



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32076

Entry Year 2022

Acreage: 1,704

County Marquette

Management Area: Dead Horse Moraines

Revision Date: 2020-07-23

Stand Examiner: Eric Brolin

Legal Description:

T. 43 N. - R. 25 W. Sections 1, 2, and 3

Identified Planning Goals:

Maintain forest health, diversity and sustainability while considering wildlife, fisheries, recreational and environmental needs and concerns.

Soil and topography:

Emmet-Escanaba complex, Onaway fine sandy loam, Shoepac-Trenary silt loam mostly on the flat to gently rolling uplands. Croswell-Deford complex on some of the lower flat areas. Carbondale-Tawas muck in the low, mostly flat swamps.

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

Large private ownership's include a central block, and areas along the north/northeast.

Unique Natural Features:

Potential for northern goshawk and red-shouldered hawk. Potential for eagle, osprey, and great blue heron rookery. Potential for moose and wolf (moose sign observed along north border, winter 2019). Potential for wood turtle. Potential for auricled tway-blade, veiny meadow rue, western dock, Farwell's water-milfoil, alternate leaved water-milfoil, and linear-leaved gentian along riparian areas. Potential for calypso orchid, rayless mountain ragwort, and ram's head lady's-slipper in conifer swamps. MNFI concern identified.

Archeological, Historical, and Cultural Features:

Remains of old logging camps in at least 3 spots within compartment. HAL concern identified.

Special Management Designations or Considerations:

Protection of riparian corridors along Escanaba River and Sawmill Creek.

Watershed and Fisheries Considerations:

Escanaba River, Big West Branch, and Sawmill Creek.

Wildlife Habitat Considerations:

Compartment 076 is found within the Dead Horse Moraines Management Area; on Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include Northern Hardwood, Aspen, and Mixed Lowland Conifer. This management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area. The most significant wildlife management issues in the management area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); course woody debris, early successional forest, and deer wintering complexes.

The following have been identified as featured species for the Dead Horse Moraines Management Area: black bear, pileated woodpecker, ruffed grouse, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest active sand/gravel pit is more than five miles away. Much of the compartment is covered by wetlands; potential for non-metallic mineral development in the compartment is likely limited. Abandoned, historic iron mines are located more than six miles north. The potential for iron ore or other metallic minerals beneath the compartment is unknown. There has been no documented past metallic mineral exploration within the compartment. Any metallic minerals beneath the compartment are buried beneath some thickness of Paleozoic sediments and would be more costly to mine compared to the resources historically mined at or near the surface. There are active state metallic mineral leases three miles west of the compartment. The

leases were just issued last year, and no plans to explore the state leases have been submitted. The state does not own all the mineral rights within the compartment. 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:

About 1/3 of the compartment has good access, although roads receive minimal to no maintenance. The rest of the compartment is blocked by large swamps or gated private lands.

Survey Needs:

Historic cut lines present but could not find survey corners in areas. May need corners along the north edge and central private block for proposed treatments.

Recreational Facilities and Opportunities:

This is an excellent area for fishing and hunting. The roads in this area are used heavily for canoe access to the Escanaba River – camping along the river is also popular.

Fire Protection:

Compartment is within the Gwinn protection area. Considerable response time and suppression efforts would be required if any natural wildfires were to occur within this compartment. Possibly over 1 hour travel from the Gwinn Field Office. Poor or gated private access in areas.

Additional Compartment Information:

There is a ford across the Escanaba River in Stand 54 that has been used for many years by locals. Attempts have been made to restrict ORV crossing with little/no success.

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**

Report 1 – Total Acres by Cover Type and Age Class

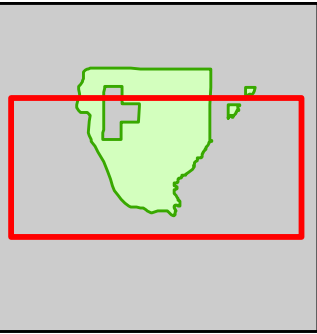


Age Class

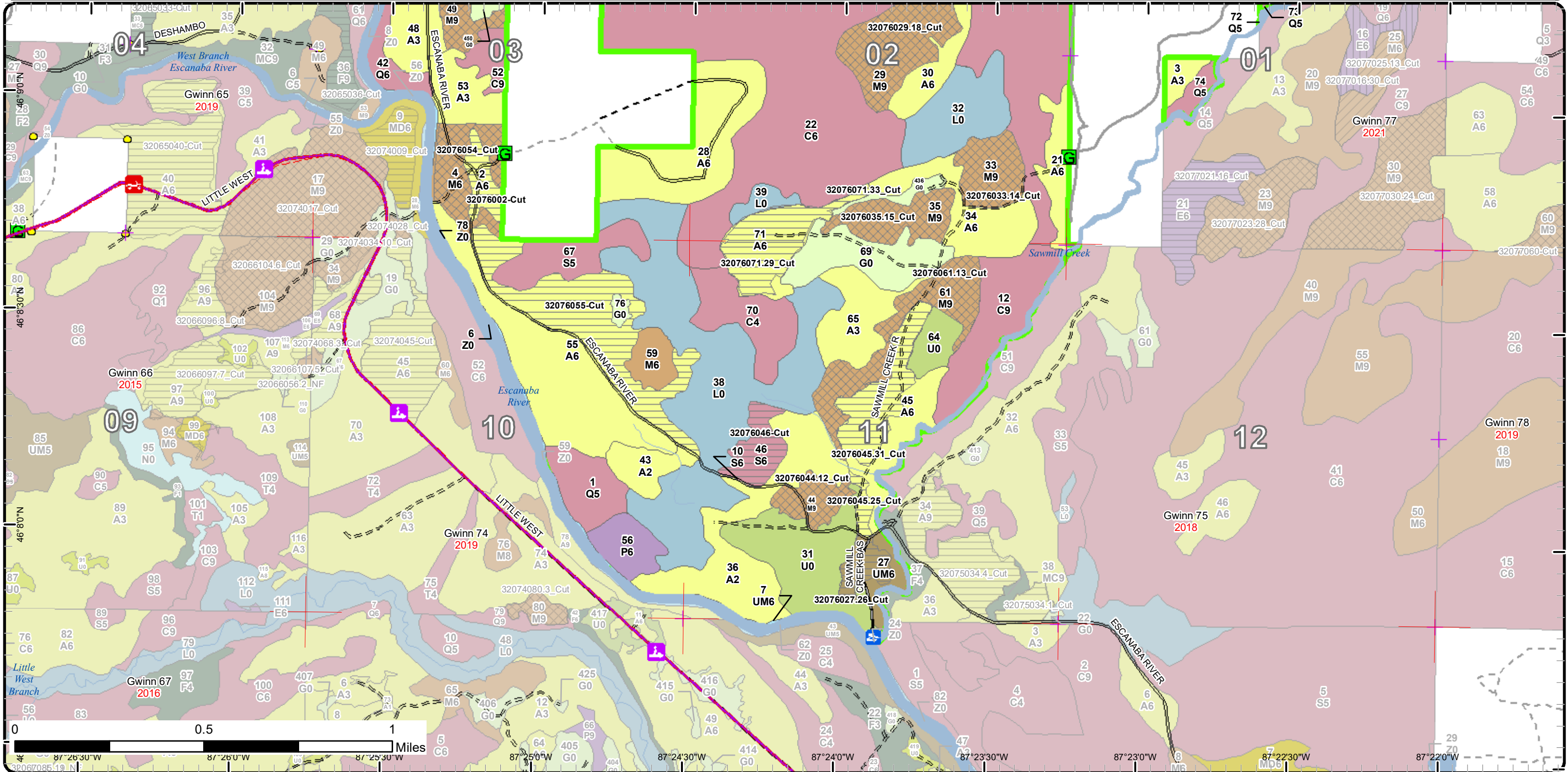
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	24	132	96	122	131	78	39	0	0	0	0	0	0	0	0	0	0	622
Cedar	0	0	0	0	0	0	0	0	0	0	9	67	406	0	0	0	0	0	482
Herbaceous Openland	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Conifers	0	0	0	0	0	0	0	0	20	11	0	0	0	0	0	0	0	25	56
Lowland Shrub	168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	168
Lowland Spruce/Fir	0	0	0	0	0	0	0	22	14	0	0	0	0	0	0	0	0	0	36
Northern Hardwood	0	0	0	0	0	0	0	0	124	11	12	0	0	0	0	0	10	32	189
Upland Mixed Forest	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	16
Upland Shrub	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Water	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Total	290	24	132	96	122	131	93	55	22	158	31	79	406	0	0	0	10	57	1706

Cover Type & Treatments Map

Compartment: 76
 T43N, R25W, Sec: 1-4
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2022
 Acres: 1703.8 GIS Calculated
 Examiner: Eric Brolin Map
 Revised: 3/3/2021 Map
 Phase: Post-Review

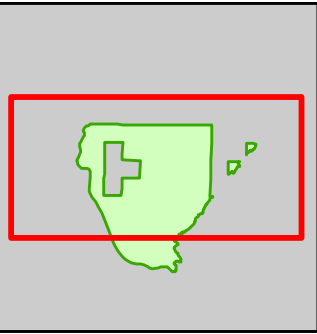


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- 🚗 ORV Routes
- 🚙 Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- G Gate
- B Boating Access Site
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub

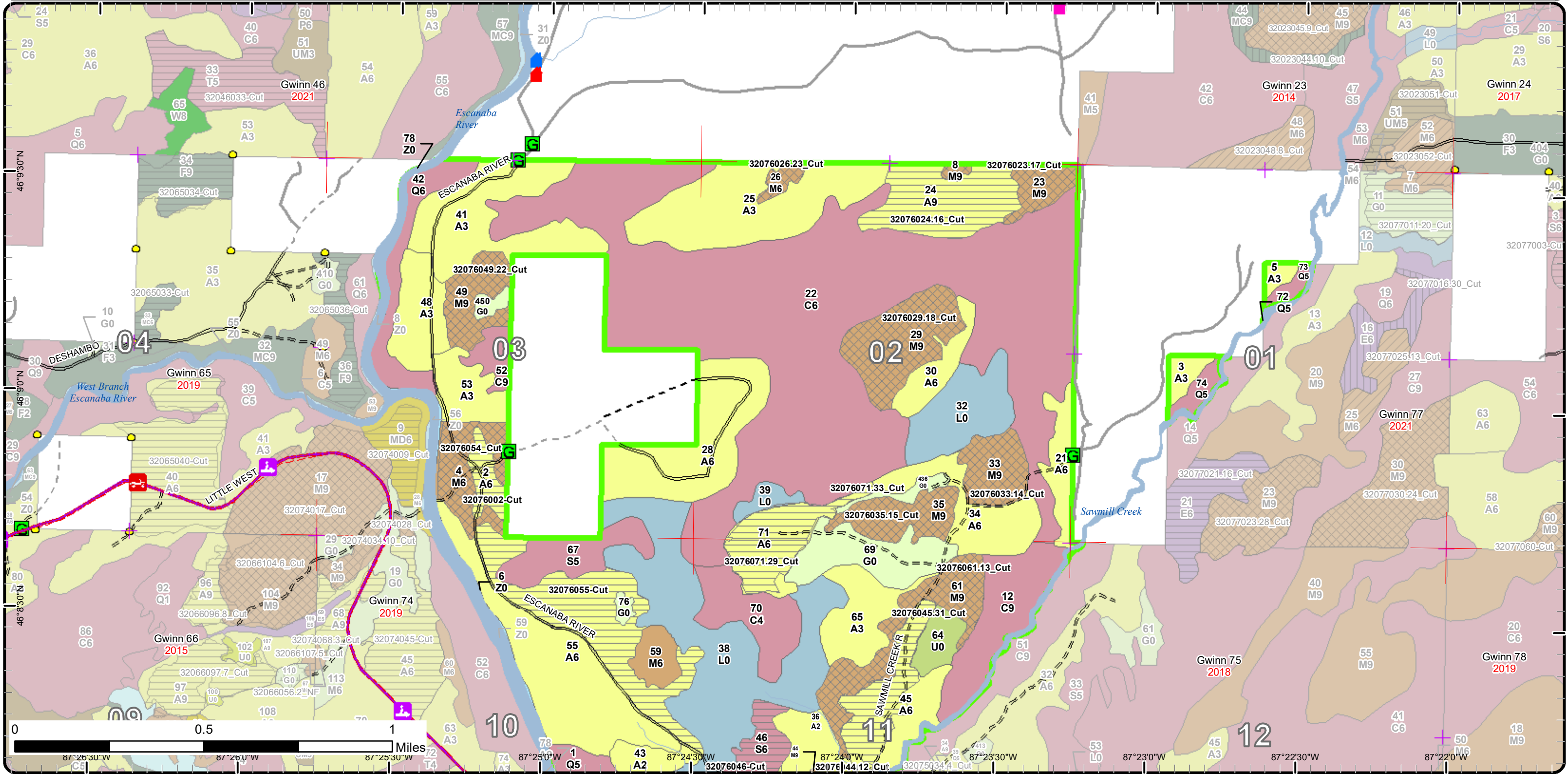


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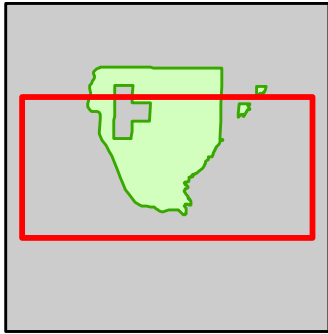


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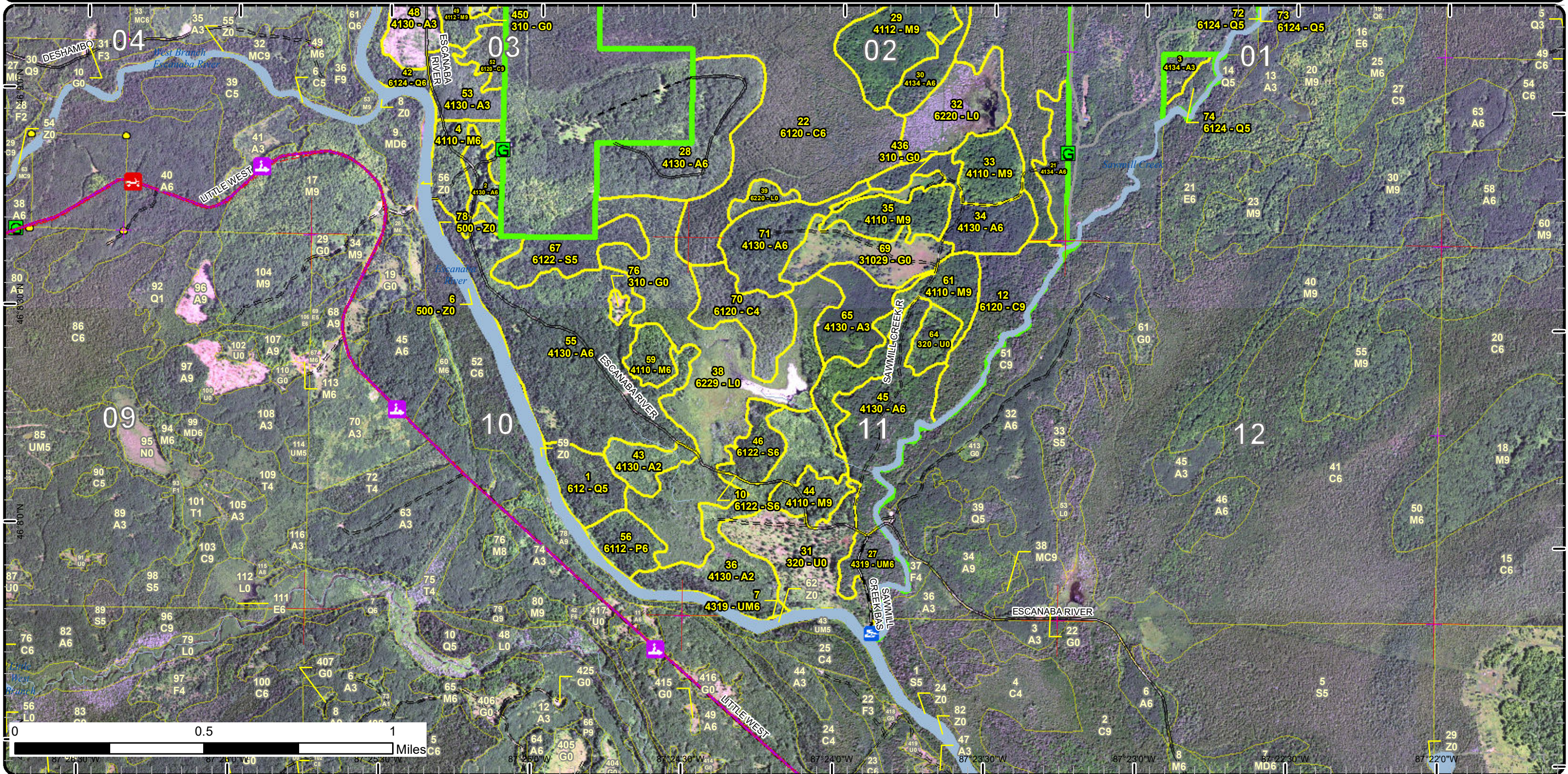


Stand Boundary Map

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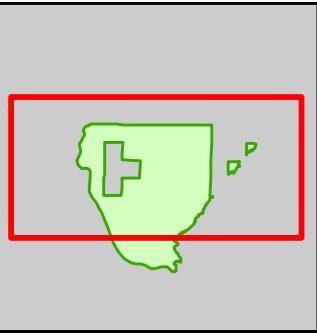


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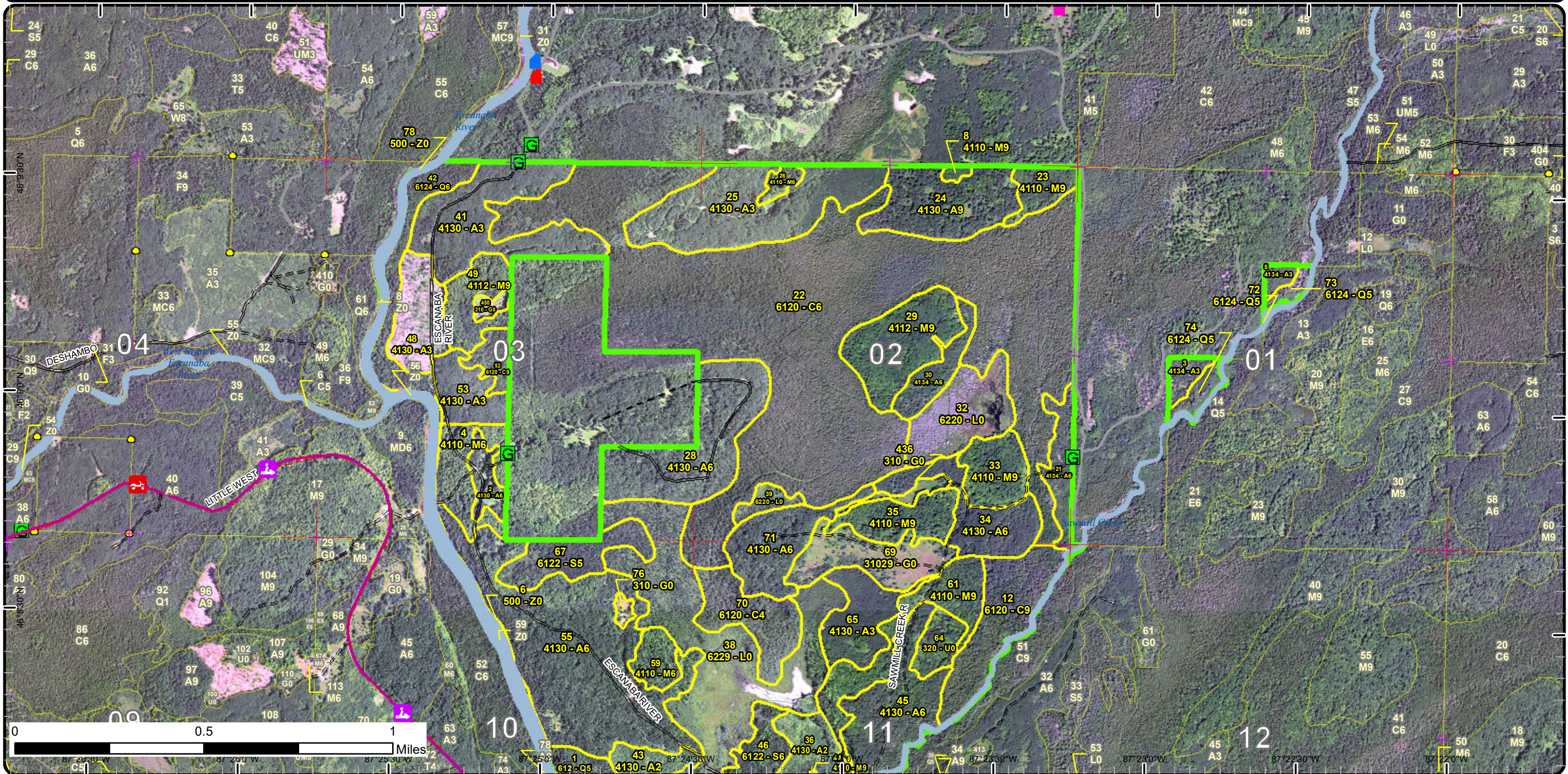


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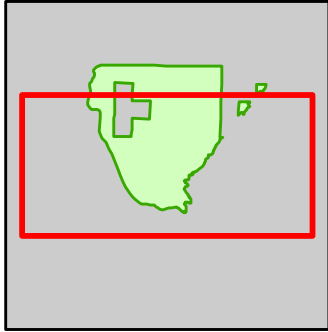


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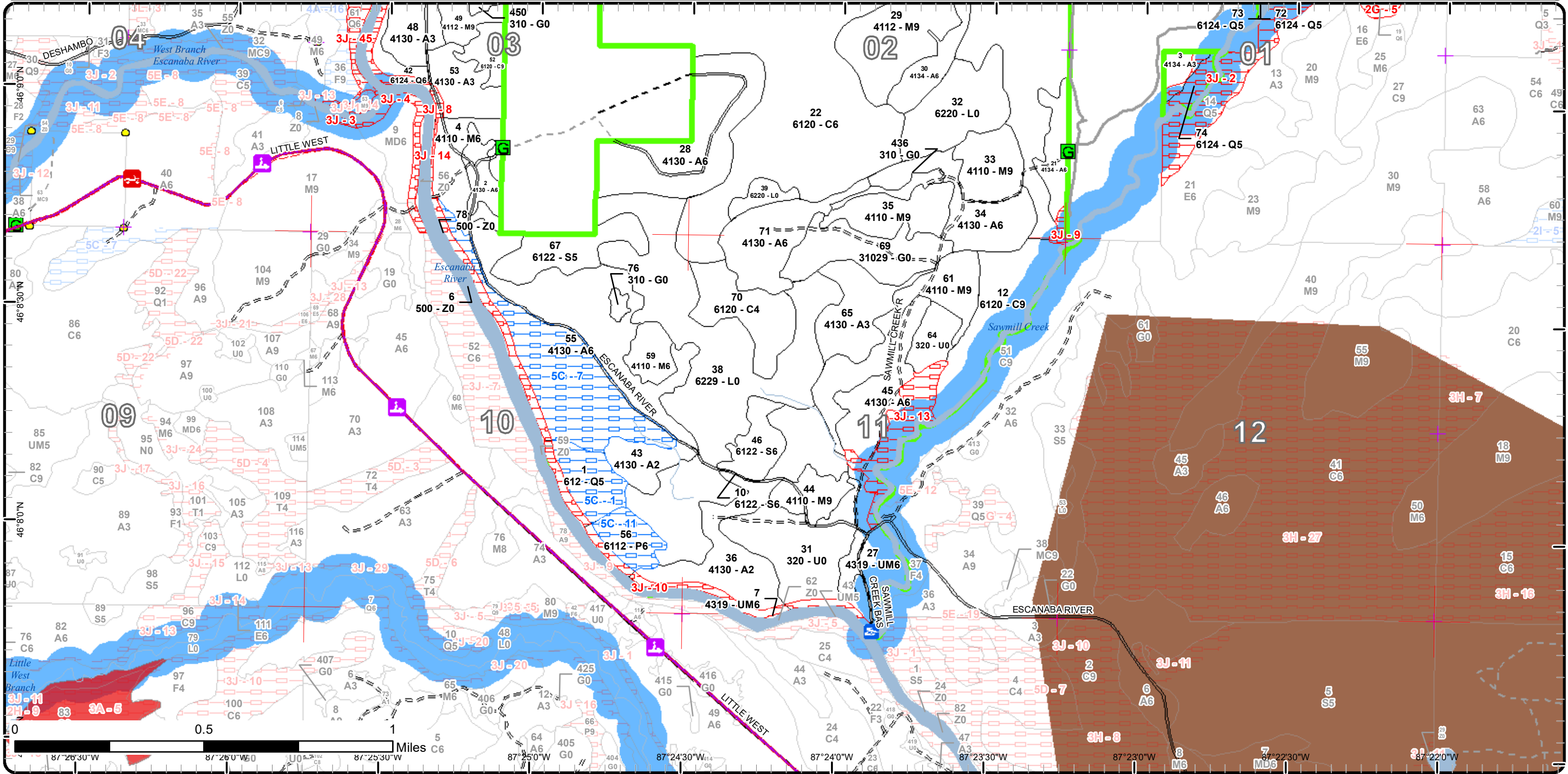


Special Conservation Areas

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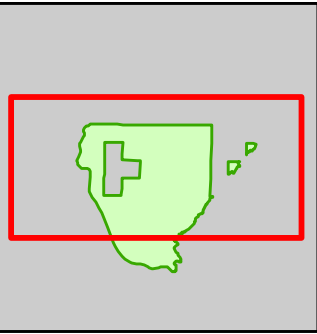


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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range

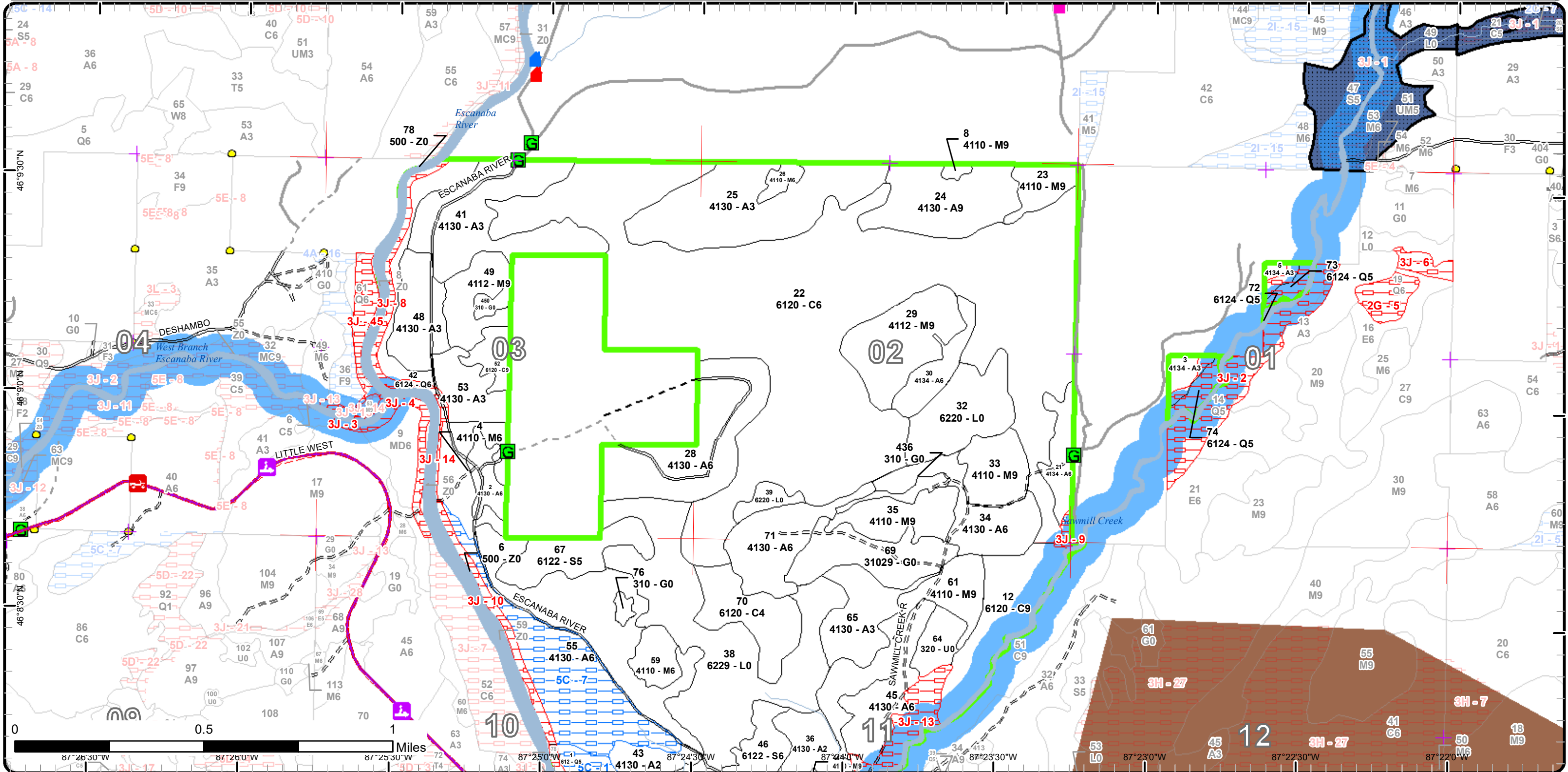


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- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- Spring or Seep





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 76
Total Compartment Acres: 1,704

Commercial Harvest - 362
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
Aspen	161	0	0	0	0	0	0	0	0	161
Lowland Spruce/Fir	14	0	0	0	0	0	0	0	0	14
Northern Hardwood	0	179	0	0	0	0	0	0	0	179
Upland Mixed Forest	9	0	0	0	0	0	0	0	0	9
Total	184	179	0	0	0	0	0	0	0	363

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	363	0	0	0	0	0	0	0	0	363
Next Step	0	0	0	14	0	0	348	0	0	362
Total	363	0	0	14	0	0	348	0	0	725



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:

9	32074009_Cut	13.9	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	82	111-140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. Mark the small patch of planted red pine down to 100 BA. Leave cedar, hemlock, pine (unless marked with orange), elm, and yellow birch. Buffer river 100' for trout stream and stand retention. Retention should contain some larger black ash.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, maple, spruce/fir</p> <p><u>Other Comment:</u> Treatment line is updated for 100' river buffer. Evaluate during prep for only frozen condition operations. The 100' buffer should capture black ash retention.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
17	32074017_Cut	59.0	4110 - Sugar Maple Association	Sawtimber Well	87	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality and creating canopy gaps for regeneration. Remove all merchantable spruce/fir. Leave some large future snags for wildlife. Favor species diversity, especially basswood, black cherry, and yellow birch, while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> northern hardwood</p> <p><u>Other Comment:</u> Steep slope along river should be excluded to avoid operating in riparian area. Use caution marking around low pocket black ash areas.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
28	32074028_Cut	1.3	4110 - Sugar Maple Association	Poletimber Well	82	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. focus on improving stand by removing poor quality trees. Leave any basswood within stand to improve diversity.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> northern hardwood</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></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
45 32074045-Cut	33.7	4130 - Aspen	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote aspen regeneration. Retention should include large diameter, forked crown aspen. Leave cedar and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, spruce/fir, cherry</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>										
2 32076002-Cut	9.5	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2 " spec to promote aspen regeneration. Retention should include large diameter, forked crown aspen. Leave pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, spruce/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 /2021</p>										
23 32076023.17_Cut	11.3	4110 - Sugar Maple Association	Sawtimber Well	96	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on removing poor quality, large diameter, first to achieve target BA. Remove all merchantable spruce/fir.</p> <p><u>Specs:</u> Thin through any aspen to encourage hardwood regeneration. Leave some large future snag trees for wildlife. Leave cedar and hemlock if present. Favor species diversity, especially basswood and yellow birch, while marking.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Multiple access points. From south across lowlands would require crane mats or frozen conditions, From the west would require new road, or</p> <p><u>Comment:</u> from the north would require private access.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
24 32076024.16_Cut	39.4	4130 - Aspen	Sawtimber Well	66	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote aspen regeneration. Include small grass openings in harvest. Retention should include large diameter, forked crown aspen. Leave cedar and pine if present.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen</p> <p><u>Regen:</u></p> <p><u>Other</u> Private landowner to north said that corners are in at SE and center along the north side of this stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

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<u>Prescription</u> Mark stand to 70 - 90 BA. Focus on removing poor quality first to achieve target BA. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Favor species diversity, especially basswood and yellow birch, while marking.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> northern hardwood										
<u>Regen:</u>										
<u>Other</u> Paint stand line to expand hardwood stand.										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2021										
26 32076026.23_ Cut	4.1	4110 - Sugar Maple Association	Poletimber Well	86	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<u>Prescription</u> Mark stand 70 - 90 BA. Focus on improving quality. Remove all merchantable spruce/fir. Leave some large future snags and the couple of large basswood for wildlife. Leave cedar, hemlock, and basswood. Favor species diversity while marking.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> northern hardwood										
<u>Regen:</u>										
<u>Other</u> Access from west will cross cedar drainage. Access from north and east would have to be through private.										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2021										
27 32076027.26_ Cut	9.0	4319 - Mixed Upland Forest	Poletimber Well	67	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Harvest aspen, fir, spruce retaining cherry, white pine, red pine.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Aspen, fir, spruce, cherry, white or red pine.										
<u>Regen:</u>										
<u>Other</u> SBW-Chp 7 TJS										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2021										
29 32076029.18_ Cut	37.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	86	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<u>Prescription</u> Mark stand to 70 - 90 BA. Focus on removing poor quality first to achieve target BA. Remove all merchantable spruce/fir. Thin through small aspen clone in the west to encourage hardwood regeneration. Leave some large future snag trees including large diameter aspen for wildlife. Leave cedar, hemlock, and elm. Favor species diversity, especially basswood and yellow birch, while marking.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> northern hardwood										
<u>Regen:</u>										
<u>Other</u> Multiple access routes from north or south, both would require crane mats or frozen conditions.										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2021										



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	33 32076033.14_ Cut	19.1	4110 - Sugar Maple Association	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
	<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on removing poor quality first to achieve target BA. Look for opportunities to create canopy gaps for hardwood regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar and hemlock if present. Favor species diversity, especially basswood and yellow birch, while marking.</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> northern hardwood</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>										
	35 32076035.15_ Cut	20.3	4110 - Sugar Maple Association	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
	<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on removing poor quality first to achieve target BA. Look for opportunities to create canopy gaps for hardwood regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar and hemlock. Favor species diversity, especially basswood, cherry, and yellow birch, while marking.</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> northern hardwood</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>										
	44 32076044.12_ Cut	12.2	4110 - Sugar Maple Association	Sawtimber Well	104	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
	<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on removing poor quality first to achieve target BA. Look for opportunities to create canopy gaps for hardwood regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar and hemlock. Favor species diversity, especially basswood, black cherry, and yellow birch, while marking.</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> northern hardwood</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>										
	45 32076045.25_ Cut	3.6	4130 - Aspen	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
	<p><u>Prescription</u> Final harvest retaining the cherry, cedar, wp, hemlock. a good summer sale</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen</p> <p><u>Regen:</u></p> <p><u>Other</u> Retain should include large aspen-pileated woodpecker/Grouse (State Game Fund)</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	45 32076045.31_Cut	24.5	4130 - Aspen	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
	<p><u>Prescription</u> Final harvest retaining the cherry, cedar, wp, hemlock. A good summer sale</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen</p> <p><u>Regen:</u></p> <p><u>Other</u> Retain should include large aspen – pileated woodpecker/Grouse (State Game Fund)</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2017</p>										
	46 32076046-Cut	13.9	6122 - Black Spruce	Poletimber Well	87	51-80	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
	<p><u>Prescription</u> Harvest to a 2" spec to promote lowland conifer and hardwood regeneration. Retention should include large diameter, forked crown aspen</p> <p><u>Specs:</u> along the edges. Leave cedar and pine.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> black spruce, tamarack, red maple, aspen</p> <p><u>Regen:</u></p> <p><u>Other</u> Do not leave retention along road, larger aspen will fall apart soon.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
	49 32076049.22_Cut	19.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
	<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality. Mark through aspen patches using the same standards to discourage aspen</p> <p><u>Specs:</u> regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity, especially basswood, black cherry, and yellow birch, while marking.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</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>										
	4 32076054_Cut	21.3	4110 - Sugar Maple Association	Poletimber Well	81	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
	<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality. Mark through aspen patches using the same standards to discourage aspen regen.</p> <p><u>Specs:</u> Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine if present. Favor species diversity, especially basswood and yellow birch, while marking.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> May have to expand river buffer SC for slope.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></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
55 32076055-Cut	56.7	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote aspen regeneration. Retention should include large diameter, forked crown aspen. Favor black cherry and wind firm white spruce in retention if available. Leave red pine and white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, spruce/fir, hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Look to include patchy hardwood areas in the north for retention.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
61 32076061.13_Cut	32.1	4110 - Sugar Maple Association	Sawtimber Well	104	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on removing poor quality first to achieve target BA. Look for opportunities to create canopy gaps for hardwood regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar and hemlock. Favor species diversity, especially basswood, black cherry, and yellow birch, while marking.</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> northern hardwood</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>										
71 32076071.29_Cut	13.1	4130 - Aspen	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Ready for harvest. Leave cherry and retention island . Stand 38 across compartment line is the same, will be ready for harvest too, which has been approved for harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen</p> <p><u>Regen:</u></p> <p><u>Other</u> Retain should include large aspen – pileated woodpecker/Grouse (State Game Fund)</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2017</p>										
71 32076071.33_Cut	14.1	4130 - Aspen	Poletimber Well	56	81-110	Harvest	Clearcut	4138 - Aspen (OI)		No
<p><u>Prescription</u> OPIC - FMD: WELL-STOCKED Aspen 4-stick average. 2010: Stand is scheduled now in order to treat with adjacent compt (C.75 stand 25) when it is prescribed for treatment in 2018. Otherwise, treatment can be delayed one more cycle. Stand also includes G ty</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2011</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
16 32077016.30_ Cut	16.6	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	81	111- 140	Harvest	Shelterwood with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote lowland species regeneration. Leave cedar, hemlock, and pine. In combination with leave species, mark to</p> <p><u>Specs:</u> leave yellow birch first and then other species if needed to maintain approximately 40 BA to create a shelterwood environment.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> lowland hardwood, spruce/fir, cedar, hemlock</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention will be in the north 1/4 of stand. Drainage flowing E/NE from the center of stand 20 (see reference layer) may need to be excluded</p> <p><u>Comment:</u> which would cut off the north portion. Strongly recommend frozen condition operations. Wet access across adjacent stands. Start date set at 10/1/27 to include treatments from multiple adjacent compartments.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</p>										
21 32077021.16_ Cut	26.0	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	81	81-110	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote lowland hardwood/conifer regeneration. Buffer Sawmill Creek to the west 300' if applicable. Mark out</p> <p><u>Specs:</u> patches with 15+ trees of unrepresented species to obtain 7%-10% retention. Leave cedar, hemlock, and pine.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> lowland hardwood/conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Exclude wet black ash/cedar drainage along the west edge (see reference line for approximate exclusion). Treatment should end up being</p> <p><u>Comment:</u> 15-20 acres once drainage is excluded. Strongly recommend frozen condition operations. Wet access across adjacent stands. Start date set at 10/1/27 to include treatments from multiple adjacent compartments.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</p>										
23 32077023.28_ Cut	30.4	4110 - Sugar Maple Association	Sawtimber Well	87	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality while maintaining/creating new canopy gaps for regeneration. Remove all</p> <p><u>Specs:</u> merchantable spruce/fir. Leave some large future snag trees for wildlife. Cut areas heavier that have black cherry to create gaps for mid-tolerant species. Leave cedar, hemlock, and pine. Favor species diversity, especially basswood and yellow birch, while marking.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Wet access across adjacent stands. Start date set at 10/1/27 to include treatments from multiple adjacent compartments.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</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
25 32077025.13_ Cut	14.7	4119 - Mixed Northern Hardwoods	Poletimber Well	81	141- 170	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Mark stand to 80-100 BA. Focus on removing poor quality poles to release crop trees while maintaining target BA. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity, especially basswood, black cherry, and yellow birch, while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Access is across wet stands. Start date set at 10/1/27 to include treatments from multiple adjacent compartments.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</p>										
30 32077030.24_ Cut	49.4	4110 - Sugar Maple Association	Sawtimber Well	87	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on removing poor quality and creating canopy gaps to release maple regeneration. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity, especially basswood, black ash, black cherry, and yellow birch, while marking.</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> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Numerous den snags scattered within. Access is across wet stands. Start date set at 10/1/27 to include treatments from multiple adjacent compartments.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</p>										

Total Treatment 607.5
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 76
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	3J
		With Condition	Not Available			
622	524	55	42	Aspen	55	42
482	482	0	0	Cedar		
39	39	0	0	Herbaceous Openland		
15	0	12	2	Lowland Aspen/Balsam Poplar	12	2
55	14	16	25	Lowland Conifers	16	25
168	168	0	0	Lowland Shrub		
36	36	0	0	Lowland Spruce/Fir		
190	189	0	1	Northern Hardwood		1
16	16	0	0	Upland Mixed Forest		
56	52	0	4	Upland Shrub		4
25	25	0	0	Water		
1,704	1,546	84	74	Total Forested Acres	84	74
	91%	5%	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	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Remote call stand - time constraints. Evaluate in future.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	45	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Within 300' trout stream buffer. Black spruce on edges is flooded and too wet.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 76
Year of Entry: 2022

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: 25' trout stream buffer for northern hardwood select harvest on stand 62. Steep slope will exclude at least 100' along river.</p>							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: 100' buffer along trout stream >50' width</p>							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Low depression stand that all surrounding water accumulates in. Very soggy, standing water black ash bottom.</p>							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: 300' trout stream buffer.</p>							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	55	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Delay harvest to break up large sized even-aged management stand.</p>							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: 100' buffer along trout stream >50' width</p>							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 76
Year of Entry: 2022

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300' trout stream buffer							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	25	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Trout buffer 100' for river.							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Remote call stand - time constraints. Evaluate in future.							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Stream buffer and long term retention.							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: River buffer 25' for hardwood thinning.							
45	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
1	612 - Lowland Coniferous Forest	Poletimber Medium	19.7	88	81-110	N/A	Mixed conifer with some hardwood patches and open veins of alder.																																													
2	4130 - Aspen	Poletimber Well	9.5	49	81-110	N/A	Smaller aspen stand surrounded by hardwood. Larger diameter, healthy aspen. Patchy openings within puts canopy closer to about 75% average. Openings are already growing in with merchantable aspen and spruce/fir. Open patches should sprout in with aspen when cut.																																													
<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>Quaking Aspen</td> <td>80</td> <td>Log/Pole</td> <td>10</td> <td>49</td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	80	Log/Pole	10	49	Red Maple	5	Log/Pole	10		Balsam Fir	10	Pole/Sapling	6		Sugar Maple	5	Log/Pole	10																					
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3	4134 - Aspen, Spruce/Fir	Sapling Well	5.9	35	Immature	N/A	Cut in 1986. Trout stream buffer.																																													
4	4110 - Sugar Maple Association	Poletimber Well	22.2	81	111-140	N/A	Good quality sugar maple poles / small sawlog sized trees. Areas dense with poles have higher BA. Patchy aspen overstory found in areas. Slight slope along rivers edge. 120 100 100 130 140 120 110 Average of 120 BA. OPIC - FMD: T. sale #023-83 - select cut Fall, 1983. 2000: Well-stocked small trees, Good quality. Thinned Sept, 2005 Giguere (Benard) permit #32-012-02-01 "Motorhead Sale" (units 2,3,4). 2010: Aspen leave trees and edge inclusions left for retention/diversity within stand. Rolling terrain. 2000 YOE: stand 32																																													
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5	4134 - Aspen, Spruce/Fir	Sapling Well	3.5	35	Immature	N/A	A 300' trout stream buffer consumes east half of stand. OPIC - FMD: SCA in 2000: Stand not field checked this time. 2010: T. sale #010-85 "Yellow Submarine Block" (Unit 2,3) - cut winter, 1986 (access through PVT lands). Stand was proposed as old growth last entry; remove designation. Stand contains small acreage, but could still be treated in the future as long as Sawmill Creek buffer is retained and private landowner grants access. Possibly negotiate a sale when private landowner treats their land. Mixed stand composition is acceptable. 2000 YOE: stand 21																																													
6	500 - Water	Nonstocked	15.6	0	Unspecified	No	river																																													
7	4319 - Mixed Upland Forest	Poletimber Well	0.0	91	51-80	N/A	OPIC - FMD: SCA-Mixed aspen, spruce/fir and red maple along the Escanaba River. Retain as biodiversity maintenance area to protect riparian zone. This stand also receives regular recreational use from canoe campers. 2016-old aspen, snapped off bf, low quality M.																																													
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8	4110 - Sugar Maple Association	Sawtimber Well	1.7	86	111-140	N/A	Small hardwood patch. No regen in understory.																																															
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10	6122 - Black Spruce	Poletimber Well	0.0	87	51-80	N/A	One acre patch of hardwood in center will be even age managed with black spruce. OPIC - FMD: Narrow sandy ridge surrounded by low black spruce. Formerly an aspen stand, most of the aspen is dead and down and it is now a poor quality even aged soft maple stand. North end has a Ford Model A body. OPIC - FMD: Black spruce poles 5-7" dbh over smaller medium stocked spruce. Quite wet.																																															
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12	6120 - Lowland Cedar	Sawtimber Well	40.0	106	81-110	N/A	OPIC - FMD: SCA-Swamp conifers along Sawmill Creek. Retain as biodiversity maintenance area to protect the riparian values along the Sawmill, and provide for deer yard.																																															
21	4134 - Aspen, Spruce/Fir	Poletimber Well	15.1	33	1-50	N/A	Large patches of fir and patches of mixed aspen near pole sized. Fir has budworm damage but is has barely one stick at this time, 2020. A 300' trout stream buffer cuts off the south tip.																																															
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22	6120 - Lowland Cedar	Poletimber Well	405.7	111	81-110	N/A	Vast area of solid cedar with very little species diversity across much of the area. Patchy areas are flooded. Some areas have dense fir understory. OPIC - FMD: 2000: Mostly Cedar poor quality in center of stand but mix of species. Stream in SE part. 2010: Agree with last entry comments. Areas visited were browsed to ~5 - 6' hts (cedar ~40-50' tall). Old ice trails are brushed in with tagalder and small BF (6 - 10' hts). No real cedar regeneration noted. Dead, flooded cedar in the SE portion at old ice road x-ing (beaver activity at adjacent pond?). Soils are Carbondale-Tawas. 2000 YOE: stand 34																																															
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23	4110 - Sugar Maple Association	Sawtimber Well	11.3	96	111-140	N/A	Maple log stand. No regen present in the understory. Moderate quality pole to log sized trees with a good amount of large diameter, poor quality logs mixed in. Some aspen poles mixed in along the south edge. 140 130 80 Average of 120 BA. OPIC - FMD: M6 DEAD ELM AREAs. 2000: Only fair quality but good in small wood. Thin when adjacent aspen is cut. 2010: Part of t. sale #17-74 - cut 1974-76 (only removed A, large WS and BF). Should treat with adjacent aspen when harvested (stand 24). 2000 YOE: stand 18																																														
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24	4130 - Aspen	Sawtimber Well	39.4	66	111-140	N/A	Very large diameter, healthy quaking aspen. Original age said 43 in 2020. Hard to get accurate age with large diameter but stand is estimated to be 65+ years old. Fairly open understory with scattered fir saplings and small grass opening patches. Small patch of hardwood along the north border. Lots of moose sign from this winter.OPIC - FMD: A6 CUT 1977 (T. sale #17-74). 4-5 stick trees mostly well-stocked. Some sparse areas, and stand now includes several small G areas. Treat adjacent M type when cut. 2000 YOE: stand 19																																														
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25	4130 - Aspen	Sapling Well	63.6	19	Immature	N/A	Young, dense aspen sapling stand. A few patches of spruce/fir found in the center. Small patch of cedar found in the west end. OPIC - FMD: Sale cut under permit # 013-02-01 "Trails End Aspen" - cut summer, 2002. New access road was created (and bermed) for harvest, due to denied private access. Some balsam poplar within, as well as a few low areas, swales, scattered residual spruce, and interior S/C retention patch. Some black curled/dead leaders noted on aspen. Regeneration is now ~ 10 - 20' in height. 2000 YOE: stand 20																																														
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26	4110 - Sugar Maple Association	Poletimber Well	4.1	86	111-140	N/A	Moderate quality sugar maple poles dominate. A few scattered large diameter trees within. Some ironwood saplings in open patches. Most areas are dense with pole sized trees with a couple of canopy gaps across stand. Moose tracks and bed in stand. 90 130 100 150 140 Average of 120 BA. OPIC - FMD: POOR HDWD. Selectively cut under permit # 013-02-01 "Trails End Aspen" (Unit 1) summer, 2002. Mainly sugar maple; lots of clumps/forked trees yet, stain and other defects. No regeneration noted, except for some ironwood. Leatherwood present. No Wildlife underplanting completed?? 2000 YOE: stand 22																																														
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27	4319 - Mixed Upland Forest	Poletimber Well	16.2	67	51-80	N/A	OPIC - FMD: A6 2-3 stick aspen surrounded by a large grass opening. Stand is located near a popular fishing/camping site. 2016-Spruce budworm present in the stand. Harvest aspen, fir, spruce retaining cherry, white pine, red pine.																																														
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28	4130 - Aspen	Poletimber Well	55.5	36	1-50	N/A	Young aspen stand. Patches of fir scattered within. Access is through private from the west. OPIC - FMD: T. sale #026-82 "Sawmill Creek" (unit 1) - cut summer, 1984. Contains retention patch w/A,P,B,M - hazelbrush. Also includes G types (former stands 402,403). Hypoxylon present. Aspen ranges from 3 - 6" dbh. Soils are Shoepac-Trenary. 2000 YOE: stand 24																																													
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29	4112 - Maple, Beech, Cherry Association	Sawtimber Well	37.0	86	141-170	N/A	Dense maple stand. Ranges from poor quality / low forked trees to good quality logs. Wide open understory with no regen. Red maple is mainly poor quality. Scattered large diameter aspen and yellow birch scattered across stand. 130 160 160 140 140 Average of 145 BA. OPIC - FMD: THINNED 1983-84 (T. sale # 023-80). NO NEED FOR THIN THIS CYCLE. 2000: Only fair quality. Sparse dead elm areas.wet area in center. Stand has poor access. 2010: Access to stand has deteriorated since last entry - old ice road X-ing drainage has been flooded, and surrounding cedar is now standing dead up to this point. Not sure if even winter access will be feasible. Stand has little to no regeneration since last cut; too much deer pressure? This is a main factor in limiting treatment. Lots of defects in the hardwood. Cedar, YB, beech, basswood all noted within stand. 2000 YOE: stand 27																																													
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30	4134 - Aspen, Spruce/Fir	Poletimber Well	13.7	36	1-50	N/A	Young aspen sapling stand. Older age class near 50 years old found in patches along the hardwood stand. Large patches dense to large fir saplings in the north and east. OPIC - FMD: CUT 1984 (T. sale #023-80) .3"DBH,30'TALL.WELL-STOCKED.2000: Some Balm areas. Wet areas have F2F1+ alder,willow,etc. Residual M in areas. 2010: A/P now ~ 38 - 45' hts. Soils are Shoepac-Ensley. 2000 YOE: stand 28																																													
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31	320 - Upland Shrub	Nonstocked	45.3		Unspecified	No	OPIC - FMD: Grass opening. 2016-upland shrub with scattered trees.																																													
32	6220 - Alder/willow	Nonstocked	32.0		Unspecified	No	Flooded and dammed by beavers along east edge. Standing dead cedar and alder. OPIC - FMD: beaver pond on small creek and surrounding low ground, flooded timber. 2000 YOE: stand 68																																													
33	4110 - Sugar Maple Association	Sawtimber Well	19.1	86	111-140	N/A	Moderate to good quality sugar maple, large pole to large sawlog sized trees. Near pure sugar maple. No regen in the understory. Variable BA across the stand. 120 70 150 110 150 90 Average of 115 BA. OPIC - FMD: THINNED 1984 (#026-82 - Unit 2). No regen. Grass mat. Nice quality but some low forks, canker etc. Gaps have no trees. Thinned again 2004, LaFleur Logging contract #14-02-01 "Sawmill West Hardwood". 2010: Still no regeneration noted. Wait one more cycle to thin. 2000 YOE: stand 26																																													
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34	4130 - Aspen	Poletimber Well	28.5	36	1-50	N/A	Nice young aspen pole stand. fir scatted in understory and patchy in areas. OPIC - FMD: 2000: CUT 1983-84. Almost A6 4" average well-stocked. 2010: T. sale #026-82 "Sawmill Creek" (unit 3). Some ironwood, PB within; 6 - 10' BF in understory, hazel. Soils are Shoepac-Trenary. 2000 YOE: stand(s) 25,31																																											
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35	4110 - Sugar Maple Association	Sawtimber Well	20.3	86	111-140	N/A	Moderate to good quality, near pure sugar maple stand. No regen in the understory. Variable BA in areas across stand with patchy stocking along the south edge. 150 110 130 90 100 Average of 120 BA. OPIC - FMD: THINNED 1984 (#026-82 - Unit 2). No regen. Grass mat. Nice quality but some low forks, canker etc. Gaps have no trees. Thinned again 2004, LaFleur Logging contract #14-02-01 "Sawmill West Hardwood". 2010: Still no regeneration noted. Wait one more cycle to thin. Soils are Shoepac-Trenary. 2000 YOE: stand 26																																											
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36	4130 - Aspen	Sapling Medium	55.1	10	Immature	N/A	OPIC - FMD: U is a mix of willow, dogwood, and hazel. Occasional fir and spruce scattered throughout the stand. 99 is a mix of cherry and soft maple. Stand will hold 10 years easily if needed. 2010-Cut by K&K winter of 2010 under contract # 010-08-01.																																											
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38	6229 - Mixed lowland shrub	Nonstocked	130.1	0	Unspecified	No	OPIC - FMD: Tag alder with small black spruce.																																											
39	6220 - Alder/willow	Nonstocked	5.8			No	OPIC - FMD: Alder. 2000 YOE: stand 75																																											
41	4130 - Aspen	Sapling Well	53.2	24	Immature	N/A	Young aspen sapling stand on the verge of becoming pole sized in areas. A drainage cuts east/west along the north 1/3 of stand. Larger diameter average in the north half. Spruce/fir mix becomes more dominant in the SW portion. OPIC - FMD: 2000: Area treated under timber sale # 021-92-01 "Trails End Block (unit 1,2,4) - cut fall, 1996. 1" dbh average well-stocked. 2010: Some residual SM, small BF/S, ash swale, and old G type (stand 409) within. Scattered patches left (retention) of S/F - various heights. Aspen ranges in heights from 24 - 45'. 2000 YOE: stand 40																																											
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42	6124 - Lowland Spruce-Fir	Poletimber Well	24.9	115	81-110	N/A	Rivers edge stand with larger spruce/fir in upland areas transitions to lowland conifer in spots. Some of this stand may be cut with adjoining stands in the future.																																															
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43	4130 - Aspen	Sapling Medium	12.8	10	Immature	N/A	2016-trace residual cherry. Cut February of 2010 under contract #010-08-01. Aspen 10-15' tall.																																															
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44	4110 - Sugar Maple Association	Sawtimber Well	12.2	104	111-140	N/A	OPIC - FMD: Thinned in 2000 by Bruce Brown under permit #20-98-01. 2016-little regeneration noted.																																															
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45	4130 - Aspen	Poletimber Well	48.3	56	81-110	N/A	OPIC - FMD: 3-5 stick aspen with spruce and fir. Scattered cherry poles. Understory is comprised of fir and hazel.																																															
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46	6122 - Black Spruce	Poletimber Well	13.9	87	51-80	N/A	One acre patch of hardwood in center will be even age managed with black spruce.																																															
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48	4130 - Aspen	Sapling Well	23.6	6	Immature	N/A	Aspen sapling stand near fully stocked, some small open patches yet. Scattered fir saplings and cherry poles. OPIC - FMD: A6F5A2,PATCHES OF A3, F2 and sparse areas.Variable age. 2010: Aspen is in decline and starting to break up - treat now. Was held for diversity last entry. Fairly open-grown spruce within - may be possible to leave some, as well as any cherry within stand. A few maple clumps noted. Hazel underbrush present. Soils are Nadeau-Mancelona. 2000 YOE: stand 45 ***Under contract #003-12-1. RF Tylka, WUP TMS: TCR dtd 6-2-16; cut under TS 33-003-12-01 Escanaba River Campsite																																																			
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49	4112 - Maple, Beech, Cherry Association	Sawtimber Well	19.6	86	111-140	N/A	Good quality maple poles and small sawlog sized trees. Some larger aspen along the edges. A vein of aspen with mixed maple is found along the W/SW part of the grass opening. Stand transitions to a lower flat along in the SE with more red maple, aspen, and cedar mixed in. Very open understory with no hardwood regen. 100 130 110 140 140 100 Average of 130 BA. OPIC - FMD: ASP CUT OUT 1971.GRASS GROUND COVER. 2000: No regeneration. Good access. Wildlife will underplant Hemlock. Cut under permit #32-012-02-01 "Motorhead Sale" (unit 1) sept 2005 by Giguere(Benard). 2010: No W/H noted in understory (~1 foot snow on ground, though). Retention patch/spps within and on edges (scattered S/F, aspen clone, cherry, cedar). Still no hardwood regeneration present. Soils are Emmett and Paquin-Finch. 2000 YOE: stand 42																																																			
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52	6120 - Lowland Cedar	Sawtimber Well	8.6	91	111-140	N/A	Stand has open alder patches, otherwise dense with cedar. Good diameter on cedar but very short trees. Some black spruce mixed in areas. OPIC - FMD: Poor timber quality. 2010: with hemlock; snags. Serves as nice retention patch of lowland conifers, which joins private Q6/C6 type also - low and wet. Soils are Paquin-Finch. 2000 YOE: stand 43																																																			
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53	4130 - Aspen	Sapling Well	18.2	24	Immature	N/A	Young, dense aspen sapling stand. Mixed clones of both bigtooth and quaking. A deep drainage trench cuts east to west across the center of the stand draining into the river from adjacent lowland stand. OPIC - FMD: Area treated under timber sale # 021-92-01 "Trails End Block" (unit 3) - cut 1996. A3 10' tall well-stocked. 2010: A3 now 20 - 30' hts; stand also contains some S, F WP, elm. Low type contained within stand, as well as an intermittent creek/drainage, which feeds out of stand 52 towards Escanaba River. 2000 YOE: stand 53																																																			
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55	4130 - Aspen	Poletimber Well	121.4	49	81-110	N/A	<p>Aspen is 8" average. Larger diameter aspen within that grew with more sunlight. Average aspen diameter decreases slightly sloping towards the river to the west. Patchy hardwood areas mixed with aspen found in the north would make good long term retention. Stand could hold well until next cycle or be harvested now.</p> <p>OPIC - FMD: Stand has just transitioned into a pole stand. Aspen dbh is running 4-7", 1-2 sticks tall. Abundant hazel in the understory. A few alder swales are located within the stand. 2016-stand contains old grass openings, some blowdown in areas. Spruce budworm present. Retain some smaller white birch, rp, and larger crowned hardwoods.</p>																																																											
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56	6112 - Lowland Aspen	Poletimber Well	14.6	51	1-50	N/A	<p>Aspen with birch and maple mixed in.</p> <p>OPIC - FMD: White birch poles and a few aspen with scattered black spruce over tag alder. Very wet site. 2016-LF too wet.</p>																																																											
59	4110 - Sugar Maple Association	Poletimber Well	10.2	184	81-110	N/A	<p>OPIC - FMD: Fairly decent hardwoods growing on a small knob. This stand was scheduled, marked, and sold to Bruce Brown for cutting 10 years ago as part of a bigger sale. It was never cut and most of the marked trees still retain visible orange paint. The stand will have to be remarked in yellow. Two illegal blinds overlooking a bear baiting site are located on the north slope of the stand. 2010-Cut by K&K winter of 2010 under contract # 010-08-01.</p>																																																											
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61	4110 - Sugar Maple Association	Sawtimber Well	32.3	104	111-140	N/A	<p>High BA should have been set up and combined with adjoining aspen but was missed. High BA needs thinning, EB 2020. OPIC - FMD: Cut under permit 21-98-01 in 1999. Hardwood appears to be growing well.</p>																																																											
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64	320 - Upland Shrub	Nonstocked	10.2	33	Immature	No	<p>OPIC - FMD: This stand consists of cherry, raspberry, fir, grass and scattered 8' -15' tall aspen clones.</p>																																																											
65	4130 - Aspen	Sapling Well	24.8	22	Immature	N/A	<p>OPIC - FMD: Cut under permit 021-98-01 in 1999. Aspen is doing very well, 1-2" dbh and 10-15' tall.</p>																																																											
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67	6122 - Black Spruce	Poletimber Medium	22.4	71	1-50	N/A	<p>OPIC - FMD: 1-2 stick black spruce with black spruce understory..</p>																																																											
69	31029 - Grass (OI)	Nonstocked	29.6			No	<p>OPIC - FMD: Grass opening.</p>																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
70	6120 - Lowland Cedar	Poletimber Poor	27.3	101	1-50	N/A	OPIC - FMD: CUT 1989, #28-88-1																																			
71	4130 - Aspen	Poletimber Well	29.3	56	81-110	N/A	OPIC - FMD: This stand is almost pure aspen, with poles 4-5 sticks tall, and 8-10" dbh. Fairly heavy hazel brush in the understory and an occasional black cherry pole can be found scattered about.																																			
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72	6124 - Lowland Spruce-Fir	Poletimber Medium	0.0	91	51-80	N/A	Lowland flooded corridor along Sawmill Creek. Mostly cedar with smaller patches of flooded black spruce. OPIC - FMD: SCA: Riparian corridor which includes Sawmill Creek, surrounding lowland brush and buffer (previously broken out as individual stands). Larger cedar on more upland edges; WP noted with dead top. Mixed hardwood noted includes: RM, PB, A. Mixed softwood: BF, WS, WP, H. Maintain old growth designation - good protection for creek and corridor.. Soils are Evart-Pelkie-Sturgeon Complex. 2000 YOE: stand(s) 8,54-60,71																																			
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73	6124 - Lowland Spruce-Fir	Poletimber Medium	4.2	91	51-80	N/A	Lowland flooded corridor along Sawmill Creek. Mostly cedar with smaller patches of flooded black spruce. OPIC - FMD: SCA: Riparian corridor which includes Sawmill Creek, surrounding lowland brush and buffer (previously broken out as individual stands). Larger cedar on more upland edges; WP noted with dead top. Mixed hardwood noted includes: RM, PB, A. Mixed softwood: BF, WS, WP, H. Maintain old growth designation - good protection for creek and corridor.. Soils are Evart-Pelkie-Sturgeon Complex. 2000 YOE: stand(s) 8,54-60,71																																			
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76	310 - Herbaceous Openland	Nonstocked	2.1		Unspecified	No	OPIC - FMD: Grass opening.																																			
78	500 - Water	Nonstocked	9.8			No	OPIC - FMD: Escanaba River and Big West branch. 2000 YOE: stand 72																																			
436	310 - Herbaceous Openland	Nonstocked	4.5		Unspecified	No	Long grass opening growing in with conifers. OPIC - FMD: Shoepac-Trenary soils. 2000 YOE: stand 400																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
450	310 - Herbaceous Openland	Nonstocked	3.2			No	Opening with some fire growing in. OPIC - FMD: Contains some S/F. 2000 YOE: stand 412