



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41152

Entry Year 2023

Acreage: 2,752

County Schoolcraft

Management Area: Seney Manistique Swamp

Stand Examiner: Steve Touvila

Legal Description:

T46N R15W Sections 13, 14, and 22 - 27

Identified Planning Goals:

To provide multiple use benefits for the citizens of Michigan.

Soil and topography:

The area features a mix of flat, wetter areas with muck soils and ridges with sandy soils & better drainage.

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

There's 320 acres of continuous private land in section 22 in the northwest portion of the compartment.

Unique Natural Features:

The Driggs River sets the eastern boundary of this compartment.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

The hardwoods in this compartment are fairly low quality, but offer opportunities to increase diversity and improve wildlife habitat through silvicultural practices that favor hemlock, yellow birch, and white pine.

Watershed and Fisheries Considerations:

This compartment contains the Driggs River. The Driggs River is designated a Type 1 trout stream less than 50' width and has a predicted mean July temperature of 63.7 °F (cold stream). A 300' buffers is recommended for the Driggs River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment lies within the Seney Sand Lake Plain ecological sub-subsection. The growing season in this area is less than 100 days with extreme minimum winter temperatures of -46 degrees F. Annual snowfall in this area averages between 120 and 140 inches. General Land Office (GLO) Surveyor notes indicate that this entire compartment was dominated by swamp conifer stands and open marshes in the 1850s. Cedar, tamarack, black spruce and alder (possibly some willow may have been misidentified as alder) were listed as primary species. The notes also indicate there was at least a small presence of aspen. White pine was the primary upland forest cover type. Both the Pine and Commencement Creeks flow through the western portion of this compartment, coming together approximately ¼ mile to the south. While fire and windthrow undoubtedly played a major role in the disturbance history, GLO notes show that beaver dams were also present. Although aspen and lowland hardwoods also appear to be a bit more abundant, western and central portions of this compartment appear to contain approximately the same species composition as was found by the original surveyors. However, in the eastern portion of the compartment, jack pine now plays a much more significant role than it once did.

Wildlife habitat objectives include protecting the stream corridors for the Pine and Commencement Creeks, maintaining large diameter conifers (Stand 31), providing age and structural diversity within the conifer community, and protecting the ecology of the marsh complex. Gray wolves (Michigan and federally endangered), moose (Michigan special concern) and sharp-tailed grouse (Michigan special concern) are known to utilize this compartment. The regenerating jack pine in section 33 is a good example of an area that has served as temporary sharptail habitat without being removed from forest production. Other wildlife species of interest may include ruffed grouse, American woodcock, bobcat, and black bear.

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. A State-owned sand/gravel (Star Siding Road #3) pit is two miles to the northwest. There

may be potential for sand & gravel and bedrock limestone within the compartment but potential for surface mining would be inhibited by wetlands. No current mineral leasing activity exists in the area. The State does not own all the mineral rights within the compartment and may or may not own the rights to the non-metallic minerals depending on deed language. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

The Ecklund road provides fair access to the north part of the compartment, but much of the area is too wet to reach easily, and few usable roads exist.

Survey Needs:

Recreational Facilities and Opportunities:

This area is popular for hunting, fishing, and trapping.

Fire Protection:

The access problems could make fire suppression difficult here.

Additional Compartment Information:

The following reports from the Inventory are attached:

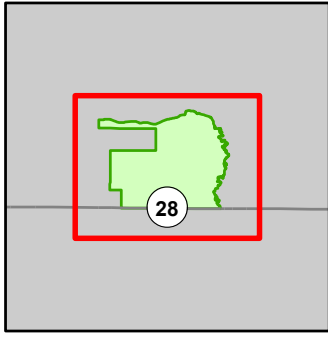
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

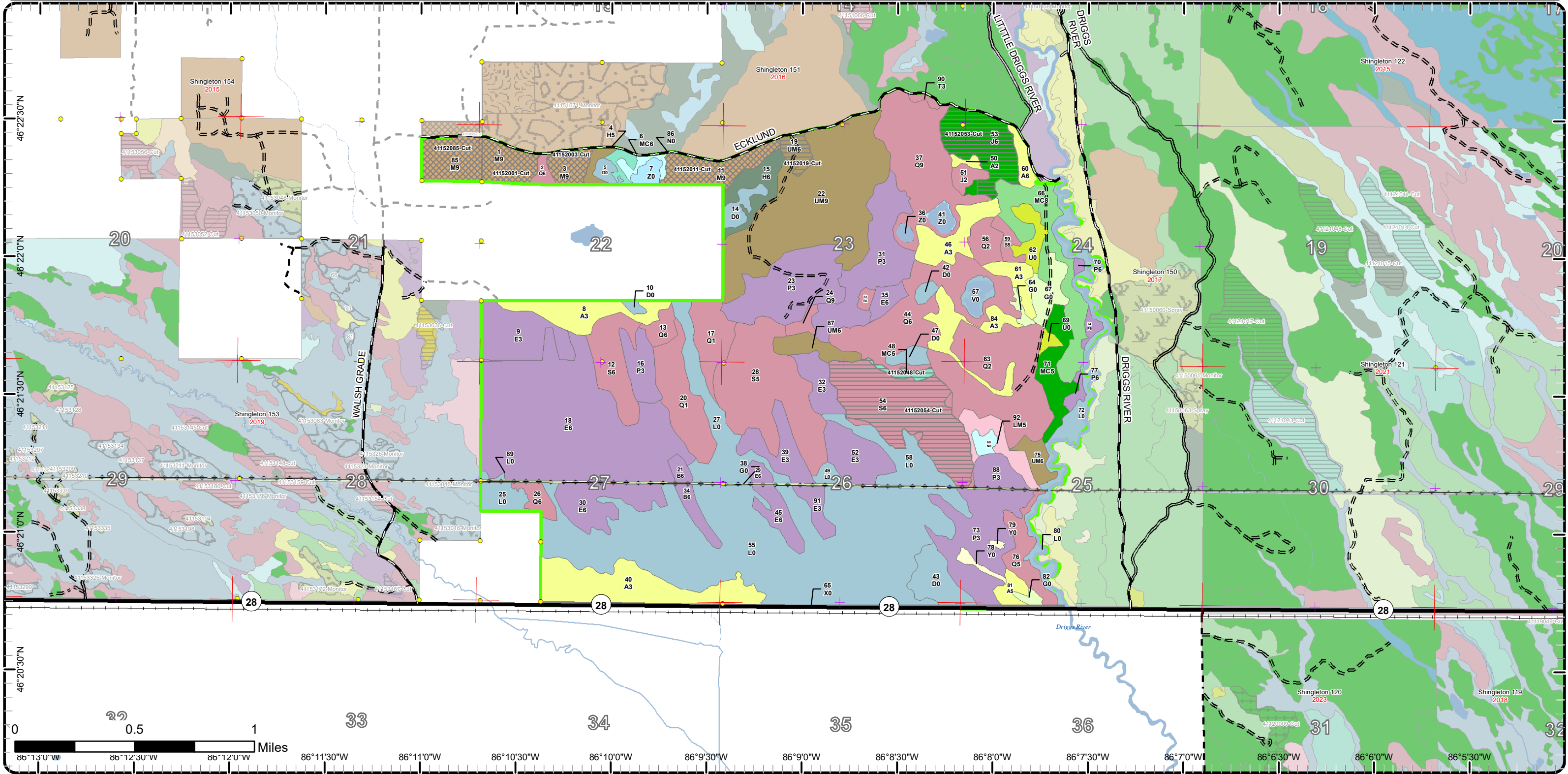
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 152
 T46N, R15W, Sec: 21-27
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Manistique Swamp
 YOE: 2023
 Acres: 2752.2 GIS Calculated
 Examiner: Steve Touvila
 Map Revised: 1/28/2022
 Map Phase: Post Review

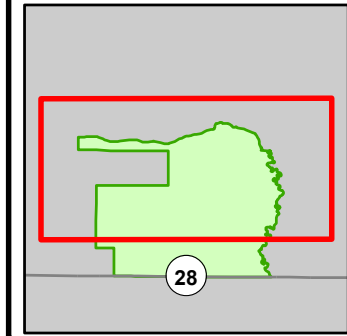


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- - - Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Paved Road
- - - Federal / State - Dirt / Gravel Road
- - - Private - Dirt / Gravel Road
- Active Railroads
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ⊕ Powerline
- ▭ Compartment Boundary
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil

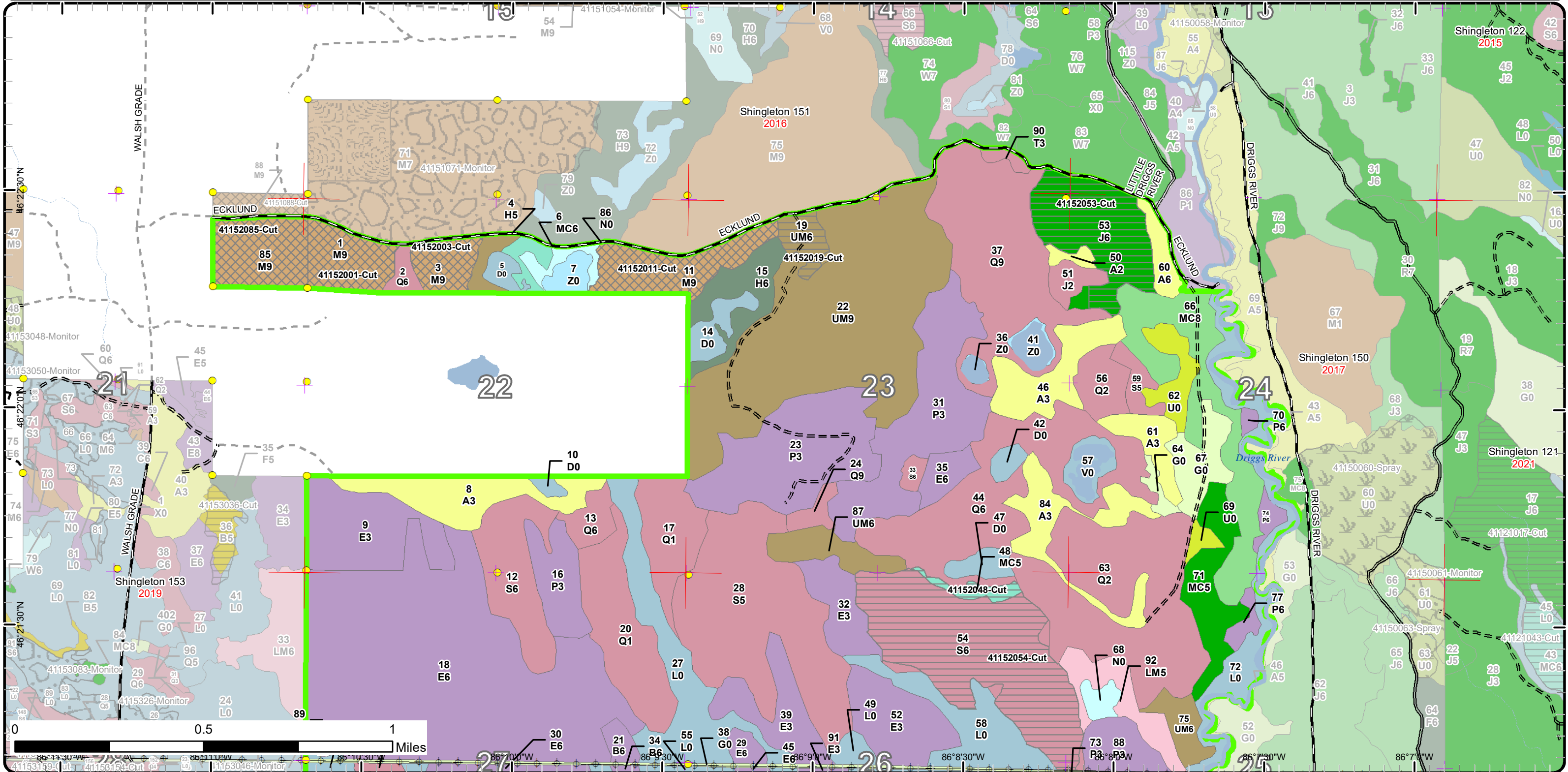


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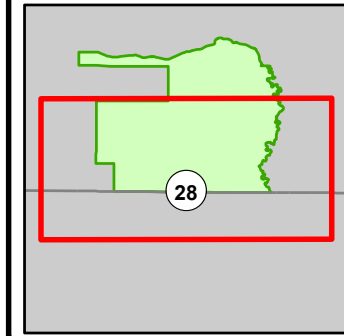


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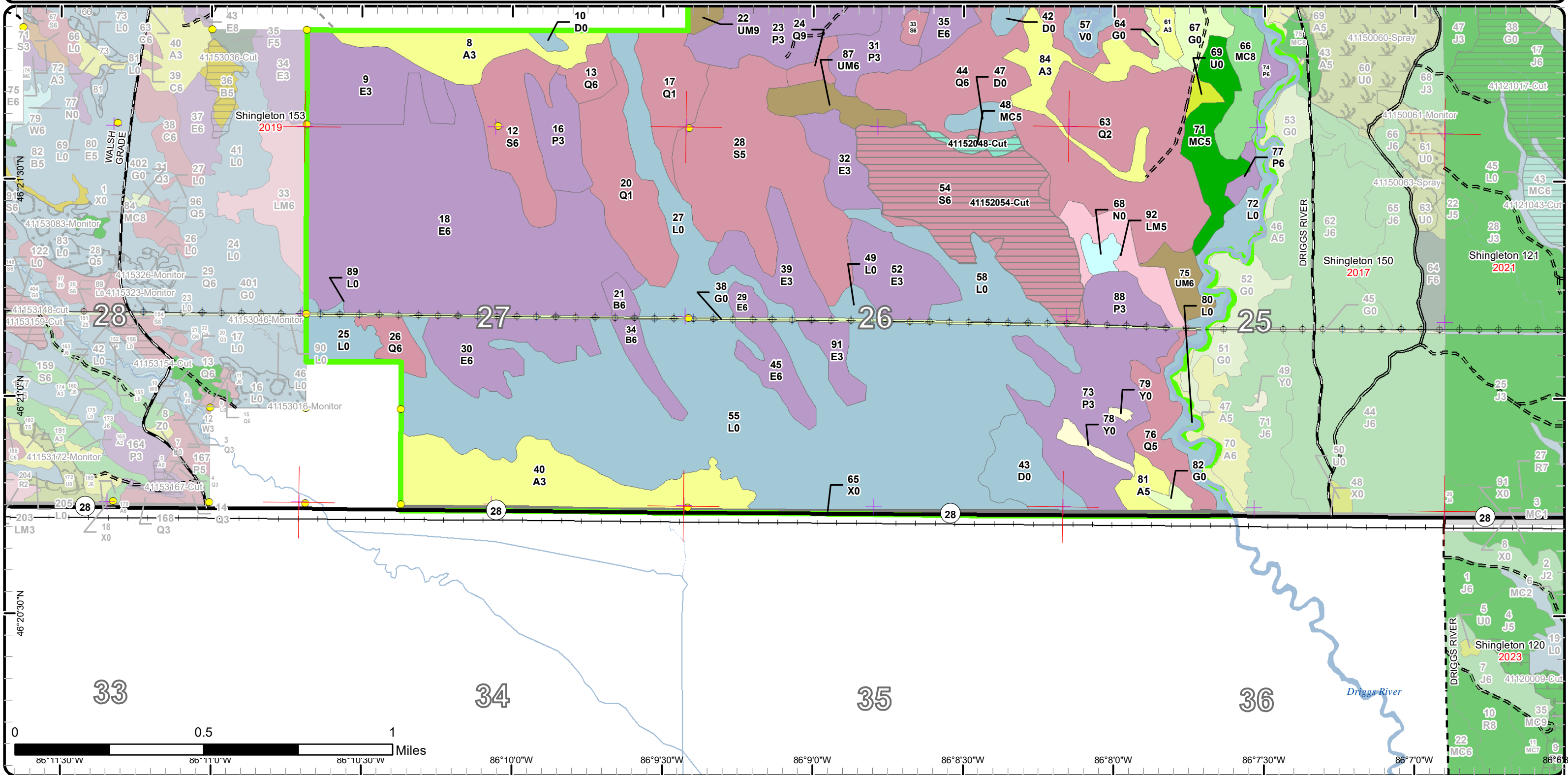


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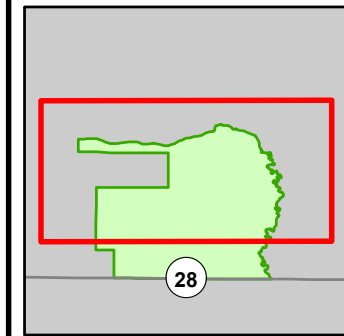


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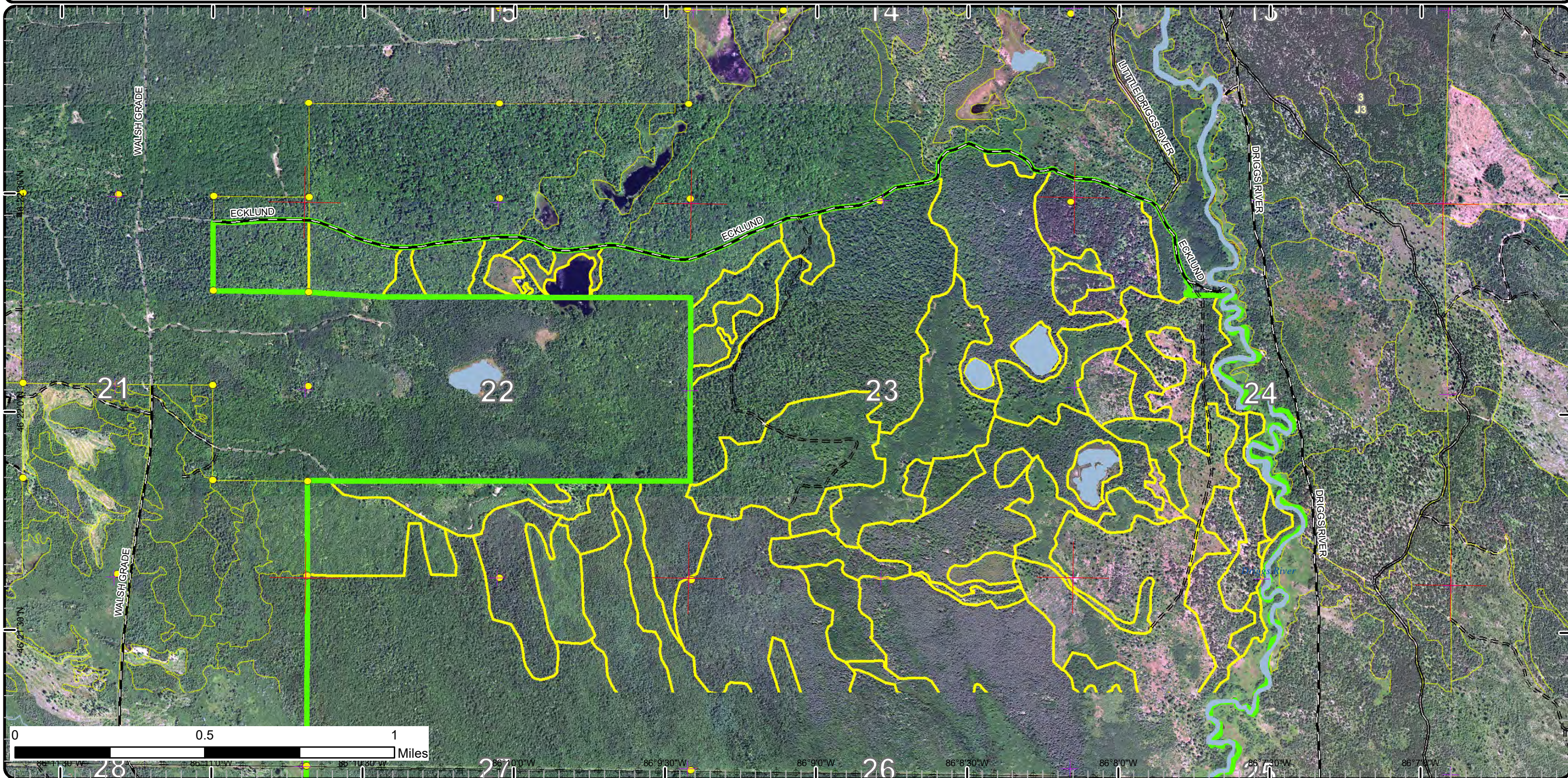


Stand Boundary Map

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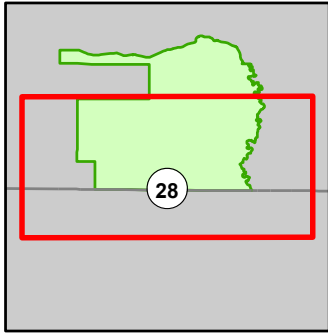


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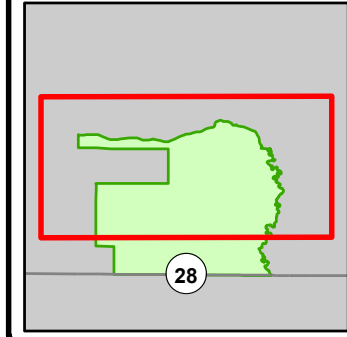


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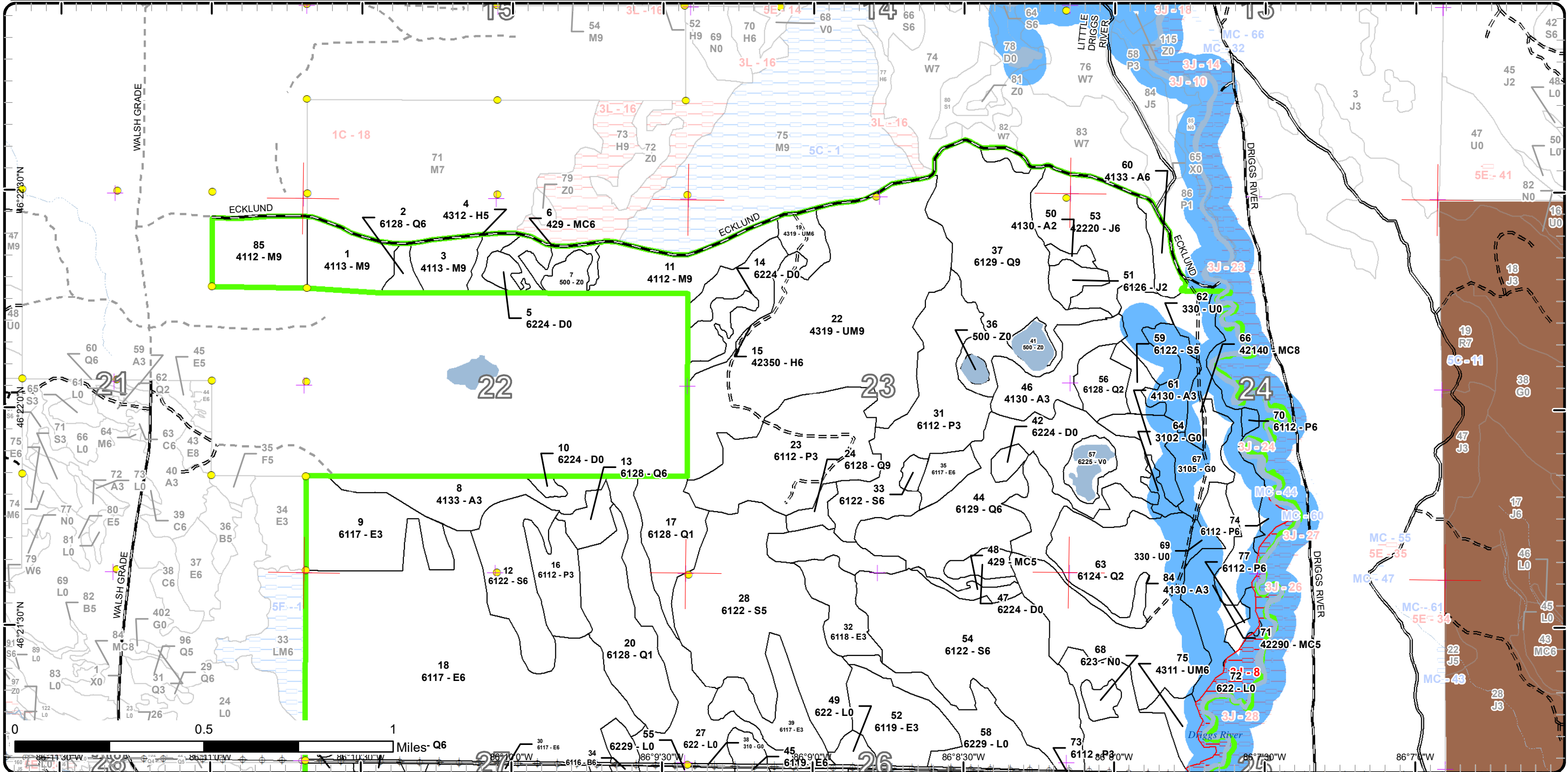


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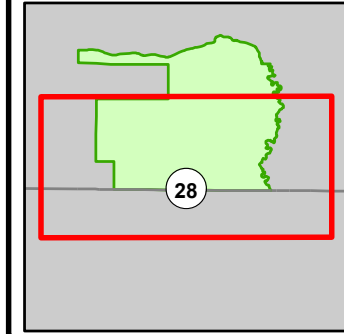


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- Compartment Boundary
- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Wildlife Management Areas

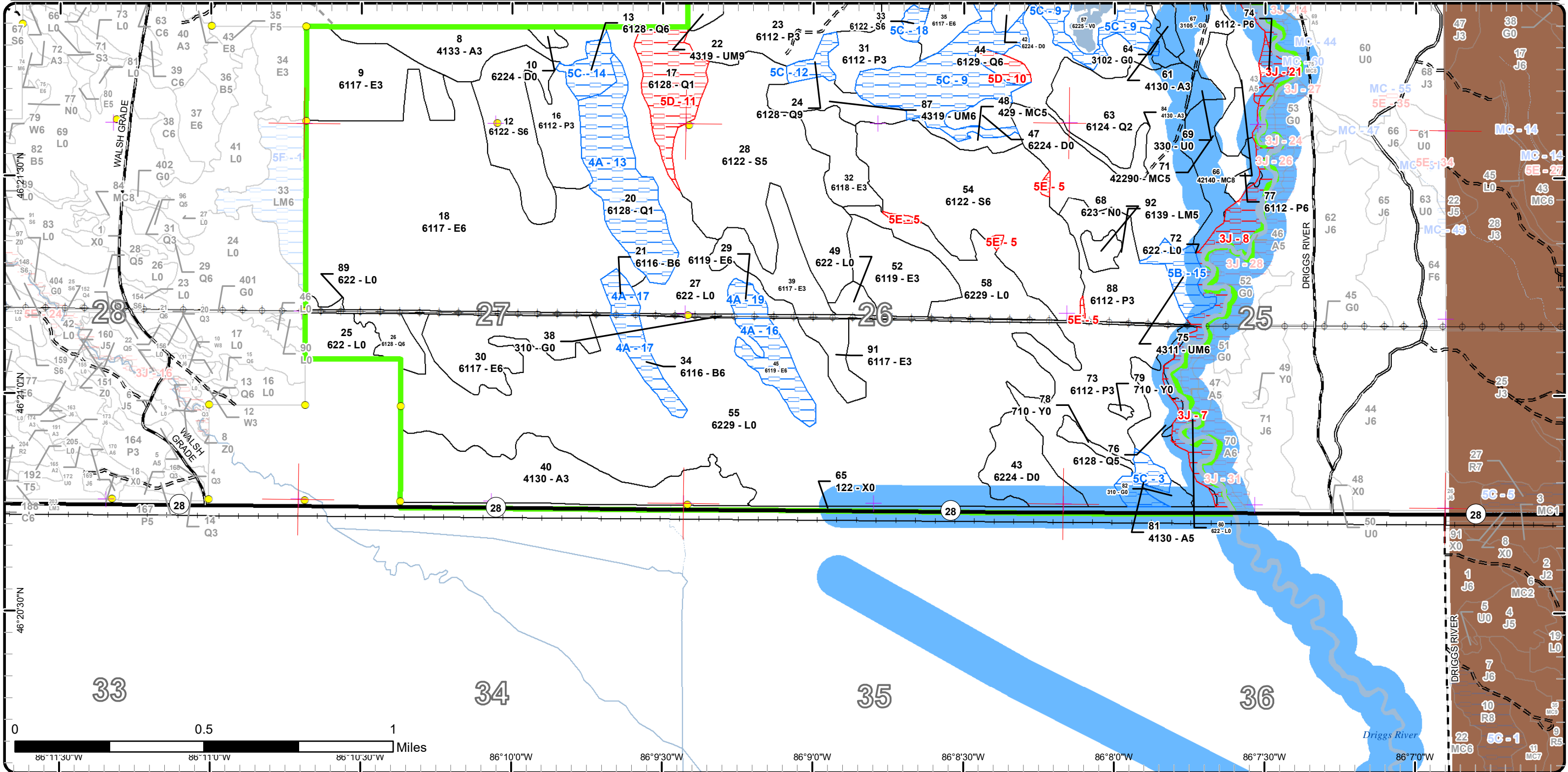


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Report 1 – Total Acres by Cover Type and Age Class



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	138	36	0	9	0	0	0	8	0	0	0	0	0	0	0	0	191
Bog	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Hemlock	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	28
Herbaceous Openland	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Jack Pine	0	0	0	7	0	0	0	0	0	48	0	0	0	0	0	0	0	0	55
Low-Density Trees	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Aspen/Balsam Poplar	0	0	0	243	0	4	6	0	0	0	0	0	0	0	0	0	0	0	253
Lowland Conifers	0	0	0	117	0	0	0	23	15	172	87	0	0	0	0	0	0	0	412
Lowland Deciduous	0	0	0	43	37	50	0	0	299	0	0	0	0	0	0	0	0	0	428
Lowland Mixed Forest	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	19
Lowland Shrub	523	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	523
Lowland Spruce/Fir	0	0	0	0	0	0	0	143	0	3	103	7	0	0	0	0	0	0	255
Marsh	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Natural Mixed Pines	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	28
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	97	0	0	0	0	0	0	0	97
Paper Birch	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	15
Planted Mixed Pines	0	0	0	0	0	0	0	0	56	0	0	0	0	0	0	0	0	0	56
Sand, Soil	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Tamarack	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Treed Bog	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Upland Conifers	0	0	0	0	0	0	0	5	6	0	0	0	0	0	0	0	0	0	11
Upland Mixed Forest	0	0	11	0	0	0	0	16	0	170	10	0	0	0	0	0	0	0	207
Urban	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Water	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Total	692	0	149	449	37	63	6	234	391	429	297	7	0	0	0	0	0	0	2749



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 152

Total Compartment Acres: 2,752

Commercial Harvest - 258
 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	47	0	0	0	0	0	0	0	0	47
Lowland Spruce/Fir	99	0	0	0	0	0	0	0	0	99
Northern Hardwood	0	97	0	0	0	0	0	0	0	97
Upland Conifers	5	0	0	0	0	0	0	0	0	5
Upland Mixed Forest	10	0	0	0	0	0	0	0	0	10
Total	161	97	0	0	0	0	0	0	0	258

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	258	0	0	0	0	0	0	0	0	258
Next Step	0	47	0	0	0	0	258	0	0	305
Total	258	47	0	0	0	0	258	0	0	563



Stand Name	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:

88	41151088-Cut	10.5	4113 - R.Maple, Conifer	Sawtimber Well	90	81-110	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
<p><u>Prescription</u> Select harvest to an average 85 BA while creating or enhancing regeneration gaps per the complete marker. Try to advance hemlock, yellow birch, black cherry, and white pine, both in terms of growth and regeneration. Designate all merchantable balsam fir to be cut.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red maple, sugar maple, black cherry, yellow birch, paper birch, beech, balsam fir, white spruce, white pine, hemlock</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

1	41152001-Cut	22.6	4113 - R.Maple, Conifer	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
<p><u>Prescription</u> Select harvest to an average 85 BA while creating or enhancing regeneration gaps per the complete marker. Try to advance hemlock, yellow birch, black cherry, and white pine, both in terms of growth and regeneration. Designate all merchantable balsam fir to be cut.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red maple, sugar maple, yellow birch, black cherry, paper birch, beech, hemlock, white pine, balsam fir, white spruce</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

3	41152003-Cut	14.4	4113 - R.Maple, Conifer	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
<p><u>Prescription</u> Select harvest to an average 85 BA while creating or enhancing regeneration gaps per the complete marker. Try to advance hemlock, yellow birch, black cherry, and white pine, both in terms of growth and regeneration. Designate all merchantable balsam fir to be cut. Black out 0.4 acre line and marked trees in adjacent stand #2 Q6 to the west.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red maple, sugar maple, yellow birch, paper birch, beech, hemlock, white pine, white spruce, balsam fir</p> <p><u>Other Comment:</u> Boundary line is from 2013 and was 12.4 acres so acreage may vary. The south and southeast corner were cut off along with a spot on the west line. This can be reevaluated and line changed. Refresh all paint and mark more trees if needed.</p> <p>The south line may have been moved north and painted red in 2013.</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
11 41152011-Cut	30.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
<p><u>Prescription Specs:</u> Select harvest to an average 85 BA while creating or enhancing regeneration gaps per the complete marker. Try to advance hemlock, yellow birch, black cherry, and white pine, both in terms of growth and regeneration. Designate all merchantable balsam fir to be cut.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> red maple, sugar maple, yellow birch, paper birch, hemlock, black cherry, beech, white pine, white spruce, balsam fir</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
19 41152019-Cut	9.7	4319 - Mixed Upland Forest	Poletimber Well	91	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut with retention all merchantable trees except leave all white pine, hemlock, and yellow birch. Within the retention thin the black cherry to allow for canopy growth.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> black cherry, balsam fir, maple, paper birch, yellow birch, hemlock, white pine, white spruce, beech</p> <p><u>Other Comment:</u> Acreage may vary as the northeast part of the stand may have little volume and contains the most advanced regeneration. Line determination there can be made during prep.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
48 41152048-Cut	5.1	429 - Mixed Upland Conifers	Poletimber Medium	69	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut all merchantable trees but don't cut hemlock, cedar, or oak if found. Also leave white pine for seed source. This sale was on proposal in 2013 the south yellow line will need repainting. The north line will need red paint and black out the red paint to the north that is down in the lowland black spruce.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> black spruce, paper birch, aspen, white pine, balsam fir, hemlock, red pine, red maple</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
53	41152053-Cut	46.7	42220 - Natural Jack Pine	Poletimber Well	83	51-80	Harvest	Clearcut with Retention	42121 - Planted Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear cut with retention all merchantable species expect for hemlock and oak if found. Suggested retention area is identified within the treatment. Mark some white pine between cruise points as reserve and seed trees.</p> <p><u>Specs:</u></p> <p>If scarification fails, trench and plant.</p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> jack pine, black spruce, white pine, balsam fir, white spruce, tamarack, aspen, maple, red pine, hemlock</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 /2022</p>											
54	41152054-Cut	99.4	6122 - Black Spruce	Poletimber Well	92	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> 2013 YOE Treatment - Stand currently under contract.</p> <p><u>Specs:</u></p> <p>Treatment => Harvest all species but leave retention patches scattered through out the stand. Do not cut any hemlock that may be present. Also, require whole tree chipping, and if the sale doesn't sell, abolish the chipping requirement.</p> <p>Retention => Scattered retention patches of spruce.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> black spruce, tamarack, cedar, aspen, paper birch, red maple, white spruce, balsam fir</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 /2022</p>											
85	41152085-Cut	29.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
<p><u>Prescription</u> Select harvest to an average 85 BA while creating or enhancing regeneration gaps per the complete marker. Try to advance hemlock, yellow birch, black cherry, and white pine, both in terms of growth and regeneration. Designate all merchantable balsam fir to be cut.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red maple, sugar maple, yellow birch, black cherry, beech, balsam fir, hemlock, white pine, white spruce, paper birch</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 /2022</p>											

Total Treatment Acreage Proposed: 268.7

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 152
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		4A	5B	5C	3J	5D	5E	
192	184	8	0	Aspen			8				
11	11	0	0	Bog							
28	28	0	0	Hemlock							
37	37	0	0	Herbaceous Openland			0				
56	54	0	1	Jack Pine							1
16	16	0	0	Low-Density Trees							
253	247	0	6	Lowland Aspen/Balsam Poplar					6		
412	154	226	33	Lowland Conifers	45		181			33	
428	407	21	0	Lowland Deciduous	21						
19	19	0	0	Lowland Mixed Forest							
523	469	0	54	Lowland Shrub					54		
256	242	11	3	Lowland Spruce/Fir			11				3
11	11	0	0	Marsh							
28	28	0	0	Natural Mixed Pines							
97	97	0	0	Northern Hardwood							
15	0	15	0	Paper Birch	15						
56	56	0	0	Planted Mixed Pines							
5	5	0	0	Sand, Soil			0				
3	3	0	0	Tamarack							
53	53	0	0	Treed Bog							
11	11	0	0	Upland Conifers							
206	195	11	0	Upland Mixed Forest		11					0
20	20	0	0	Urban			0				
16	16	0	0	Water							
2,752	2,364	291	97	Total Forested Acres	81	11	200	60	33		5
	86%	11%	4%	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	87	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 152
Year of Entry: 2023

2	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for proposed harvest. Thinning permitted within the area for the long term health of the mature black cherry.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for proposed timber sale to northeast.							
5	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for proposed timber sale.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
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Compartment: 152
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8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	79	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5D: Unproductive Forest Land	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5D: Unproductive Forest Land	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	4A: No Markets Available for these Forest Products	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 152
Year of Entry: 2023

14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5B: Maintain for regeneration purposes	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	4A: No Markets Available for these Forest Products	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	4A: No Markets Available for these Forest Products	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	4A: No Markets Available for these Forest Products	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 152
Year of Entry: 2023

20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	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
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1	4113 - R.Maple, Conifer	Sawtimber Well	22.6	90	111-140	N/A	Black cherry has rapidly died off with many still standing and others quickly declining.																																																																
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2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	5.0	76	51-80	N/A																																																
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3	4113 - R.Maple, Conifer	Sawtimber Well	14.4	90	111-140	N/A	Stand was on proposal in 2013 and went untreated.																																														
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4	4312 - Hemlock, Mixed Deciduous	Poletimber Medium	5.9	81	1-50	N/A	The stand was last harvested under TS# 034-03. Regeneration doing good.																																						
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5	6224 - Treed Bog	Nonstocked	5.0		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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6	429 - Mixed Upland Conifers	Poletimber Well	5.8	71	81-110	N/A	Two high ground peninsulas with dense lowland hemlock in the center.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Sapling/Pole	4	
Black Spruce	5	Pole	6	
White Pine	30	Log/Pole	12	
Red Maple	15	Pole	8	
Hemlock	45	Pole	7	71

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Hemlock	Medium	Variable	Sapling
Red Maple	Low	>20 feet	Sapling

7	500 - Water	Nonstocked	6.7		Unspecified	No	
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8	4133 - Aspen, Mixed Pine	Sapling Well	33.4	23	Immature	N/A	This is a sapling sized aspen stand that was harvested around 1999, Logging roads built into this stand from previous timber harvests were handplanted with red pine which is growing well.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	3	Sapling	2	
Black Cherry	8	Sapling	2	
Paper Birch	5	Sapling	2	
Red Pine	15	Sapling	1	
Quaking Aspen	58	Sapling/Pole	3	23
Hemlock	3	Sapling	3	
Yellow Birch	3	Sapling	2	
White Pine	5	Sapling	4	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	< 5 feet	Sapling
Tag Alder	Medium	Variable	Tall Shrub
Red Pine	Low	< 5 feet	Sapling
Hemlock	Low	< 5 feet	Sapling
Quaking Aspen	High	5 - 10 feet	Sapling
Black Cherry	Medium	5 - 10 feet	Sapling

9	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	42.6	22	Immature	N/A	This is a lowland forest with a lot of tag alder, black ash, and water. It was cut around 1999 under TS # 02-96 and has been regenerating since.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Sapling	2	
White Pine	5	Log	14	
Quaking Aspen	15	Sapling	2	
Black Ash	20	Sapling	2	22
Yellow Birch	5	Sapling	2	
Northern White Cedar	5	Sapling	4	
Red Maple	14	Sapling	2	
Black Spruce	12	Sapling	3	
Black Cherry	14	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	High	10 - 20 feet	Sapling
Northern White Cedar	Low	>20 feet	Sapling
Red Maple	Medium	5 - 10 feet	Pole
Black Cherry	Medium	5 - 10 feet	Pole
Black Spruce	Low	5 - 10 feet	Sapling
Aspen (spp.)	Low	Variable	Sapling

10	6224 - Treed Bog	Nonstocked	2.4		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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11 4112 - Maple, Beech, Cherry Association Sawtimber Well 30.7 90 111-140 N/A Black cherry is healthier than in the stands to the west.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	3	Pole/Log	9		Balsam Fir	High	>20 feet	Sapling
Balsam Fir	5	Pole	8		White Pine	Trace	Variable	Sapling
White Pine	4	Log/XLog	16		Beech	Trace	Variable	Sapling
Yellow Birch	3	Pole	8		Black Cherry	Trace	Variable	Sapling
Black Cherry	5	Log/Pole	10		Red Maple	Medium	Variable	Sapling
Red Maple	75	Pole/Log	9	90	Hemlock	Low	Variable	Sapling
Hemlock	5	Log/Pole	12					

12 6122 - Black Spruce Poletimber Well 37.5 62 51-80 N/A This is a spruce stand with mostly submerchantable trees that will be growing into the next size class over the next 10 - 20 years.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	15	Sapling/Pole	5		Northern White Cedar	Medium	10 - 20 feet	Sapling
Paper Birch	5	Sapling	3		Labrador Tea	Medium	< 5 feet	Tall Shrub
White Pine	3	Pole	9		Black Spruce	Medium	>20 feet	Sapling
Red Maple	3	Sapling	3		Birch (spp.)	Low	>20 feet	Sapling
Tamarack	5	Pole	6		Balsam Fir	Low	Variable	Sapling
Black Spruce	69	Sapling/Pole	5	62	Serviceberry (Juneberry)	Medium	< 5 feet	Sapling

13 6128 - Lowland Coniferous, Mixed Poletimber Well 9.6 82 111-140 N/A This stand contains cedar with other lowland tree species mixed in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Sapling/Pole	4		Black Spruce	Low	< 5 feet	Sapling
Balsam Fir	10	Sapling/Pole	4		Tag Alder	Medium	< 5 feet	Tall Shrub
Hemlock	10	Pole	8		Balsam Fir	Medium	< 5 feet	Sapling
Paper Birch	15	Pole/Log	5		Red Maple	Medium	10 - 20 feet	Sapling
White Pine	10	XLog/Log	14					
Red Maple	15	Pole/Log/Sap	9					
Northern White Cedar	30	Pole	7	82				

14 6224 - Treed Bog Nonstocked 9.8 Unspecified No

15 42350 - Upland Hemlock Poletimber Well 22.3 86 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	1	Pole	8		Hemlock	Medium	Variable	Sapling
Black Spruce	5	Pole	7		Balsam Fir	Medium	Variable	Sapling
Yellow Birch	3	Log/Pole	16		Red Maple	Low	>20 feet	Sapling
White Pine	14	XLog/Log	18					
Red Maple	12	Pole	7					
Hemlock	65	Pole	9	86				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	6112 - Lowland Aspen	Sapling Well	21.4	20	Immature	N/A	This stand was harvested in 2002 under TS # 02-96. The stand is regenerating naturally back to an aspen stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	3	Sapling/Pole	3	
Paper Birch	9	Sapling	1	
Northern White Cedar	5	Sapling	1	
Quaking Aspen	68	Sapling	2	20
White Pine	4	Sapling/Pole	4	
Red Maple	8	Sapling	1	
Black Spruce	3	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	< 5 feet	Sapling
Black Spruce	Low	< 5 feet	Sapling
Tamarack	Low	< 5 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling

17	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	27.9	82	1-50	N/A	This is a sapling-sized tree, wet, and lowland area.
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Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	25	Sapling/Pole	4	
Black Spruce	25	Sapling/Pole	4	
Northern White Cedar	30	Sapling/Pole	4	82
Red Maple	20	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	< 5 feet	Tall Shrub
Black Spruce	Medium	10 - 20 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling
Tamarack	Low	10 - 20 feet	Sapling

18	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	229.5	71	81-110	N/A	A few areas of small, isolated higher ground containing mature hemlock.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	27	Pole	7	71
Black Ash	24	Pole/Sapling	6	
Black Spruce	3	Pole/Sapling	6	
White Spruce	1	Log/Pole	12	
Balsam Fir	10	Pole/Sapling	5	
Hemlock	1	Log	12	
Red Maple	24	Pole/Sap/Log	7	
Northern White Cedar	10	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Medium	>20 feet	Sapling
Tag Alder	Medium	< 5 feet	Tall Shrub
Northern White Cedar	Low	Variable	Sapling
Red Maple	Medium	>20 feet	Sapling

19	4319 - Mixed Upland Forest	Poletimber Well	10.1	91	81-110	N/A	Southeast 1/3 of stand is dense black cherry. There's no room for canopy growth and the black cherry in surrounding stands is dying back.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	44	Pole	9	91
White Pine	2	Log	14	
Balsam Fir	40	Pole	6	54
Yellow Birch	1	XLog/Log/Pole	18	
Red Maple	10	Pole	8	
Hemlock	3	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	>20 feet	Sapling
Black Cherry	Low	10 - 20 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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20 6128 - Lowland Coniferous, Mixed Deciduous Sapling Poor 44.6 82 1-50 N/A This is a lowland area that is wet with sapling to pole-sized cedar, black spruce, and tamarack.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	25	Sapling/Pole	4		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack	25	Sapling/Pole	4		Northern White Cedar	Low	< 5 feet	Sapling
Northern White Cedar	30	Pole/Sapling	5	82	Black Spruce	Low	Variable	Sapling
Red Maple	20	Sapling	3		Red Maple	Low	Variable	Sapling

21 6116 - Lowland Birch Poletimber Well 5.0 79 81-110 N/A Birch is healthy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
Paper Birch	62	Pole	8	79	Black Ash	Medium	5 - 10 feet	Sapling
Black Spruce	5	Pole	7		Red Maple	Low	>20 feet	Sapling
Red Maple	25	Pole	8					
Northern White Cedar	3	Pole	8					

22 4319 - Mixed Upland Forest Sawtimber Well 169.6 86 81-110 N/A This stand was thinned 2004-2006 under TS # 034-03. Regeneration looks good, good amount of hemlock regeneration.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	Log/XLog	14		Black Cherry	Low	10 - 20 feet	Sapling
Yellow Birch	3	Log/Pole/XLog	14		White Pine	Trace	< 5 feet	Sapling
Black Cherry	3	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
Beech	2	Log/Pole	14		Red Maple	High	10 - 20 feet	Sapling
Balsam Fir	5	Pole	6		Hemlock	Medium	Variable	Sapling
Red Maple	47	Log/Pole	10	86				
Hemlock	38	Pole/Log	9					

23 6112 - Lowland Aspen Sapling Well 68.6 26 1-50 N/A This stand was cut around 1996. It contains mostly aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Sapling/Pole	4		Red Maple	Medium	10 - 20 feet	Sapling
Black Cherry	7	Sapling	4		Black Cherry	Medium	< 5 feet	Sapling
Paper Birch	5	Sapling	4		White Pine	Medium	10 - 20 feet	Sapling
White Pine	15	Sapling/Pole	4		Quaking Aspen	High	10 - 20 feet	Sapling
Red Maple	10	Sapling	4		Paper Birch	Low	10 - 20 feet	Sapling
Black Spruce	5	Sapling/Pole	4					
Quaking Aspen	50	Sapling/Pole	4	26				
Hemlock	3	Sapling	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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24 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 5.5 82 81-110 N/A This is a little patch of hemlock and white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	35	Log/XLog	14		White Pine	Medium	>20 feet	Sapling
Quaking Aspen	10	Pole	5		Balsam Fir	High	< 5 feet	Sapling
Hemlock	40	Log/XLog	14	82	Black Spruce	Low	>20 feet	Sapling
Red Maple	15	Pole	5		Red Maple	Low	>20 feet	Sapling
					Hemlock	Medium	>20 feet	Sapling

25 622 - Lowland Shrub Nonstocked 13.7 Unspecified No

26 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 9.7 72 111-140 N/A This stand contains a lot of large cedar with over mature aspen and paper birch.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Sapling/Pole	4		Black Ash	High	>20 feet	Sapling
Paper Birch	10	Pole/Sapling	6		Balsam Fir	Medium	< 5 feet	Sapling
Tamarack	10	Pole/Sapling	6		Red Maple	Medium	>20 feet	Sapling
Balsam Fir	5	Sapling/Pole	4					
Black Ash	20	Sapling/Pole	4					
Red Maple	5	Sapling/Pole	4					
Northern White Cedar	45	Pole/Log	9	72				

27 622 - Lowland Shrub Nonstocked 48.9 Unspecified No

28 6122 - Black Spruce Poletimber Medium 105.2 69 51-80 N/A Less dense than spruce stand to the east.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	70	Pole/Sapling	5	69	Balsam Fir	Low	Variable	Sapling
Balsam Fir	3	Pole/Sapling	5		Black Spruce	Medium	>20 feet	Sapling
Paper Birch	5	Pole/Sapling	6		Northern White Cedar	Trace	< 5 feet	Sapling
Tamarack	5	Pole	8		Red Maple	Low	Variable	Sapling
Red Maple	5	Pole/Sapling	6		Tag Alder	Medium	< 5 feet	Tall Shrub
Northern White Cedar	12	Pole	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29 6119 - Mixed Lowland Deciduous Forest Poletimber Well 4.7 79 81-110 N/A Paper birch is healthy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole	9		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	5	Pole	7		Red Maple	Medium	>20 feet	Sapling
Paper Birch	57	Pole	8	79				
Northern White Cedar	3	Pole	6					
Red Maple	25	Pole	8					
Black Spruce	5	Pole	7					

30 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 38.5 71 51-80 N/A This is a lowland birch stand that was set up for harvest before like the other nearby lowland birch stands, but treatment limiting factors such as water and market conditions didn't allow it.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole/Sapling	5		Black Ash	Medium	>20 feet	Sapling
Paper Birch	25	Pole	7		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	5	Pole	8		Red Maple	Low	>20 feet	Sapling
Quaking Aspen	5	Log/Pole	10					
Black Ash	10	Pole/Sapling	5					
Red Maple	35	Pole	7	71				
Black Spruce	5	Sapling/Pole	4					

31 6112 - Lowland Aspen Sapling Well 67.1 23 Immature N/A This stand was harvested in 1999 and is regenerating back to an aspen stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	76	Sapling	2	23	White Pine	Low	< 5 feet	Sapling
Black Spruce	5	Sapling	2					
White Pine	12	Log/XLog	16					
Paper Birch	5	Sapling	2					
Black Cherry	2	Sapling	2					

32 6118 - Lowland Deciduous with Cedar Sapling Well 19.3 41 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	20	Pole	9	91	Red Maple	Medium	>20 feet	Sapling
Black Spruce	15	Sapling/Pole	4		Balsam Fir	Medium	Variable	Sapling
Black Cherry	5	Sapling/Pole	4		Tag Alder	Medium	< 5 feet	Tall Shrub
Paper Birch	10	Pole	7		Northern White Cedar	Trace	< 5 feet	Sapling
Black Ash	5	Sapling/Pole	4		Black Spruce	Low	5 - 10 feet	Sapling
Red Maple	40	Sapling/Pole	4	41				
Tamarack	5	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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33 6122 - Black Spruce Poletimber Well 3.2 87 51-80 N/A This is a small pocket of black spruce probably left as retention since a lot of the stands to the east were harvested.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	5	Log/Pole	12		Labrador Tea	Low	< 5 feet	Tall Shrub
White Pine	10	Log/XLog	12		White Pine	Medium	< 5 feet	Sapling
Black Spruce	85	Pole/Sapling	5	87	Red Maple	Medium	Variable	Sapling

34 6116 - Lowland Birch Poletimber Well 10.0 79 81-110 N/A Birch is healthy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Pole	7		Black Ash	Medium	5 - 10 feet	Sapling
Paper Birch	62	Pole	8	79	Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen	5	Log/Pole	10		Red Maple	Low	>20 feet	Sapling
Red Maple	25	Pole	8					
Northern White Cedar	3	Pole	8					

35 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 9.4 71 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole	6		Balsam Fir	Medium	< 5 feet	Sapling
Quaking Aspen	18	Pole	8		Black Spruce	Low	10 - 20 feet	Sapling
Black Ash	3	Sapling	4		Red Maple	Medium	10 - 20 feet	Sapling
Paper Birch	30	Pole	7	71	Paper Birch	Low	10 - 20 feet	Sapling
Hemlock	4	Pole	5					
Red Maple	20	Pole/Sapling	7					
Black Spruce	10	Sapling/Pole	4					

36 500 - Water Nonstocked 2.6 Unspecified No

37 6129 - Mixed Coniferous Lowland Forest Sawtimber Well 87.0 92 81-110 N/A This stand is healthy, the white pine makes it a Q9 stand. Diameters of the black spruce and tamarack vary. There are small areas of 51-80 BA consistently throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	3	Pole/Log	9		White Pine	Low	< 5 feet	Sapling
White Pine	25	Log/XLog/Pole	16		Black Spruce	Low	Variable	Sapling
Balsam Fir	1	Pole	6		Hemlock	Trace	Variable	Sapling
Red Pine	1	Log	11		Balsam Fir	Low	Variable	Sapling
Paper Birch	2	Pole	7		Red Maple	Low	10 - 20 feet	Sapling
Tamarack	14	Pole	8					
Jack Pine	1	Pole/Log	9					
Red Maple	5	Pole	7					
Black Spruce	47	Pole	8	92				
Hemlock	1	Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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38 310 - Herbaceous Openland Nonstocked 13.2 Unspecified No

39 6117 - Lowland Deciduous, Mixed Coniferous Sapling Well 25.7 31 1-50 N/A Less canopy closure and more black ash in southern 1/4 of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	7		Tag Alder	Medium	< 5 feet	Tall Shrub
Red Maple	45	Sapling/Pole	3	31	Black Spruce	Low	Variable	Sapling
Black Ash	25	Sapling/Pole	3		Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar	5	Pole	8		Red Maple	Medium	Variable	Sapling
Balsam Fir	15	Sapling/Pole	4		Black Ash	Low	10 - 20 feet	Sapling

40 4130 - Aspen Sapling Well 70.9 15 Immature N/A Stand was harvested in 2007 M-28 Aspen 41-018-03. Good regeneration.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	3	Log/Pole	10		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	80	Sapling	2	15				
Red Maple	2	Sapling/Pole	1					
Jack Pine	2	Pole	6					
Black Cherry	3	Sapling	2					
Balsam Fir	10	Pole/Sapling	6					

41 500 - Water Nonstocked 6.7 Unspecified No

42 6224 - Treed Bog Nonstocked 4.1 Unspecified No

43 6224 - Treed Bog Nonstocked 25.1 Unspecified No Isolated small aspen clusters.

44 6129 - Mixed Coniferous Lowland Forest Poletimber Well 83.8 87 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	20	Pole	7		Tamarack	Medium	10 - 20 feet	Sapling
Black Spruce	35	Pole/Sapling	7	87	Black Spruce	Medium	< 5 feet	Sapling
White Pine	25	Log/XLog	13		White Pine	Medium	Variable	Sapling
Paper Birch	10	Pole/Sapling	5		Paper Birch	Low	10 - 20 feet	Sapling
Jack Pine	10	Pole/Sapling	5		Tag Alder	Medium	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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45 6119 - Mixed Lowland Deciduous Forest Poletimber Well 16.4 79 81-110 N/A Paper birch is healthy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole	9		Balsam Fir	Medium	Variable	Sapling
Red Maple	25	Pole	8		Red Maple	Medium	>20 feet	Sapling
Black Spruce	5	Pole	7					
Balsam Fir	5	Pole	7					
Paper Birch	57	Pole	8	79				
Northern White Cedar	3	Pole	6					

46 4130 - Aspen Sapling Well 26.9 18 Immature N/A This area was harvested along with the surrounding area from 2004-2005 under TS# 040-02. There is a lot of residual white pine left. This stand is naturally regenerating.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Pole/Log/Sap	9		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	90	Sapling	3	18				

47 6224 - Treed Bog Nonstocked 6.9 Unspecified No

48 429 - Mixed Upland Conifers Poletimber Medium 5.1 69 51-80 N/A Paper birch is declining.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	3	Log	14		Quaking Aspen	Low	10 - 20 feet	Sapling
Hemlock	1	Pole	8		Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	20	Pole	9		White Pine	Trace	Variable	Sapling
Red Pine	2	Log/Pole	10		Black Spruce	Medium	Variable	Sapling
Black Spruce	50	Pole/Sapling	7	69	Balsam Fir	Low	Variable	Sapling
Balsam Fir	5	Pole	6					
Red Maple	4	Pole	7					
White Pine	15	Log/XLog	16					

49 622 - Lowland Shrub Nonstocked 4.9 Unspecified No

50 4130 - Aspen Sapling Medium 3.1 23 Immature N/A This stand was cut in 1999.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Sapling	3	23	Balsam Fir	Low	5 - 10 feet	Sapling
White Pine	5	Sapling	3					
Jack Pine	5	Sapling	3					

51 6126 - Lowland Jack Pine Sapling Medium 7.4 23 Immature N/A Stand was cut in 1999.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Sapling/Pole	4		Balsam Fir	Low	5 - 10 feet	Sapling
Jack Pine	85	Sapling	3	23				
Quaking Aspen	10	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52 6119 - Mixed Lowland Deciduous Forest Sapling Well 31.4 46 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Sapling/Pole	4		Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	5	Sapling	4		Black Spruce	Low	Variable	Sapling
Northern White Cedar	8	Pole	8					
Red Maple	42	Sapling/Pole	4	46				
Black Ash	30	Sapling	2					

53 42220 - Natural Jack Pine Poletimber Well 48.2 83 51-80 N/A

Jack pine is over mature and dying. The western portion has higher basal area and contains more black spruce.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log/XLog	16		Red Maple	Low	>20 feet	Sapling
Black Spruce	10	Pole	8		Black Spruce	Trace	< 5 feet	Sapling
Jack Pine	66	Pole/Log	9	83	White Pine	Trace	< 5 feet	Sapling
Tamarack	3	Pole	7					
Red Maple	5	Pole	7					
Quaking Aspen	5	Pole	8					
Red Pine	1	Log	14					

54 6122 - Black Spruce Poletimber Well 102.5 92 81-110 N/A

The stand is starting to break up and should be treated.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	2	Pole	8		Red Maple	Trace	>20 feet	Sapling
Black Spruce	88	Pole	7	92	Paper Birch	Trace	>20 feet	Sapling
White Pine	1	Log	16		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch	3	Pole/Sapling	6		Black Spruce	Low	>20 feet	Sapling
Northern White Cedar	1	Log/Pole	12					
Tamarack	5	Log/Pole	10					

55 6229 - Mixed lowland shrub Nonstocked 368.6 Unspecified No

56 6128 - Lowland Coniferous, Mixed Deciduous Sapling Medium 13.7 24 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	25	Sapling	3		Jack Pine	Medium	< 5 feet	Sapling
Tamarack	25	Sapling	3		Black Spruce	Low	< 5 feet	Sapling
Jack Pine	20	Sapling	3		Quaking Aspen	Medium	< 5 feet	Sapling
Quaking Aspen	30	Sapling	3	24	Tamarack	Medium	< 5 feet	Sapling

57 6225 - Bog Nonstocked 10.5 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58 6229 - Mixed lowland shrub Nonstocked 31.4 Unspecified No

59 6122 - Black Spruce Poletimber Medium 7.4 102 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Log	12		Paper Birch	Low	10 - 20 feet	Sapling
White Pine	10	Log/XLog	14		Quaking Aspen	Low	10 - 20 feet	Sapling
Black Spruce	60	Pole/Sapling	6	102	Black Spruce	Medium	< 5 feet	Sapling
Jack Pine	10	Pole	7		Red Maple	Low	10 - 20 feet	Sapling
Tamarack	15	Pole/Sapling	7		Tamarack	Low	10 - 20 feet	Sapling

60 4133 - Aspen, Mixed Pine Poletimber Well 9.2 45 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	65	Pole/Sapling	5	45	Balsam Fir	Low	Variable	Sapling
White Pine	15	Pole/Sapling	5					
Red Pine	5	Log	14					
Jack Pine	15	Pole	5					

61 4130 - Aspen Sapling Well 12.9 18 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Sapling	2		Balsam Fir	Trace	< 5 feet	Sapling
Quaking Aspen	90	Sapling	2	18				
White Pine	5	Pole/Log/Sap	9					

This area was harvested along with the surrounding area from 2004-2005 under TS# 040-02. There is a lot of residual white pine left. This stand is naturally regenerating.

62 330 - Low-Density Trees Nonstocked 13.1 Unspecified No

63 6124 - Lowland Spruce-Fir Sapling Medium 102.9 22 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	XLog/Log	14		White Pine	Low	Variable	Sapling
Quaking Aspen	10	Sapling	1		Jack Pine	Low	>20 feet	Pole
White Spruce	55	Sapling/Pole	3	22	Red Maple	Low	5 - 10 feet	Sapling
Red Maple	10	Sapling	1		Aspen (spp.)	High	5 - 10 feet	Sapling
Jack Pine	15	Sapling	1		Black Spruce	Medium	5 - 10 feet	Sapling

This stand was clearcut under TS# 040-03. Presently the stand contains supercanopy white and red pine scattered about and also occurring in a few small pockets. There are also patches of jack pine, spruce, and tamarack. Most of the stand is in the sapling size class, which is mostly spruce. The stand was managed under FTP # C41-1148, but no trenching or planting occurred and the stand is naturally regenerating on its own.

64 3102 - Grass Nonstocked 3.4 Unspecified No

65 122 - Road/Parking Lot Nonstocked 20.1 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
66	42140 - Planted Mixed Pine	Sawtimber Medium	55.6	72	81-110	N/A	This area was thinned under TS# 040-03. More trees were left along the Drigg's River. Red and Jack pine trench and planting cultivation work was done in the stand under FTP # C41-1148. [3-11-09] Area was trenched in 2008 and is ready for planting. It is unknown how many acres of this stand was actually done. [5/29/09] Planted only the red pine portion, no jack pine available. [8/2/10 JB] 2010 regen check for red pine was 740 trees/acre and 170 volunteer trees/acre.																																																											
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67	3105 - Mixed Upland Herbaceous	Nonstocked	17.6		Unspecified	Managed Opening																																																												
68	623 - Emergent Wetland	Nonstocked	5.2		Unspecified	No																																																												
69	330 - Low-Density Trees	Nonstocked	3.2		Unspecified	6126 - Lowland Jack Pine																																																												
70	6112 - Lowland Aspen	Poletimber Well	1.7	56	81-110	N/A	<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>3</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>14</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>6</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>60</td> <td>Pole</td> <td>7</td> <td>56</td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>7</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Spruce</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	3	Pole/Sapling	5		Red Maple	14	Pole/Sapling	5		Red Pine	6	Log	12		Quaking Aspen	60	Pole	7	56	Black Cherry	10	Pole/Sapling	6		White Spruce	7	Pole/Sapling	5		Sub-Canopy Species	Density	Avg. Height	Size	Tamarack	Low	10 - 20 feet	Sapling	Red Maple	Medium	5 - 10 feet	Sapling	Black Cherry	Medium	5 - 10 feet	Sapling	Quaking Aspen	Medium	5 - 10 feet	Sapling	White Spruce	Low	< 5 feet	Sapling
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71	42290 - Natural Mixed Pine	Poletimber Medium	27.6	62	51-80	N/A																																																												
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72	622 - Lowland Shrub	Nonstocked	41.2		Unspecified	No																																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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73 6112 - Lowland Aspen Sapling Well 69.9 20 Immature N/A This stand was harvested in 2002 under TS# 014-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Sapling/Pole	3		Tag Alder	Low	< 5 feet	Tall Shrub
Quaking Aspen	60	Sapling	2	20	Balsam Fir	Low	< 5 feet	Sapling
Paper Birch	8	Sapling	2					
Black Spruce	2	Pole	7					
Red Maple	10	Sapling	2					
Tamarack	5	Sapling	2					

74 6112 - Lowland Aspen Poletimber Well 4.0 56 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	61	Pole	7	56	Black Cherry	Medium	< 5 feet	Sapling
Tamarack	10	Pole/Sapling	5		Tamarack	Low	5 - 10 feet	Sapling
Red Pine	5	Pole	8		Red Maple	Medium	< 5 feet	Sapling
Red Maple	14	Pole/Sapling	5		Quaking Aspen	Medium	5 - 10 feet	Sapling
Black Cherry	10	Sapling/Pole	4					

75 4311 - Pine, Aspen Mix Poletimber Well 10.8 18 1-50 N/A Stand was harvested under TS # 040-03. There is sapling sized regeneration in the understory with supercanopy white and red pine. This stand was also under FTP # C41-1148. Area was not trenched nor planted, but is naturally regenerating. Schedule regeneration check next inventory cycle, 2013.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	45	Sapling/Pole	4	18	White Pine	Low	< 5 feet	Sapling
Jack Pine	5	Sapling/Pole	4		Balsam Fir	Low	< 5 feet	Sapling
White Spruce	10	Sapling/Pole	4		Black Cherry	Medium	10 - 20 feet	Sapling
Red Pine	35	Log/Pole/XLog	14	82	Black Spruce	Medium	5 - 10 feet	Sapling
White Pine	5	Log/XLog/Pole	14		Aspen (spp.)	Medium	10 - 20 feet	Sapling
					Jack Pine	Low	5 - 10 feet	Sapling

76 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 22.5 62 51-80 N/A This stand is a diverse stand with multiple tree species and varying basal areas.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	8	Pole	6		Black Spruce	Low	< 5 feet	Sapling
Quaking Aspen	20	Pole	6		Quaking Aspen	Medium	10 - 20 feet	Sapling
Red Pine	10	Log	14		Red Pine	Low	5 - 10 feet	Sapling
Black Spruce	35	Pole/Sapling	6	62	Tamarack	Low	10 - 20 feet	Sapling
Jack Pine	10	Pole	6		Paper Birch	Low	10 - 20 feet	Sapling
Paper Birch	10	Pole/Sap/Log	6		White Pine	Low	< 5 feet	Sapling
White Pine	7	Log/XLog	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
77	6112 - Lowland Aspen	Poletimber Well	4.3	47	51-80	N/A																																											
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78	710 - Sand, Soil	Nonstocked	3.9		Unspecified	No																																											
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81	4130 - Aspen	Poletimber Medium	8.3	82	51-80	N/A																																											
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82	310 - Herbaceous Openland	Nonstocked	3.2		Unspecified	No																																											
84	4130 - Aspen	Sapling Well	27.2	18	Immature	N/A	The logging roads within this stand were also hand planted with red pine.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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85	4112 - Maple, Beech, Cherry Association	Sawtimber Well	29.6	90	111-140	N/A	<p>BA area varies but there are many dense areas consistently through the stand that it averages 120 and would benefit from a thinning. There was more black cherry but many have died off and are still standing. The others are rapidly declining. There's enough log sized maple to classify as M9.</p> <p>[8/14/03 RFT] 5000 white pine and 4000 acorns were planted by inmates under FTP #W41-926.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Beech		2	Pole	8		Beech		Medium	Variable	Sapling	
Balsam Fir		4	Pole	7		Red Maple		Medium	Variable	Sapling	
White Pine		3	Log/XLog	16		White Pine		Low	< 5 feet	Sapling	
Black Cherry		5	Log/Pole	10		Hemlock		Low	Variable	Sapling	
Yellow Birch		1	Pole	9		Balsam Fir		Medium	Variable	Sapling	
Red Maple		75	Pole/Log	9	90	Yellow Birch		Low	>20 feet	Sapling	
Hemlock		10	Log	14							

86	623 - Emergent Wetland	Nonstocked	5.9		Unspecified	No	
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87	4319 - Mixed Upland Forest	Poletimber Well	15.8	66	81-110	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		10	Pole	6		Tag Alder		Low	< 5 feet	Tall Shrub
Hemlock		5	Log	14		Black Spruce		Low	5 - 10 feet	Sapling
Quaking Aspen		5	Pole	7		Red Maple		Low	10 - 20 feet	Sapling
Black Ash		5	Sapling/Pole	4						
Red Maple		20	Pole	7	66					
Northern White Cedar		20	Pole/Sapling	5						
Paper Birch		25	Pole	7	66					
Tamarack		10	Pole/Sapling	6						

88	6112 - Lowland Aspen	Sapling Well	15.7	20	Immature	N/A	This stand was harvested in 2002 under TS# 014-01.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		10	Sapling	2		Tag Alder		Low	< 5 feet	Tall Shrub
Quaking Aspen		60	Sapling	2	20	Balsam Fir		Low	< 5 feet	Sapling
Balsam Fir		15	Sapling/Pole	3						
Red Maple		10	Sapling	2						
Tamarack		5	Sapling	2						

89	622 - Lowland Shrub	Nonstocked	1.3	0	Unspecified	No	
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90	6121 - Tamarack	Sapling Well	3.0	23	Immature	N/A	This was a small unit of Ecklund Ponds Sale 41-67-95.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		1	Sapling	2		Balsam Fir		Trace	< 5 feet	Sapling
White Pine		1	Log	16						
Black Spruce		2	Sapling	2						
Balsam Fir		3	Sapling	2						
Tamarack		93	Sapling	2	23					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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91 6117 - Lowland Deciduous, Mixed Coniferous Sapling Well 11.1 31 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Pole	8		Tag Alder	Medium	< 5 feet	Tall Shrub
Paper Birch	10	Pole	7		Black Spruce	Low	Variable	Sapling
Balsam Fir	15	Sapling/Pole	4		Balsam Fir	Low	5 - 10 feet	Sapling
Red Maple	45	Sapling/Pole	3	31	Red Maple	Medium	Variable	Sapling
Black Ash	25	Sapling/Pole	3		Black Ash	Low	10 - 20 feet	Sapling

92 6139 - Mixed Lowland Forest Poletimber Medium 19.2 62 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	8	Pole	6		Quaking Aspen	Medium	10 - 20 feet	Sapling
Quaking Aspen	40	Pole	6	62	Red Pine	Low	5 - 10 feet	Sapling
Red Pine	10	Log	14		Black Spruce	Low	< 5 feet	Sapling
Black Spruce	10	Pole/Sapling	6	62	Tamarack	Low	10 - 20 feet	Sapling
Jack Pine	10	Pole	6		Paper Birch	Low	10 - 20 feet	Sapling
Paper Birch	15	Pole/Sap/Log	6		White Pine	Low	< 5 feet	Sapling
White Pine	7	Log/XLog	14					