



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32020

Entry Year 2022

Acreage: 1,967

County Marquette

Management Area: Cyr Swamp

Revision Date: 2020-07-23

Stand Examiner: Peter Holodnick

Legal Description:

T45N R24W Section(s) 28,32

T44N R24W Section(s) 4,9,16,17

Identified Planning Goals:

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

Soil and topography:

Nearly ¾ of compartment is comprised of Carbondale-Tawas and DawsonGreenwood lowland mucks, with slightly higher grounds mainly AuGres-Deford, Charlevoix, ShoepacTrenary, Paquin-Finch and Croswell sands and loams.

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

Some small private landowners in the north and south part of the compartment. Large industrial ownerships in the center of the compartment.

Unique Natural Features:

Potential for northern goshawk, red-shouldered hawk, spruce grouse, and black-backed woodpecker. Potential for eagle, osprey, and great blue heron rookery. Potential for moose and wolf. Potential for frigga fritillary, freija fritillary, and red-disked alpine in bogs. Potential for wood turtle. Potential for auricled twayblade, veiny meadow rue, western dock, Farwell's water-milfoil, alternate-leaved water-milfoil, and linearleaved gentian along riparian areas. Potential for calypso orchid, rayless mountain ragwort, and ram's head lady's-slipper in conifer swamps.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Cyr swamp, one of the larger swamps in Michigan, covers part of this compartment.

Watershed and Fisheries Considerations:

Sawmill Creek headwaters area. This compartment contains a northern and southern section. The northern and sections of this compartment contain Sawmill Creek and streams which serve as tributary to Sawmill Creek. All of these waterbodies are designated Type 1 trout streams less than 50' width. 300' buffers are recommended for Sawmill Creek and connecting tributaries 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:

Compartment 020 is found within the Cyr Swamp Management Area; which is a Swamp landform in Southeastern Marquette County. The State Forest covers about 9,200 acres and is mostly contiguous. The dominant Natural Communities are poor conifer swamps. Major forest cover types include Mixed Lowland Conifer, Bogs and Treed Bogs. The Cyr Swamp is the largest swamp in WUP on State Forest. The State Forest portion of the swamp is about 9,200 mostly contiguous acres and State Forest makes up the major ownership in this area. The management priority for this area is to maintain and promote the un-fragmented, old forest character nature of this management area. Some of the most significant wildlife management issues in the management area are: early successional forest; coarse woody debris; mature forest; and mast.

The following have been identified as featured species for the Cyr Swamp Management Area: Red-shouldered Hawk,

Snowshoe Hare, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 200 feet. The Cambrian Trempealeau and Munising Formations and the Precambrian Jacobsville Sandstone subcrop below the glacial drift. The Jacobsville has been used as a building stone in the past. There are no gravel pits in the area, and potential appears to be limited. Abandoned iron mines are located one mile to the west, but this compartment has never been leased. There is no economic oil and gas production in the UP.

Vehicle Access:

Poor except for the north area along M-35. Access has been available through some of the private lands in the south part of this compartment.

Survey Needs:

Recreational Facilities and Opportunities:

Some hunting areas in the south mostly controlled by the private land access. Opportunities for non-motorized "communing with nature" abound in this compartment for those people with good waterproof boots and a high-insect tolerance.

Fire Protection:

Extremely difficult to access area were there to be a naturally occurring wildfire. Plans should be established to deal with suppression activities in this rather sensitive area.

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**

Report 1 – Total Acres by Cover Type and Age Class

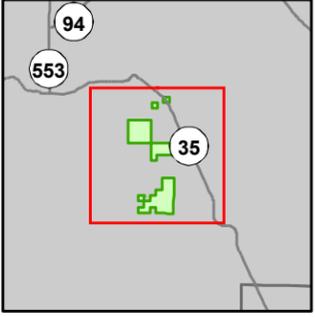


Age Class

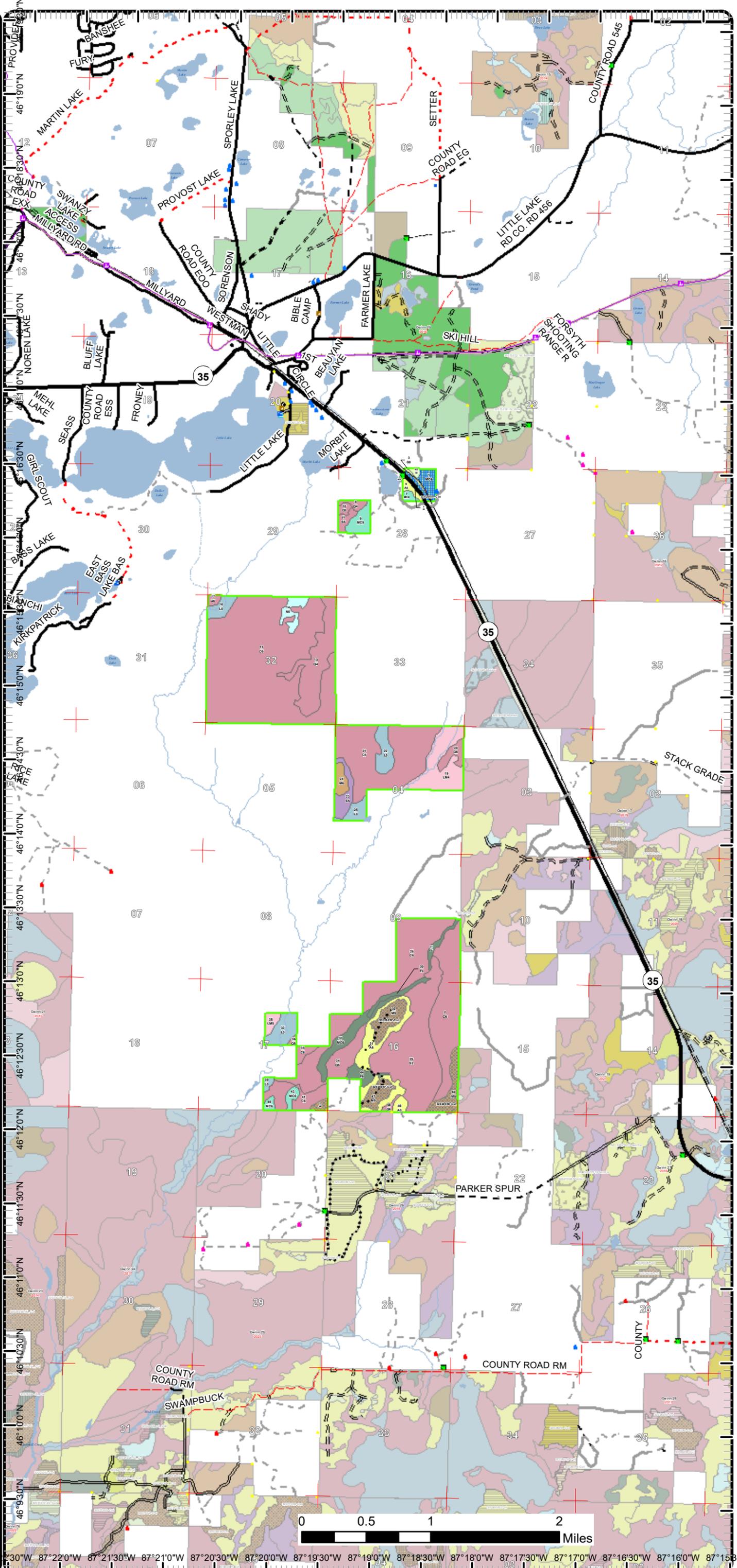
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
Cedar	0	0	0	0	0	0	0	0	0	0	0	349	143	0	0	0	507	0	999
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	4	0	0	0	0	0	6	21	187	7	0	0	0	0	0	225
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	78	10	0	0	0	0	0	88
Lowland Shrub	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	9	206	0	0	0	0	0	0	215
Marsh	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	103
Upland Conifers	0	0	0	0	0	0	0	0	19	0	20	0	33	0	0	0	0	17	89
Upland Spruce/Fir	0	0	11	0	0	0	0	0	0	0	9	0	0	0	0	0	0	15	35
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	118	0	11	78	0	0	0	0	19	6	59	820	193	0	0	0	507	157	1968

Overview Map

Compartment: 20
 T45N, R24W, Sec. 28, 32
 T44N, R24W, Sec. 04, 09, 16, 17
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Cyr Swamp
 YOE: 2022
 Acres: 1967.3 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 3/2/2021
 Map Phase: Post-Review



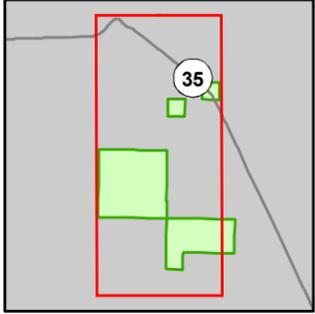
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- Active Railroads
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- House
- Structure, Seasonal Dwelling
- Gate
- Boating Access Site
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland



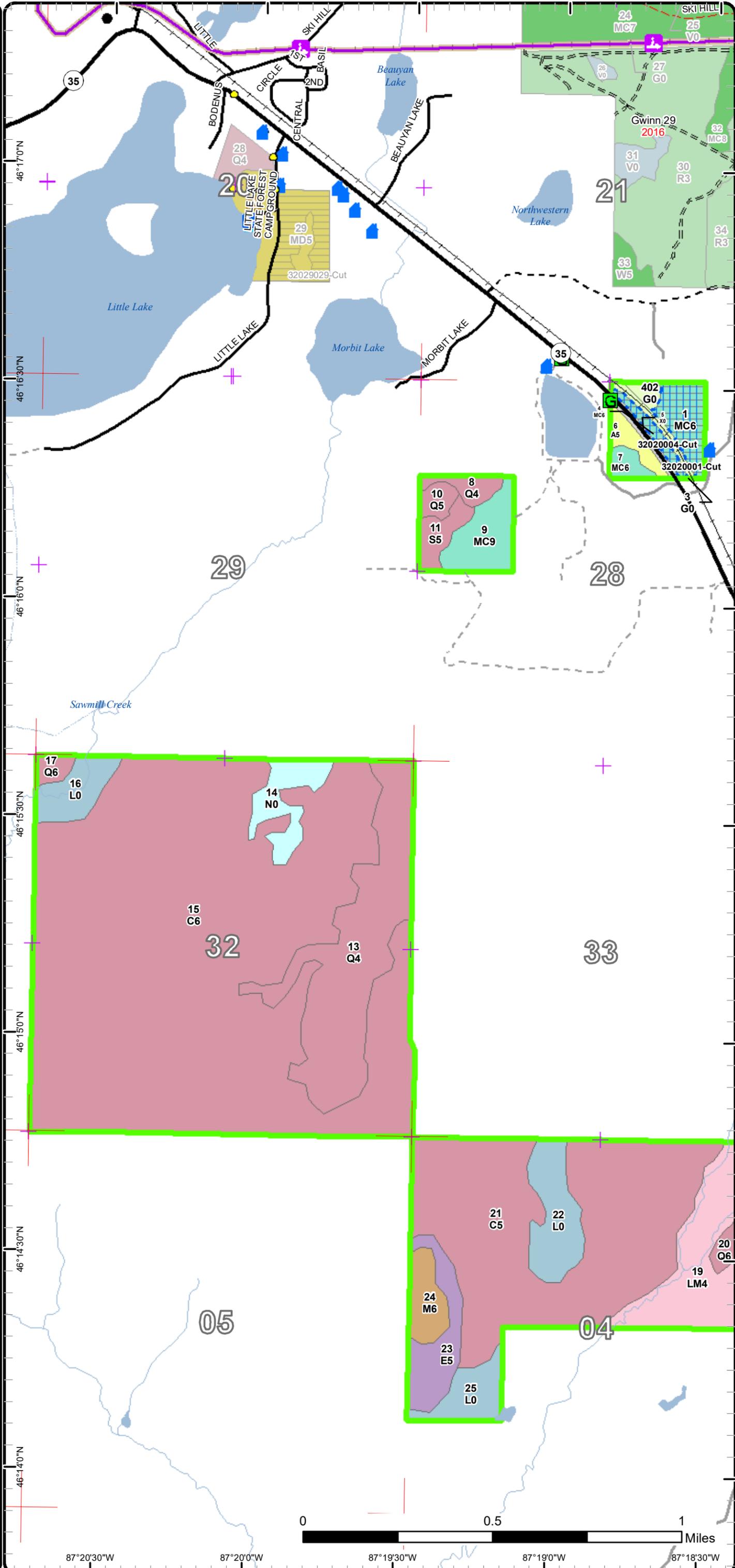
87°20'30"W 87°21'30"W 87°21'00"W 87°20'30"W 87°20'00"W 87°19'30"W 87°19'00"W 87°18'30"W 87°18'00"W 87°17'30"W 87°17'00"W 87°16'30"W 87°16'00"W 87°15'30"W

Cover Type & Treatments Map

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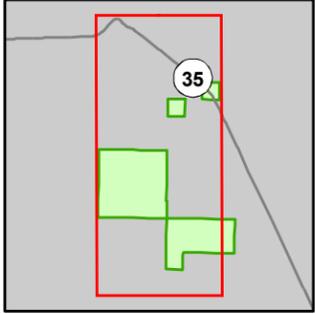
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- County - Dirt Road (Seasonal)
- Private - Paved Road
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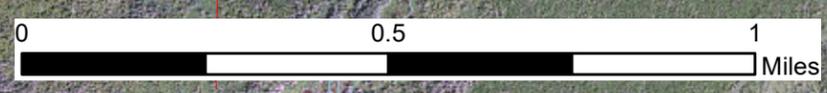
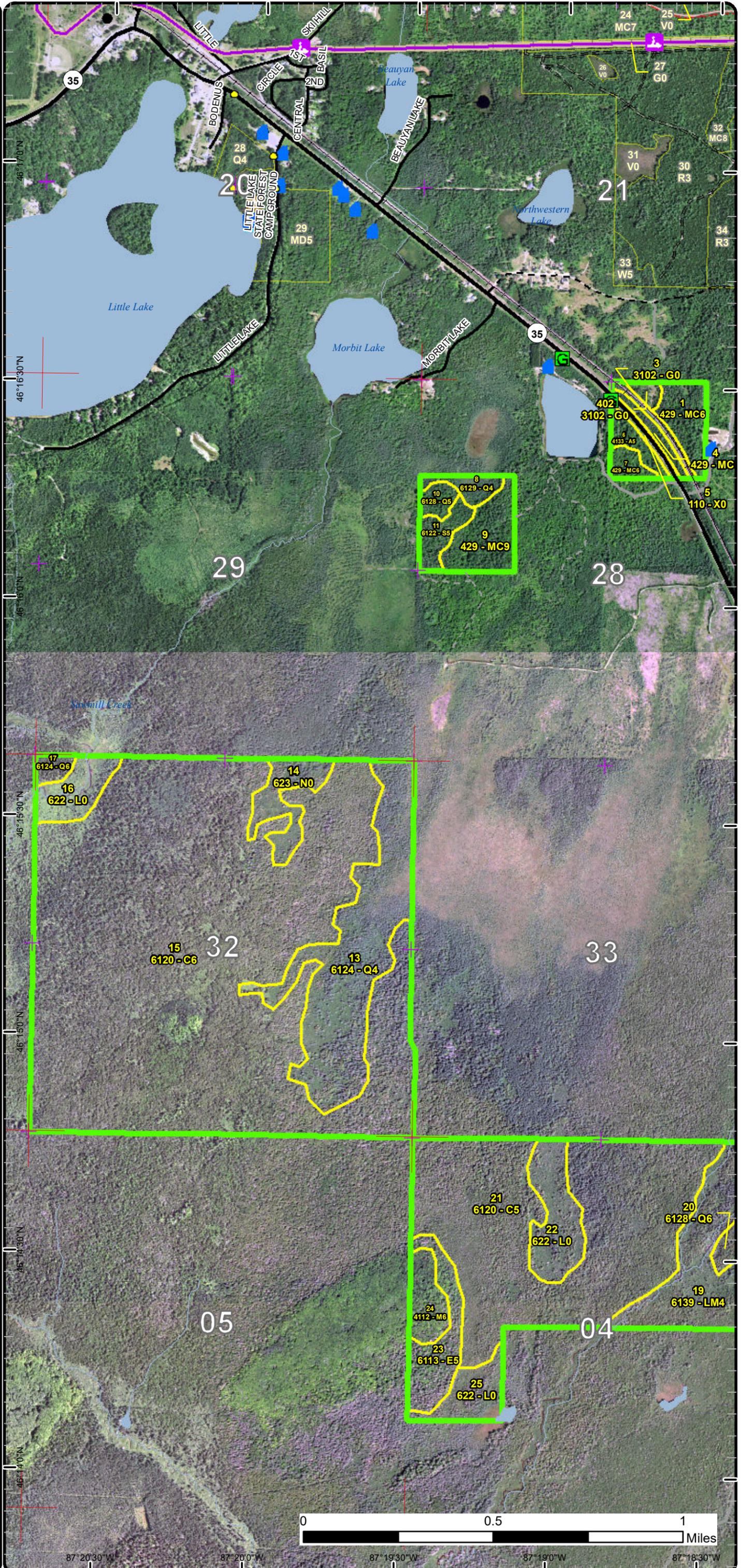
87°20'30"W 87°20'0"W 87°19'30"W 87°19'0"W 87°18'30"W

Stand Boundary Map

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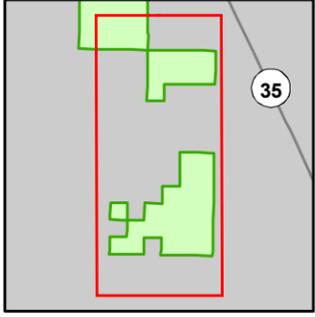
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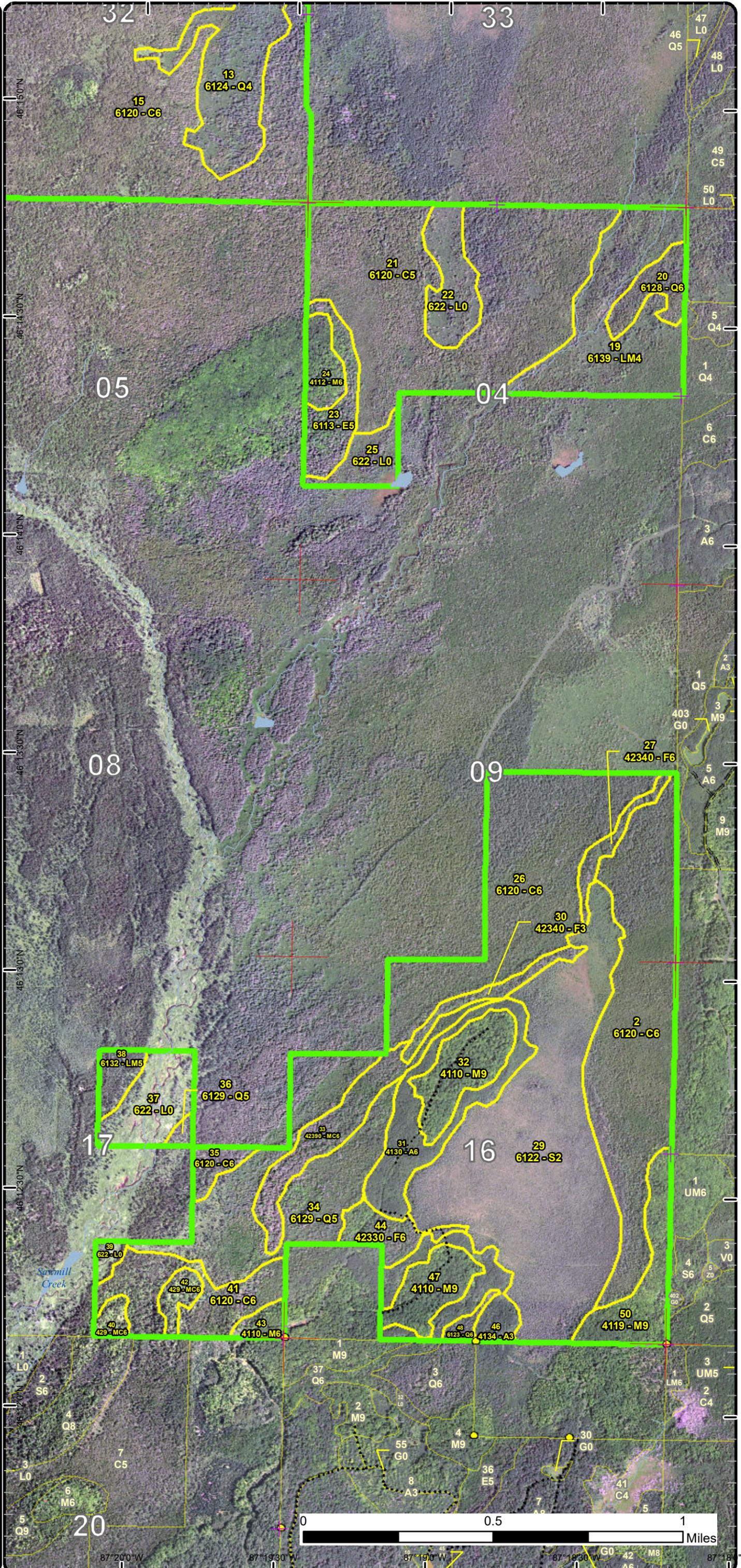
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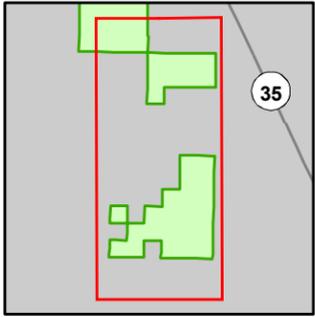


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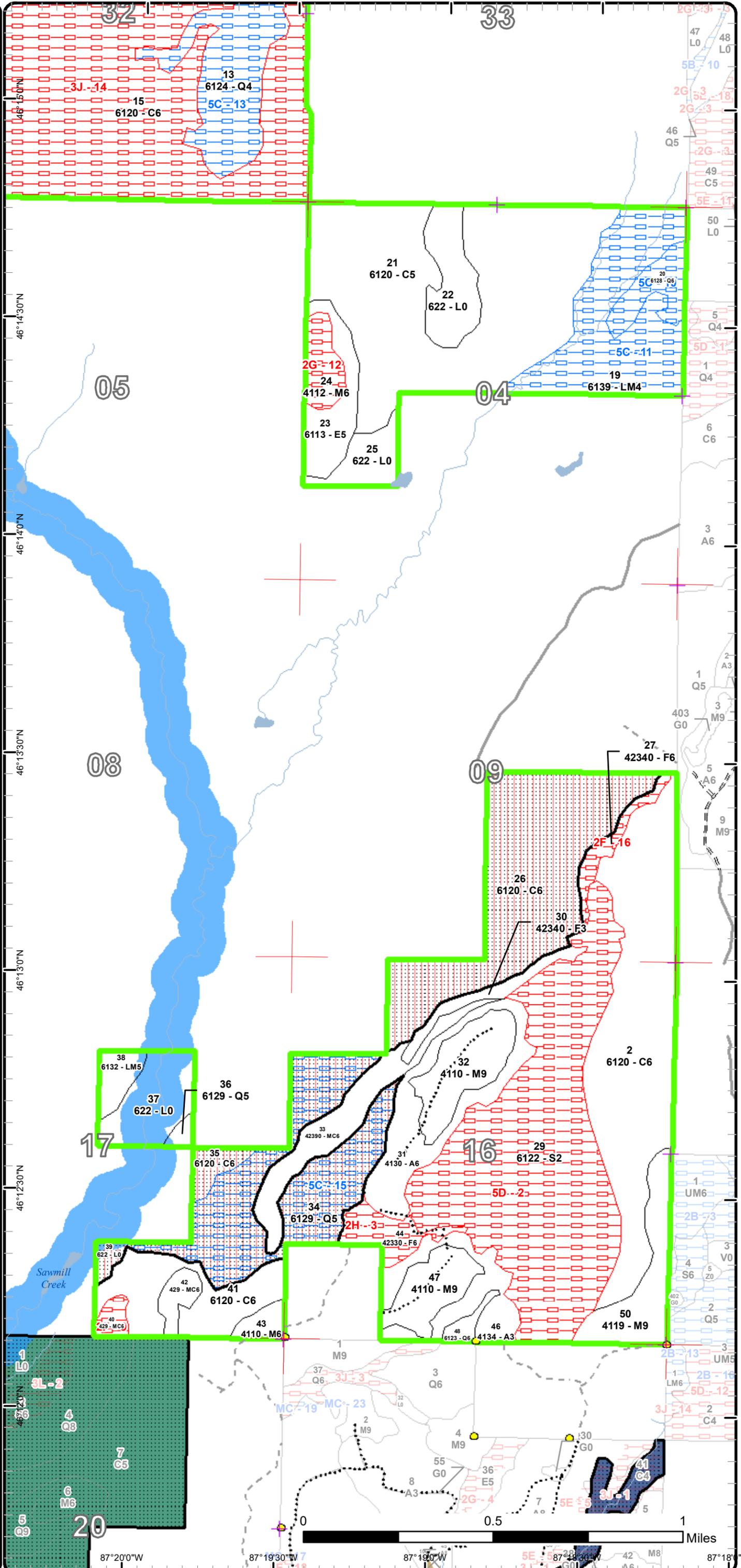


Special Conservation Areas

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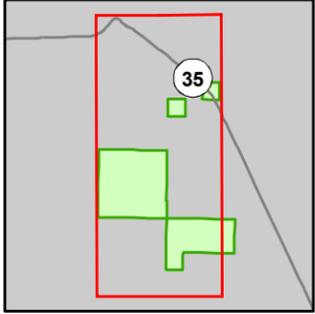


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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Spring or Seep
- Habitat Corridor
- Other SCA (No Category Assigned)

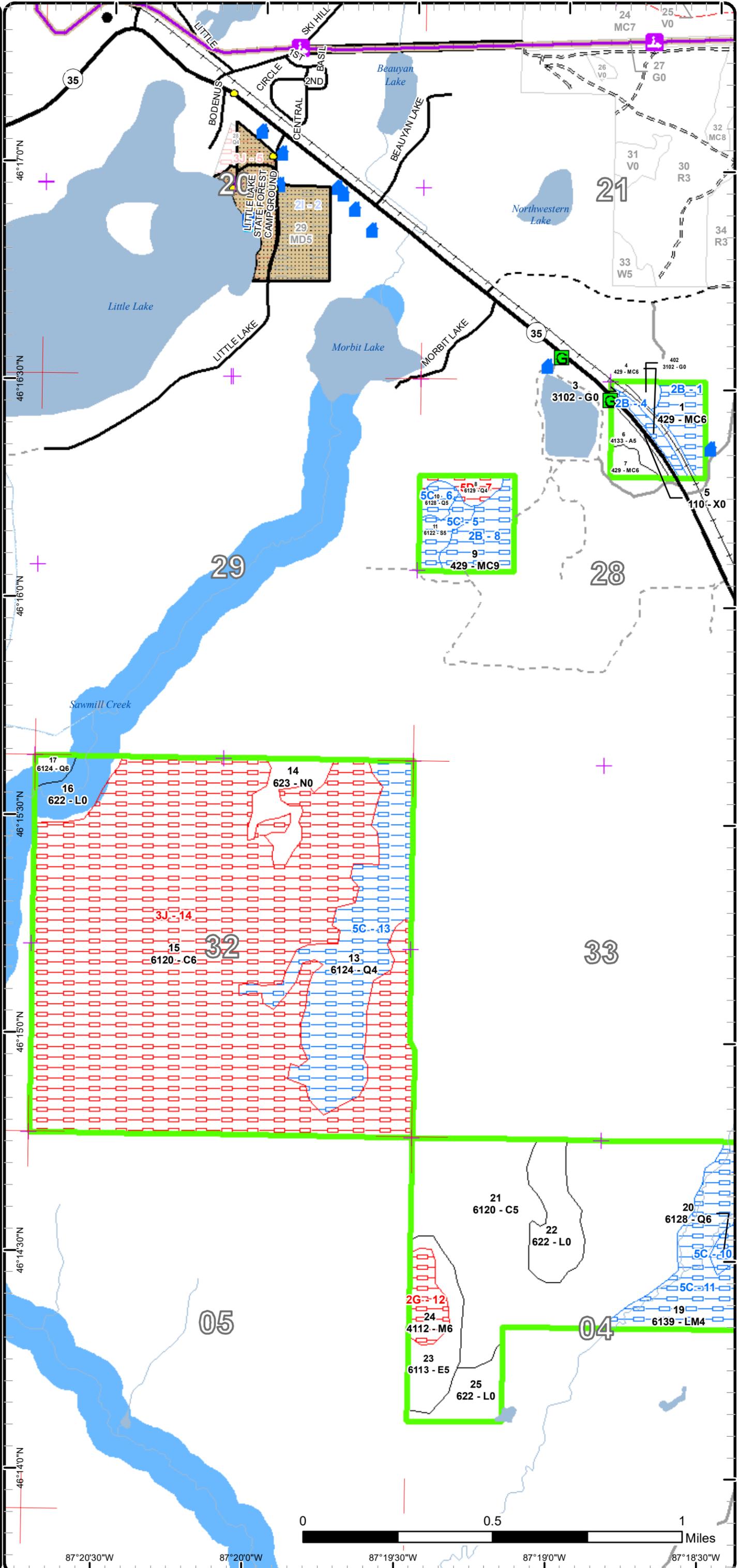


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- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- State Forest Campground
- Rail-Trail Corridor





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 20
Total Compartment Acres: 1,967

Commercial Harvest - 90
Harvests with Site Condition - 19
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood	0	90	0	0	0	0	0	0	0	90
Upland Conifers	0	0	0	19	0	0	0	0	0	19
Total	0	90	0	19	0	0	0	0	0	109

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	109	0	0	0	0	0	0	0	0	109
Next Step	0	0	0	0	0	0	109	0	0	109
Total	109	0	0	0	0	0	109	0	0	217



Stand	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:

1	32020001-Cut	14.4	429 - Mixed Upland Conifers	Poetimber Well	77	81-110	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all but White Pine. Green Tree a few healthy Black Cherry pick the healthiest looking ones. Leave 3-10% retention. This can be cut in the summer as it is good sandy soils. Cut down to 1 inches to remove all of the Balsam Fir regeneration.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory will be acceptable.</p> <p><u>Other Comment:</u> It looks as though the east side of this stand was cut over by the PVT. A survey will be needed in order to confirm that. Access is through School Property to the north and I have had a heck of a time getting a confirmation on if we can go through there property.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
4	32020004-Cut	4.6	429 - Mixed Upland Conifers	Poetimber Well	77	51-80	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all but White Pine. Green Tree a few of the largest healthiest Black Cherry. No retention due to small size. This can be cut in the spring or summer. Cut down to 1 inches to remove all of the Balsam Fir regeneration.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory would be acceptable.</p> <p><u>Other Comment:</u> There will need to be a turn around pushed in for trucks. Permission will be needed from the county as it is a right of way.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
32	32020032-Cut	29.6	4110 - Sugar Maple Association	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, and Cedar. Favor Black Cherry, Yellow Birch and Basswood to keep in the stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory is acceptable.</p> <p><u>Other Comment:</u> May need some crane mats on the road.</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
43 32020043-Cut	6.4	4110 - Sugar Maple Association	Poletimber Well	86	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, and Cedar. Favor Black Cherry and Yellow Birch to keep in the stand.</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> Any tree species currently in the overstory will be acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
47 32020047-Cut	21.9	4110 - Sugar Maple Association	Sawtimber Well	90	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, and Cedar. Favor Black Cherry and Yellow Birch to keep in the stand. Keep a few larger trees over 24" if they exist for wildlife.</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> Any tree species currently in the overstory would be acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
50 32020050-Cut	31.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, and Cedar. Favor Black Cherry, Yellow Birch, and Basswood to keep in the stand. Keep a few larger trees in this stand if possible over 24" stump diameter for wildlife.</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> Any tree species currently in the overstory would be acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment 108.5
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 20

Peter Holodnick: Examiner

Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		2B	5C	2F	2G	2H	3J	5D	
74	74	0	0	Aspen								
998	491	0	507	Cedar						507		
7	7	0	0	Herbaceous Openland								
225	11	208	6	Lowland Conifers		208						6
22	22	0	0	Lowland Deciduous								
87	10	78	0	Lowland Mixed Forest		78						
89	89	0	0	Lowland Shrub								
215	0	9	206	Lowland Spruce/Fir		9						206
18	18	0	0	Marsh								
103	89	0	13	Northern Hardwood				13				
90	46	39	5	Upland Conifers	39		5					
35	11	0	24	Upland Spruce/Fir			9		15			
4	4	0	0	Urban								
1,967	872	333	762	Total Forested Acres	39	294	14	13	15	507	212	
	44%	17%	39%	Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	2B: Unknown if access through adjacent landowner(s) is possible	14	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5D: Unproductive Forest Land	206	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 20

Peter Holodnick: Examiner

Year of Entry: 2022

3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Need permission to make a spur road coming into the stand to turn trucks around.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Cut this stand when stand 10 and 9 are ready.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: The trees need to get bigger in order to cut this. Cut with stand 11 and 9							
7	Unavailable	5D: Unproductive Forest Land	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	2B: Unknown if access through adjacent landowner(s) is possible	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 20

Peter Holodnick: Examiner

Year of Entry: 2022

9	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Its too steep and there isn't much to cut but oversized white pine/hemlock and there isn't much of a market for that.							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Its way too hard to get too for such small amounts of timber.							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	92	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	507	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 20

Peter Holodnick: Examiner

Year of Entry: 2022

15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	95	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wait for the Black spruce to get a little bigger.							
16	Unavailable	2F: Too steep	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
1	429 - Mixed Upland Conifers	Poletimber Well	14.4	77	81-110	N/A	: W7F4, SELECT CUT#18-78 -1979. 2000: Mixed size with W. pine scattered over smaller spruce and fir etc. possible to cut trees other than W. pine probably next time. 2010: Large WP, WS within - a few PB noted. Patches of M,A regeneration (2" dbh) interspersed from 70's cut, also F/S regeneration all heights and sizes - no WP regen noted. Some of the JP within stand is dead/dying already. Blowdown timber and WP snags throughout. Stand could be treated, with access from the private to the north (school forest lands) most likely. Treat adjacent grass opening (stand 402) at this time also. 2002: stand 1.																																											
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2	6120 - Lowland Cedar	Poletimber Well	134.3	117	81-110	N/A																																												
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3	3102 - Grass	Nonstocked	4.0		Unspecified	No	Chicago and Northwestern railroad track and ROW																																											
4	429 - Mixed Upland Conifers	Poletimber Well	4.6	77	51-80	N/A	2000: strip between RR tracks and M-35. Same as stand 1. It is between hwy and RR - permit will be needed from M-DOT for temporary road access. Some dead A, cherry within. Small F3/S3 (20 - 30' hts) along Hwy ROW to leave, as well as smaller PB and all WP. Mark a few large W. spruce to leave. stand 1 when harvested. 2002: stand 10																																											
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5	110 - Low Intensity Urban	Nonstocked	3.8		Unspecified	No	M-35 and ROW - ROW clearing under permit #48-66 (for salvage of timber) completed 11/1966.																																											
6	4133 - Aspen, Mixed Pine	Poletimber Medium	6.4	21	51-80	N/A	CUT UNDER PERMIT 29-85. 2000: Scattered big w. pine left over A3 well-stocked 1"dbh. Some areas mostly red maple and fir under. 2010: Very limited amount of W, H regeneration, but some <2' noted - mostly A, RM, cherry, YB regeneration (2-3" dbh and 25-35' hts) though. Old blue line still visible along south end. 2002: stand 2																																											
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7	429 - Mixed Upland Conifers	Poletimber Well	4.7	77	81-110	N/A	75-80% R MAPLE, Poor timber Quality. 2010: Low quality red maple - large diameter, but pulpwood. Occasional H, S, W, YB and cherry within. Ground cover of club moss, princess pine. Fir regeneration ~ 20' ht. When scheduled, should mark leave-tree maple and remove rest - leave all YB, H, WP. 2002: stand 3																																																																								
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8	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	6.3	87	1-50	N/A	SPRUCE&TAMARACK, TAG ALDER-GROWING SLOWLY LAST 15 YRS. Edge of bog. 2010: Spruce, tamarack, cedar, bunchberry, lab tea, sphagnum - lots of tagalder. Mistletoe in BS. Occasional C regen noted (<= 1' ht). 2002: stand 4																																																																								
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9	429 - Mixed Upland Conifers	Sawtimber Well	20.0	94	51-80	N/A	No real WP regen coming in. SELECTIVELY CUT IN 1978 (Sale #28-77). Ready for another cut in 20 or so years. 2010: No WP regeneration noted; most fir is 20-25' hts. Pocket of 6" dbh aspen. Not a whole lot of volume to remove at this time; when cut is prescribed, schedule scarification to encourage natural WP regeneration and/or follow up with underplanting also. Some dead tops to WP. Ground cover includes: moss, lab tea.																																																																								
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10	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	4.9	96	1-50	N/A	This needs to be cut stands 11 and 9 when they are all ready to be cut. CLEARCUT 1974-75, COMING BACK POORLY TO ASPEN but well-tocked with fir. Some wet spots. Also some w. birch, tamarack and hardwood. Average 4" dbh. Some residual pine. 2010: Regeneration mainly BF - no aspen. Older A, B within in dead/dying - wet stand. Ground cover of sphagnum, lab tea noted and F/S understory is ~ 10-16' hts. Treat with adjacent stand(s) 9,11 when prescribed. (See access notes from stand 7.) 2002: stand 6																																																																								
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11	6122 - Black Spruce	Poletimber Medium	9.1	96	51-80	N/A	Wait until the Black Spruce gets a little bit Bigger and stands 9 and 10 are bigger as well. STARTED STRIPS IN 1975, SCATTERED HDWD, W PINE, ASPEN-GOOD SPRUCE. 2000: Wait and cut with stand 5. 2010: Mixed spp includes PB, T. Sale #001-71 (30 acres) - cut S,F, A, B from 12/71 - 12/74. Scattered strip cuts also prescribed and never completed (sale #043-74 18 acs) - cut ~ 7cords BF and sale closed 1/16/78. Mixed sizes and stocking now. Lower ground is more sphagnum, lab tea - lower BA present. Soils are Carbondale/Tawas and some Crosswell sands. Will require private access to treat - wait and treat with stands 10,11. 2002: stand 7																																																																								
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13	6124 - Lowland Spruce-Fir	Poletimber Poor	92.0	109	1-50	N/A	Mixed softwood includes spruce and tamarack. Soils are Carbondale/Tawas. 2002: stand 12,13																																						
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14	623 - Emergent Wetland	Nonstocked	17.7		Unspecified	No	part of Sawmill Creek Complex. Soils are Carbondale/Tawas.																																						
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15	6120 - Lowland Cedar	Poletimber Well	507.3	153	81-110	N/A	Soils are Carbondale/Tawas.																																						
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16	622 - Lowland Shrub	Nonstocked	15.6	114	Unspecified	No	part of Sawmill Creek Complex. Stand contains Sawmill Creek. Soils are Carbondale/Tawas.																																						
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17	6124 - Lowland Spruce-Fir	Poletimber Well	4.4	112	51-80	N/A	Sawmill Creek Complex. Soils are Carbondale/Tawas. 2002: stand 17																																						
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19	6139 - Mixed Lowland Forest	Poletimber Poor	77.6	109	1-50	N/A	Soils are AuGres-Deford. 2002: stand(s) 19,21,22																																						
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20	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	15.9	96	51-80	N/A	Soils are Carbondale/Tawas. 2002: stand 20																																				
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21	6120 - Lowland Cedar	Poletimber Medium	185.7	103	1-50	N/A	part of Sawmill Creek Complex. Old inventory comment states: "fair quality cedar - patchy to thick, variable sizes". Soils are Carbondale/Tawas.																																				
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22	622 - Lowland Shrub	Nonstocked	25.8		Unspecified	No	part of Sawmill Creek Complex. 2002: stand 28																																				
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23	6113 - Lowland Maple	Poletimber Medium	22.3	184	51-80	N/A	part of Sawmill Creek Complex. Old comment: "mortality of sp and fir. Med. stocked poor timber quality hardwood". No access to stand. Soils are Croswell-Deford. 2002: stand 25																																				
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24	4112 - Maple, Beech, Cherry Association	Poletimber Well	13.4	131	141-170	N/A	part of Sawmill Creek Complex. No access or roads across Sawmill Creek; hardwood island continues onto private ownership also. Old Comment "MED QUAL HDWD POLES(S MAPLE & CHERRY)-POOR Y BIRCH,S MAPLE LOGS-W SPRUCE POLES & LOGS SCATTERED".																																				
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26	6120 - Lowland Cedar	Poletimber Well	121.0	100	51-80	N/A	Patchy cedar, with black ash, BF noted. Slight ridges separate this stand from surrounding lowland stands. Soils are Carabondale - Tawas. 2002: stand 31 Habitat area/corridor SCA.																																								
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27	42340 - Upland Spruce/Fir	Poletimber Well	8.9	98	111-140	N/A	2000: Esker. Turns to F NE. Narrow 1 1/2 chains wide with steep sides in part. Can hold 10 years to get profitable. 2010: Aspen, fir dead/dying out of stand, and being replaced by F/S. No need to treat stand - lots of blowdown and little merchantable volume now. Falls within Sawmill Creek Complex. 2002: stand 29																																								
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29	6122 - Black Spruce	Sapling Medium	205.7	100	Unspecified	N/A	treed bog with primarily spruce and tamarack (2-4" dbh and 26-32' hts). Ground cover noted: lab tea, iris, sedge. Soils are Greenwood-Dawson. 2002: stand 36																																								
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30	42340 - Upland Spruce/Fir	Sapling Well	10.9	11	51-80	N/A	2000: Esker. Steep sides down to bog in spots. Will hold to next time due to small volume and large road work, private land etc. 2010: Blowdown everywhere, mainly aspen and fir - understory coming in thick with F/S (4 - 12' hts). Some large aspen (10-12" dbh average) remains, but it is dying fast - birch is dying also; not enough volume anymore to make harvesting feasible. Would need new road access across wet soils to narrow (and steep) ridge. Some large WP, RP within which may seed in naturally; cedar also noted. 2002: stand 40																																								
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31	4130 - Aspen	Poletimber Well	39.2	25	51-80	N/A	2000: mostly well-stocked A3 1" dbh. Some sparse areas with fir seeding in. cut 1995. 2010: Part of sale # 006-92, "Jacks' Shack Block" (unit 3,6). Aspen (including P) is now 24 - 30' hts. Some maple, cherry, willow (4' hts) and T/S (6 - 15' hts) in understory. Wetter areas contain patchy aspen regeneration with more willow, thistle present. Residual maple left in stand. 2002: stand 35																																								
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32	4110 - Sugar Maple Association	Sawtimber Well	29.6	86	111-140	N/A	Mid quality Maple. 2000: FDFcut 1995. Some areas good regen other areas not-rubus. Shortage of good poles but well stocked sawtimber. 2010: Same comments as last entry. Stand was cut under t. sale #006-92 "Jacks' Shack Block" in the fall, 1993 (units 4,5). Regeneration gaps still remain, with little to no new M regeneration (only 3' hts where noted) - deer browse pressure. Earlier cut(s)* resulted in maple saplings anywhere from 16-20' hts and 1-2" dbh average now, which look good. (* no record of cut - from elm dying out of stand, per old inventory notes maybe?) Old skid roadways have aspen saplings mainly (2-3" dbh and 25' hts). Stand could use treatment to open up around M saplings, but only if successful new regeneration can be established with selection cut - very light marking. Quite a few snags and wildlife trees present. Sawlog trees with large tops, forked. Soils are Shoepac-Trenary. 2002: stand 32																																								
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33	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	33.4	118	51-80	N/A	Lots of terrain. Soils are AuGres-Deford. 2002: stand 41																																								
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34	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	94.7	101	81-110	N/A	Old comments include: "sparse trees with alder", "good balsam and spruce, scattered w. birch pockets, tagalder and cedar". Soils are AuGres-Deford and Carbondale-Tawas. 2002: stand 38,42																																								
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35	6120 - Lowland Cedar	Poletimber Well	8.3	116	51-80	N/A	SCA = habitat area and corridors. Soils are AuGres-Deford. 2002: stand 52																																								
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36	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	2.9	116	51-80	N/A	SCA = old growth potential - part of Sawmill Creek Complex and riparian buffer. Soils are Carbondale-Tawas. 2002: stand 53																																								



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38	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	9.7	116	1-50	N/A	SCA = old growth potential - part of Sawmill Creek Complex. Soils are Carbondale-Tawas. 2002: stand 54																																																
39	622 - Lowland Shrub	Nonstocked	4.2		Unspecified	No	SCA = old growth potential, part of Sawmill Creek Complex. Lowland stand with riparian influence. Soils are Carbondale-Tawas. 2002: N/A																																																
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40	429 - Mixed Upland Conifers	Poletimber Well	5.0	96	111-140	N/A	Mixed conifers (S,F,H,C,W) with lowland hardwoods on a series of subtle ridges within swamp. Soils are Shoepac-Trenary. 2002: N/A																																																
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41	6120 - Lowland Cedar	Poletimber Well	41.6	102	141-170	N/A	Old comment: "poor spruce and cedar on low ground between ridges". Mixed softwood includes H,W,S,F. Small S/F and red maple regeneration noted. Cedar ~40 -55' hts. Soils are Tawas-Deford. 2002: stand 49																																																
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42	429 - Mixed Upland Conifers	Poletimber Well	7.7	96	81-110	N/A	Mixed conifers (S,F,H,C,W) with lowland hardwoods on a series of subtle ridges within swamp. Soils are Shoepac-Trenary. 2002: stand 51																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
43	4110 - Sugar Maple Association	Poletimber Well	6.4	86	141-170	N/A	T. sale # 034-90 - cut Fall, 1991. Stand also includes strip of P3 (2-4" dbh, 30'hts - some trefoil noted in understory here) which was cut at the same time and will be left. Manage with stand 32 and 47 for marketability and access purposes when cut, or, possibly negotiate when sale to the south is thinned ("Parker End Sale" #012-08). Not much M regeneration; what was noted was heavily browsed/dead. May not be able to regenerate well. Some large diameter, pulp-quality red maple within, as well as YB and basswood. Maintain stand diversity, when marked. Soils are Shoepac-Trenary. 2002: stand 50		
Canopy Species		% Cover	Size Class	DBH	Age				
Sugar Maple		85	Log/Pole	14	86				
Red Maple		5	Log/Pole	12					
Balsam Fir		9	Sapling/Pole/Log	4					
Yellow Birch		1	Pole/Log/Sap	8					
44	42330 - Upland Fir	Poletimber Well	15.1	21	81-110	N/A	2000: aspen mature. Decent understory of hemlock 4-8" dbh. Leave hemlock when cut. Leave red maple too? 2010: Stand will eventually convert if aspen is allowed to die out, otherwise could remove A,B, S/F and some RM. Will need to protect residual species, which may present operability issues. There is quite a bit of hemlock here, in patches, and some WP, C, and H regeneration was noted. May wish to underplant W/H, if harvest. Mixed spp include: WP,YB, S. Soils are Charlevoix-Ensley. 2002: stand 44		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		60	Sapling/Pole/Log	2	21	White Pine	Low	5 - 10 feet	Sapling
Tamarack		5	Sapling/Pole	3		Balsam Fir	High	5 - 10 feet	Sapling
Quaking Aspen		10	Log/Pole/XLog	12					
Red Maple		10	Log/Pole/XLog	10	98				
White Pine		5	XLog/Log/Pole	20					
Black Spruce		5	Pole/Sap/Log	6					
Northern White Cedar		2	Pole/Sap/Log	8					
Hemlock		3	Log/Pole/Sap	10					
46	4134 - Aspen, Spruce/Fir	Sapling Well	28.5	26	Immature	N/A	2000: mostly well-stocked 1" dbh aspen but some sparse areas with small fir seeding in. cut Fall, 1993. 2010: Part of "Jacks' Shack Block" sale # 006-92 (unit 1) - cut Sept, 1993. Some residual M within. Soils are part Ensley muck. 2002: stand 46		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		60	Sapling/Pole	4	26				
Balsam Fir		30	Sapling/Pole	2					
Hemlock		5	Log/Pole/XLog	10					
Black Cherry		5	Sapling/Pole	4					
47	4110 - Sugar Maple Association	Sawtimber Well	21.9	90	81-110	N/A	2000: good regen including older 10 ft regen in spots. Some post logging mortality. Overall good quality stand. 2010: Sale #006-92 "Jacks' Shack Block" (unit 2) - cut Sept, 1993. M regeneration very limited - deer pressure. Aspen regen mainly along old trail roadways. Thin stand lightly and only if adjacent stands are harvested, due to access and merchantability. Mixed hardwood includes basswood, YB. Ground cover of sweet cicely, thistle noted. Soils are Shoepac-Trenary. 2002: stand 43		
Canopy Species		% Cover	Size Class	DBH	Age				
Sugar Maple		65	Log/XLog	14	90				
Basswood		12	Log/Pole/XLog	12					
Red Maple		13	Log/Pole/XLog	10					
Yellow Birch		5	Pole/Log	8					
Black Cherry		5	XLog/Log	8					
48	6123 - Lowland Fir	Poletimber Well	4.1	25	1-50	N/A	sparse; some blowdown. Soils are Dawson-Greenwood. 2002: stand 47		
Canopy Species		% Cover	Size Class	DBH	Age				
Balsam Fir		70	Sapling/Pole	2	25				
Black Spruce		5	Log/Pole	10					
Northern White Cedar		10	Pole/Sap/Log	8					
Black Ash		10	Sapling/Pole	3					
Quaking Aspen		5	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
50	4119 - Mixed Northern Hardwoods	Sawtimber Well	31.6	86	111-140	N/A	<p>2000: lots of swales. Poor timber quality except 2 acres south end. Hemlock and cedar in spots.</p> <p>2010: STAND SHOULD BE TREATED WITH COMPARTMENT 19, STAND 1 - 2011 POW. Last examiners comments are accurate - stand is full of swales and vernal areas, which will have to be accessed, in places. Will be difficult to segregate from treatment area, and treatable stand acres will definitely be lower once exclusions are established. There is a nice patch of hardwood at the south end (soils are Escanaba), with some nice cherry stems which will be thinned under marking guidelines. Most A,P should be removed, as it is overmature and dead/dying - some can be left along boundary edges and within any exclusions. Retain components of all species for diversity - either through marking or exclusions. Mark any w. spruce to cut, but remove all BF as it is dead/dying - plenty of regen. Some areas do contain thicker pockets of M regeneration, which should be enhanced, if possible. Access will be through the private corporate lands to the south (which have been thinned within the last year or two), and property lines have already been established - will need permission to cross. Ground cover noted includes: starflower, violets, club moss, princess pine. Winter logging is recommended - in addition, will probably need equalization tube/culvert crossing through center of stand. Soils are Escanaba and Shoepac-Trenary.</p>																																			
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402	3102 - Grass	Nonstocked	2.7		1-50	Managed Opening	<p>Some encroachment of JP, RP, and small WP. A few scattered merchantable trees, mainly JP (ranges from 2 - 5" dbh and 8 - 37' hts). If desire to maintain G opening, cut trees when adjacent stand is harvested. Bracken fern, grass, lichen ground cover noted. 2002: stand 402</p>																																			