherry	Medium	< 5 feet	Tall Shrub
Balsam Fir	5	Sapling	2					
Black Spruce	19	Sapling	2					
Tamarack	2	Sapling	2					
White Pine	5	Sapling	2					
Red Pine	10	Log/Pole/Sap	10					
Jack Pine	55	Sapling	3	19				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>93</b>	429 - Mixed Upland Conifers	Sapling Well	49.0	24	1-50	N/A																																																															
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<b>94</b>	6126 - Lowland Jack Pine	Sapling Medium	7.7	19	Unspecified	N/A																																			
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<b>95</b>	429 - Mixed Upland Conifers	Sapling Medium	22.0	19	1-50	N/A	Stand was cut as part of Buck Sale.																														
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<b>96</b>	6122 - Black Spruce	Poletimber Well	22.7	95	Unspecified	N/A	Stand was not accessible during field inventory. Data from 2010 was used.  Stand is mature but access is very long and visuals may play a factor because of Rainey Wildlife Area viewing platform.																																																								
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<b>97</b>	500 - Water	Nonstocked	45.8		Unspecified	No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>98</b>	6122 - Black Spruce	Poletimber Well	17.0	100	Unspecified	N/A	Stand was not accessible during field inventory. Subtle ridge of pine on east side Directly across from Rainey Platform.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole	7		Red Maple	Low	5 - 10 feet	Sapling
Black Spruce	58	Pole	8	100	Balsam Fir	Medium	Variable	Sapling
White Pine	16	Log/XLog	15		Black Spruce	Medium	Variable	Sapling
Red Pine	22	Log/XLog	15		White Pine	Low	5 - 10 feet	Sapling
Jack Pine	2	Pole	9					

<b>99</b>	622 - Lowland Shrub	Nonstocked	1.4		Unspecified	No	
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<b>100</b>	623 - Emergent Wetland	Nonstocked	206.7		Unspecified	No	
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<b>101</b>	623 - Emergent Wetland	Nonstocked	30.8		Unspecified	No	
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<b>102</b>	6120 - Lowland Cedar	Poletimber Well	41.1	114	Unspecified	N/A	Stand was not accessible during field inventory. Data was taken from 2010.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	4	Pole/Log	9		Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	6	Log/Pole	10		Balsam Fir	High	Variable	Sapling
Quaking Aspen	2	Log	10		Black Spruce	Low	< 5 feet	Sapling
Balsam Fir	5	Pole	8		Tamarack	Low	< 5 feet	Sapling
Black Spruce	3	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	80	Pole/Log	9	114				

<b>103</b>	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	20.7	72	111-140	N/A	Rainey Wildlife Area
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Log/Pole/XLog	12	72
Yellow Birch	2	Pole	6	
Paper Birch	5	Log/Pole	10	
Balsam Fir	10	Pole	7	
Northern White Cedar	4	Pole	6	
White Pine	4	Log/XLog	15	
Hemlock	35	Log/Pole/XLog	10	