



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32029

Entry Year: 2026

Acreage: 1,363

County: Marquette

Management Area: Suomi Till and Outwash Plain

Stand Examiner: Sean Fischer

Legal Description:

T45N R24W Section(s) 5, 8, 9, 16, 17, 20, 21

Identified Planning Goals:

To maintain the health and sustainability of the forest while providing for recreational, wildlife and fisheries concerns and needs.

Soil and topography:

The compartment is on the east side of a sand outwash plain transitioning to a moraine topography further east with better soils. Extensive fire history. Primarily level Rubicon, Grayling and Croswell sands with transition to Rousseau-Ocqueoc fine sand and Garlic-Alcona-Voelker complex.

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

Private lands with permanent, year-round residences surround and are interspersed within the compartment.

Unique Natural Features:

See MNFI comments.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Numerous lakes are in the area and within the compartment. Area has an extensive early logging and mining history. Potential for linear-leaved gentian, Hill's thistle, and Canada rice-grass in openings in jack pine. Potential for Wiegand's sedge, black sedge, and marsh grass-of-Parnassus in boggy areas. Potential for submergent and emergent marsh species in small lake and creeks: auricled tway-blade, autumnal water starwort, alternate-leaved water-milfoil, Farwell's water-milfoil, alga pondweed, small yellow water-lily, American shore-grass, linear-leaved gentian and veiny meadow-rue.

Watershed and Fisheries Considerations:

Fisheries Values: Minimal

Fisheries Concerns: The northern tier of this compartment is located in the Chocolay River watershed (ELSMU). No prescribed treatments are near any waterbodies. Standard BMP's should be applied near any wetland areas.

Wildlife Habitat Considerations:

This compartment is found within the Soumi Till and Outwash Management Area, on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for the Soumi Till and Outwash Management Area: Blackburnian Warbler, Golden-winged Warbler, Kirtland's Warbler, Red Crossbill, Black-backed Woodpecker, Ruffed Grouse, American Marten, White-tailed Deer, Black Bear.

Mineral Resource and Development Concerns and/or Restrictions

Sections 5, 8, 9, 16, 17 & 21, T45N-R24W, Marquette County

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and an end moraine of coarse-textured till. The glacial drift thickness varies between 10 and 200 feet. The Cambrian Munising Group and Precambrian Archean Granite/Gneiss subcrop below the glacial drift. The Granite/Gneiss has dimension stone characteristics in some

areas. There are no gravel pits in the area, but potential should be good on the uplands. Abandoned iron mines are located four miles to the southwest, but economic iron probably has been removed from this area. This State land has not been previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Good access throughout via primarily sandy two-track roads. Roads are generally hard to block.

Survey Needs:

Section 20

Recreational Facilities and Opportunities:

Little Lake State Forest campground. Boat access sites at Little Lake, Sporley Lake. Snowmobile trail runs through the compartment. Popular area for blueberry picking. Heavily used area by nearby residents for hunting, skiing, hiking and other activities.

Fire Protection:

This area historically has a high fire frequency, due to urban interface and timber types. Much of the area north of Little Lake burned in a large 6,000 acre wildfire in 1986.

Additional Compartment Information:

Area has become a dumping ground for household trash.

The following reports from the Inventory are attached:

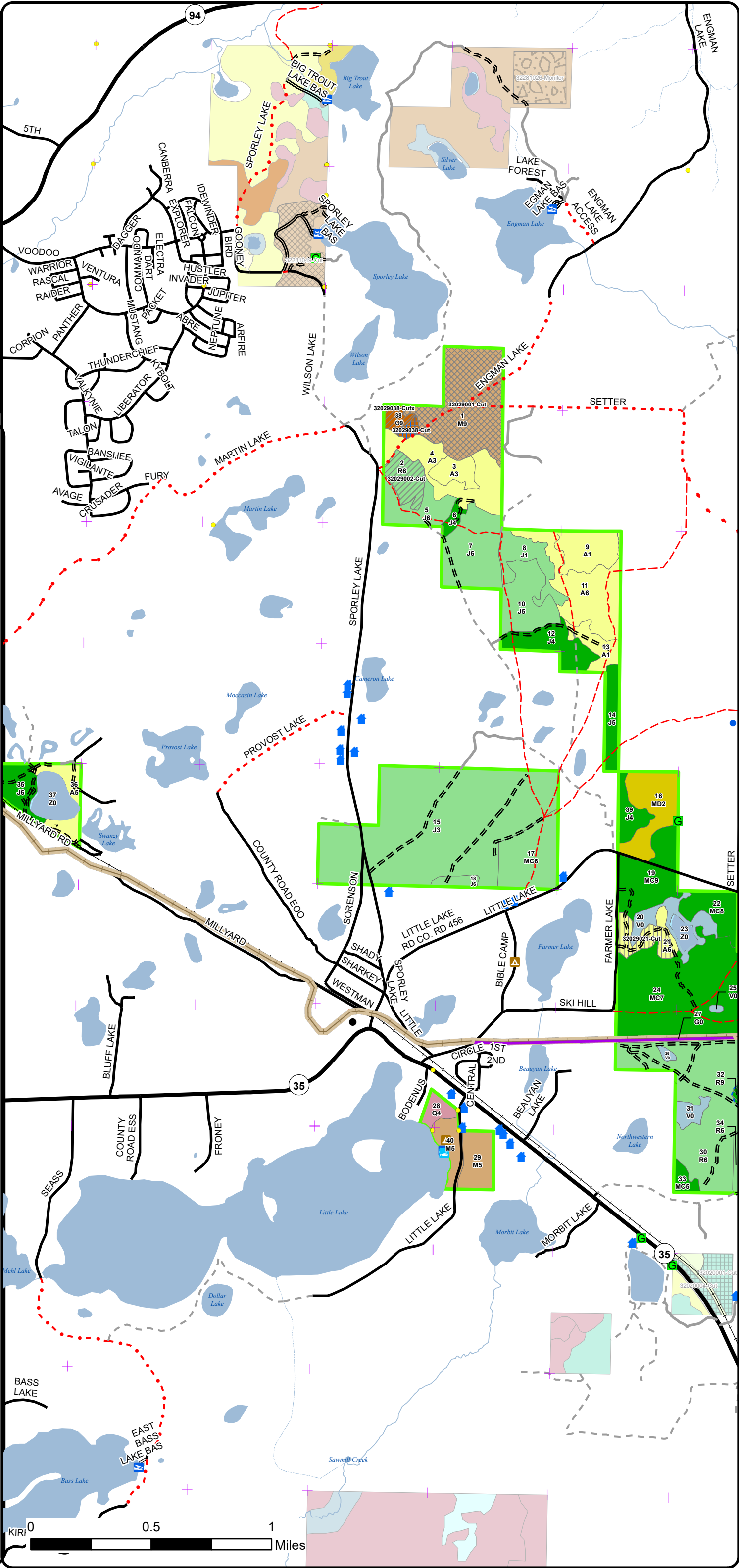
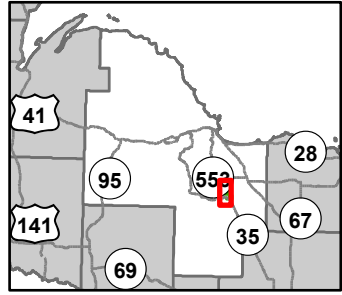
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

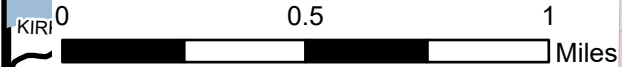
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Overview Map

Compartment: 32029
 T45N, R24W, Sec: 5, 6, 8, 9, 16,
 17, 20, 21
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Suomi Till and
 Outwash Plain
 YOE: 2026
 Acres: 1363 GIS Calculated
 Examiner: Sean Fischer
 Map Revised: 10/22/2024
 Map Phase: Post Review

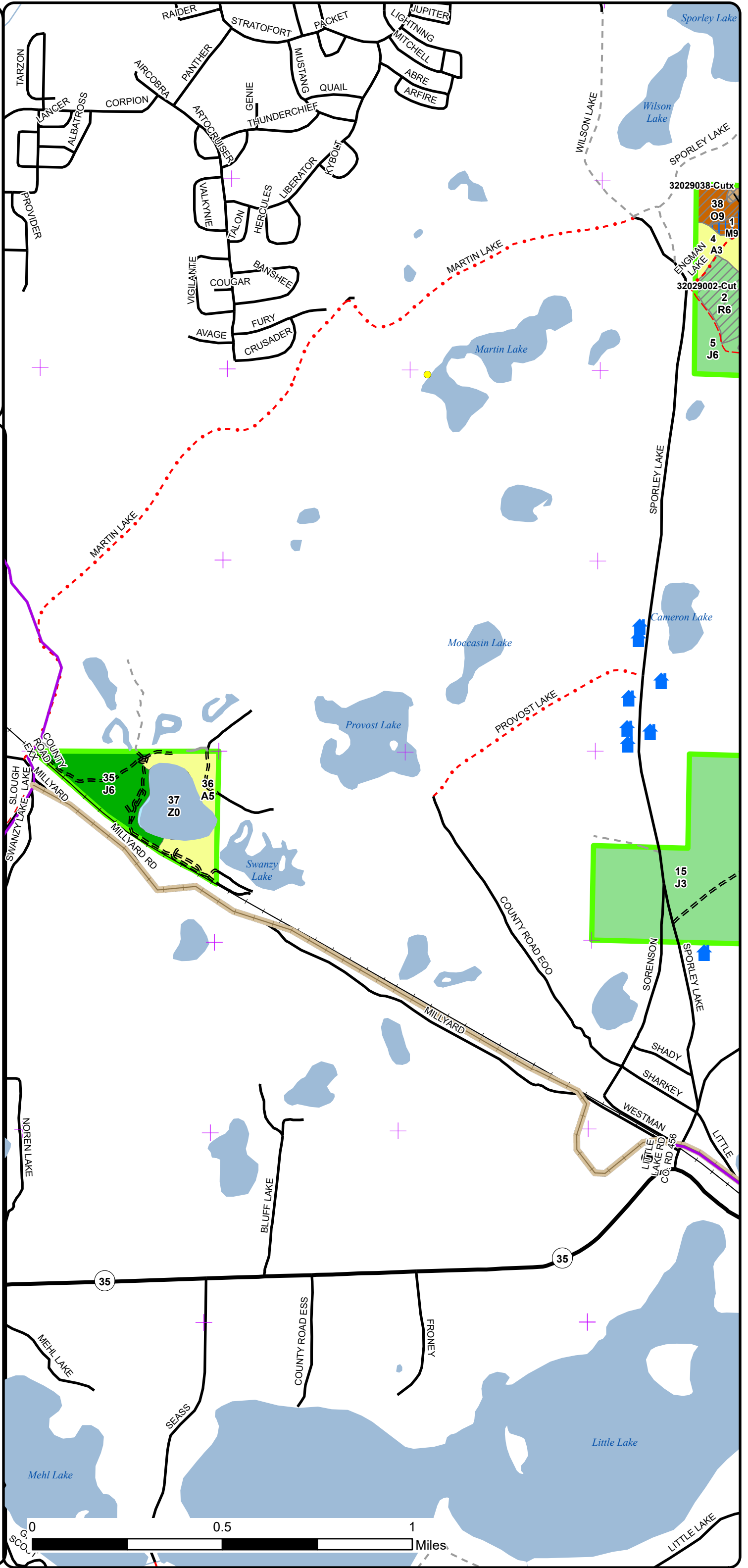
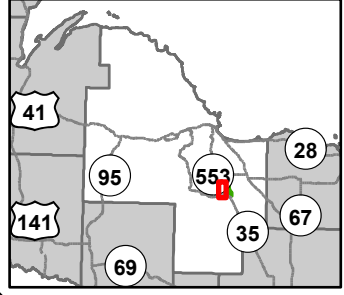


- - - Designated ORV Routes
- RailTrail
- + Remonumented Section Corners
- Survey Grade Corners
- House
- G Gate
- B Boating Access Site
- A Campground
- City
- F Fishing Access Site
- Tower
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Other Harvest - See Comments
- Selection (Group, Single Tree)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub

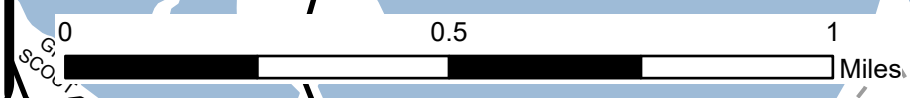


Cover Type & Treatments Map

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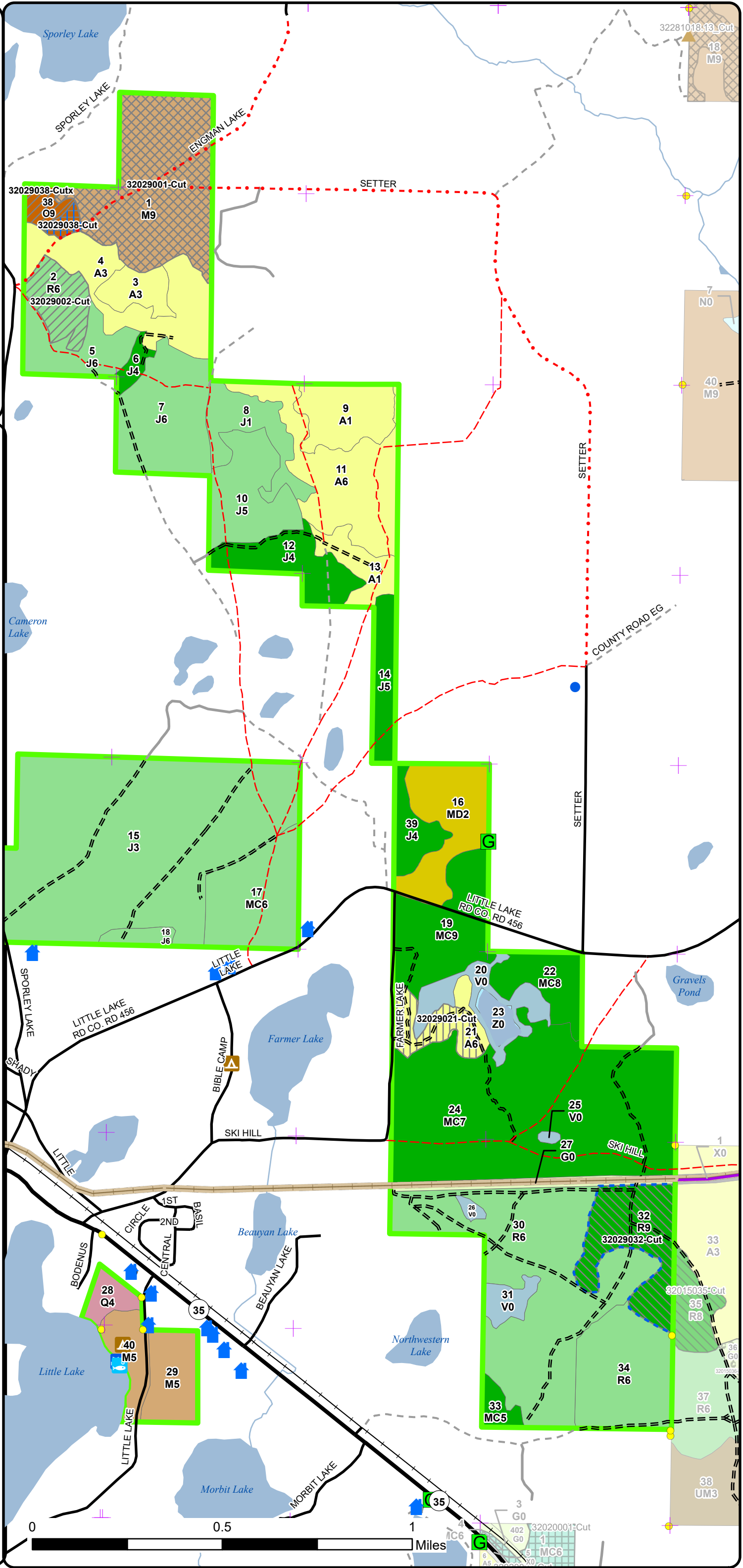
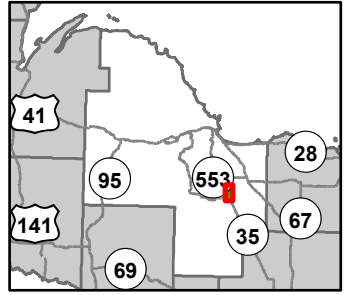


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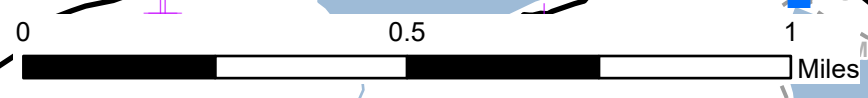


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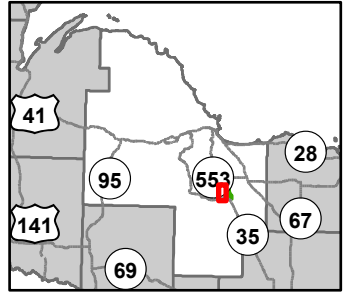


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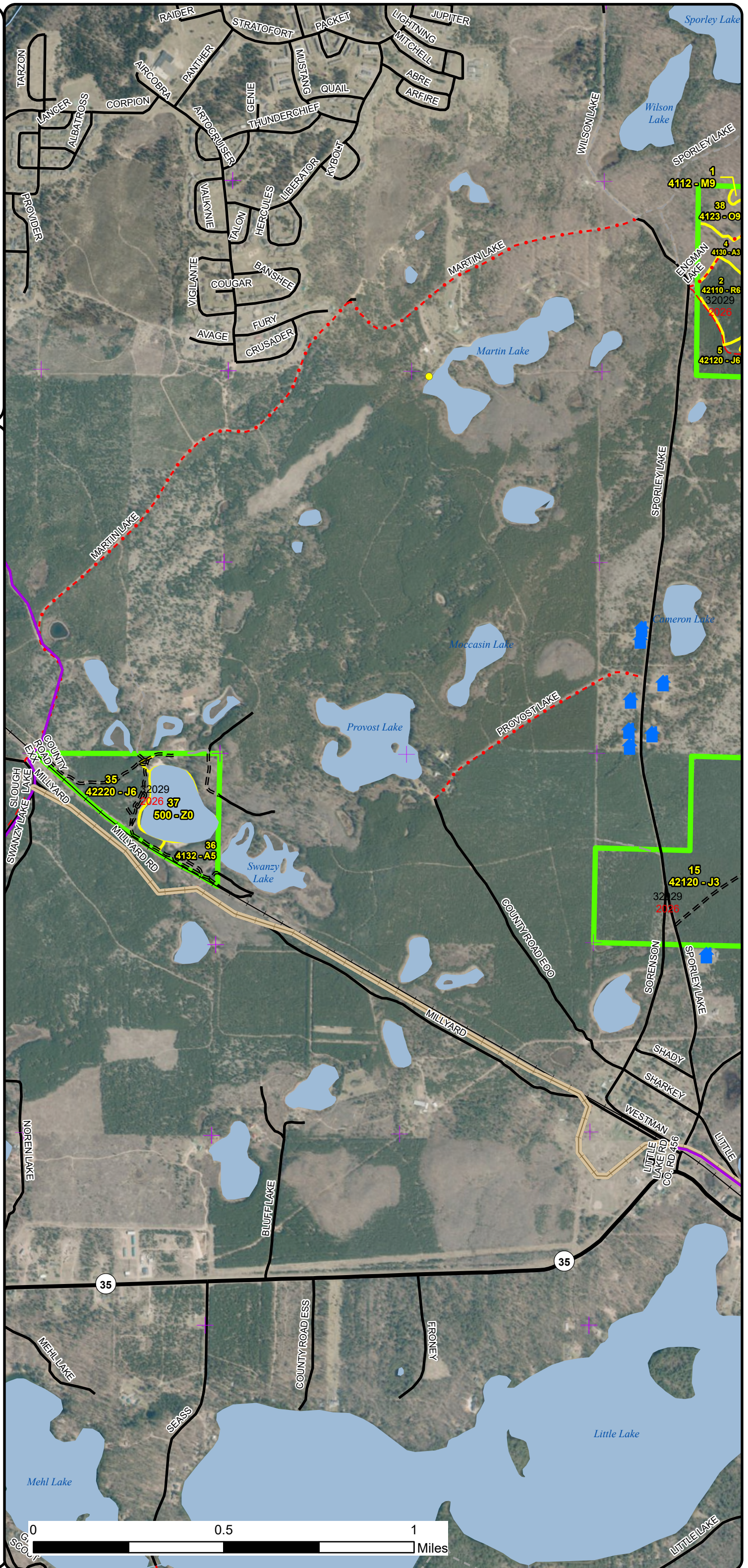


Stand Boundary Map

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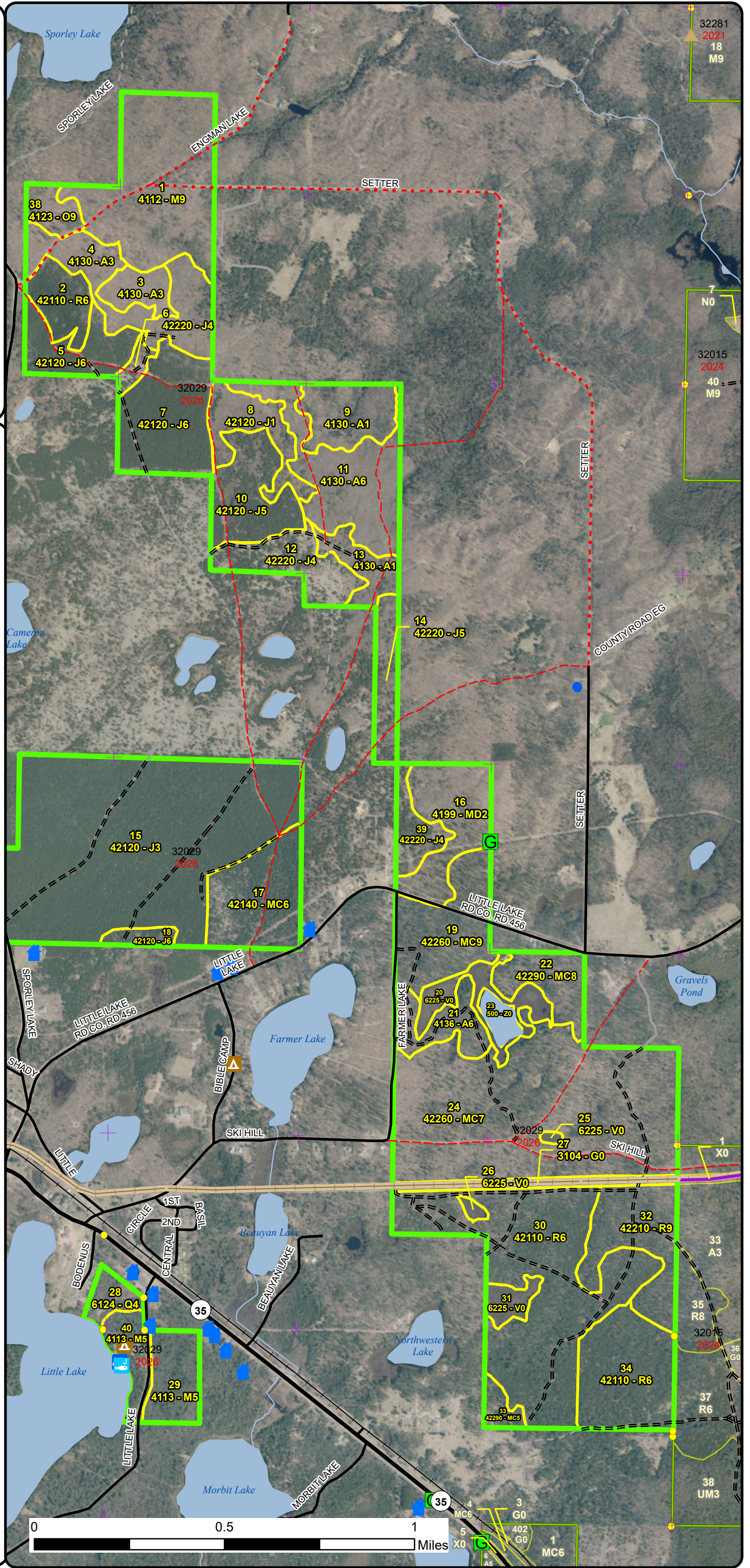
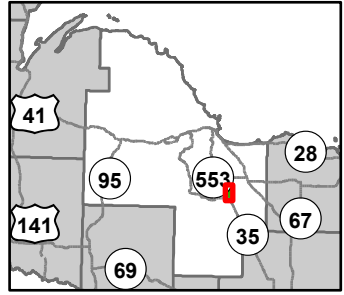


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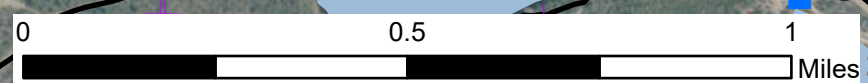


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32281
2021
18
M9

7
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35
R8

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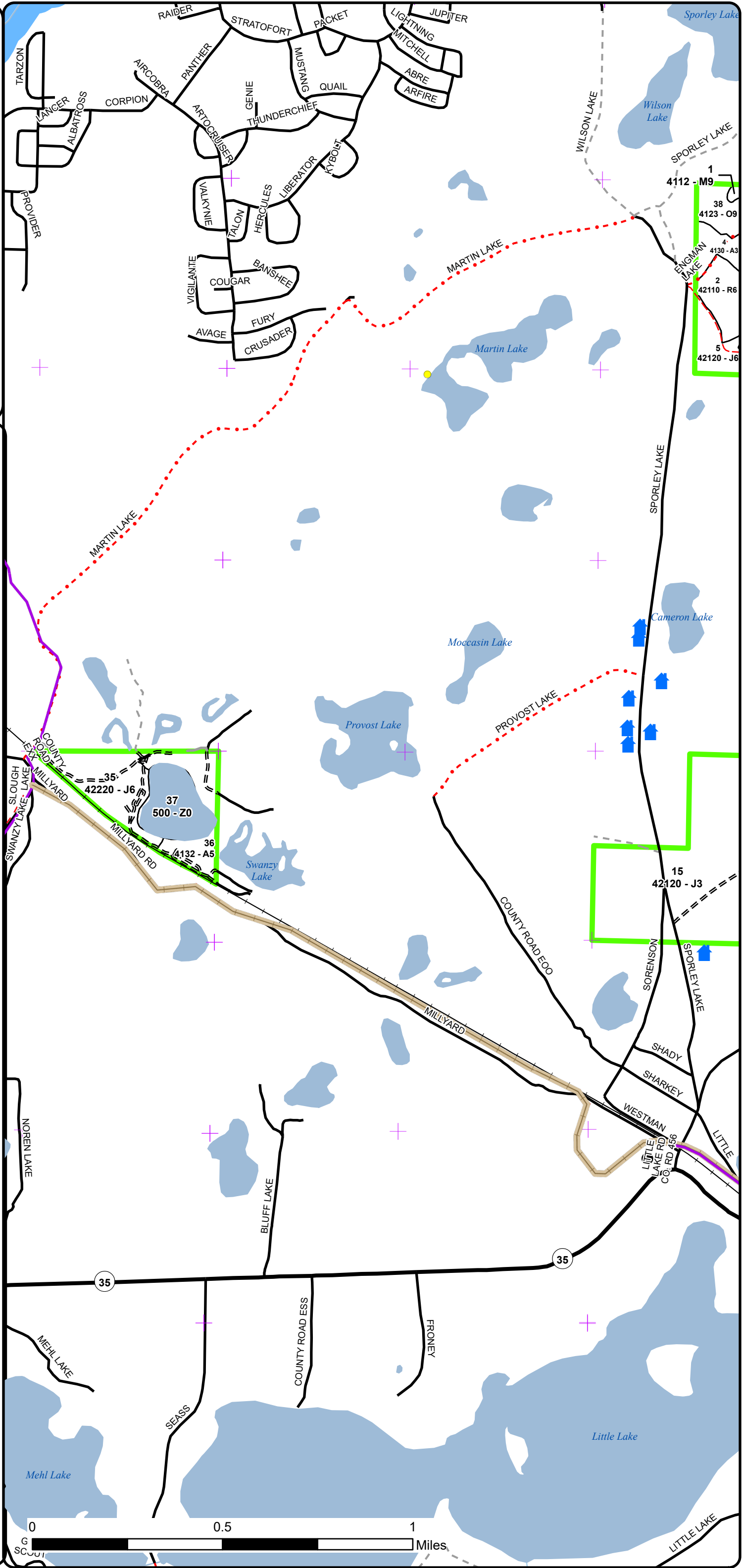
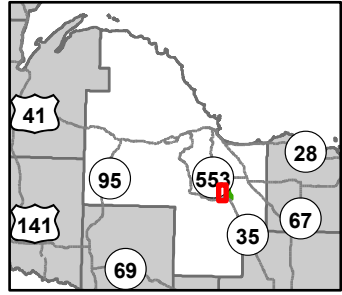
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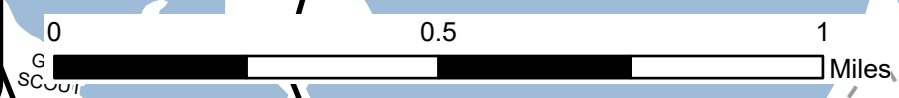
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MC6
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6
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1
MC6

Special Conservation Areas & Site Conditions Map

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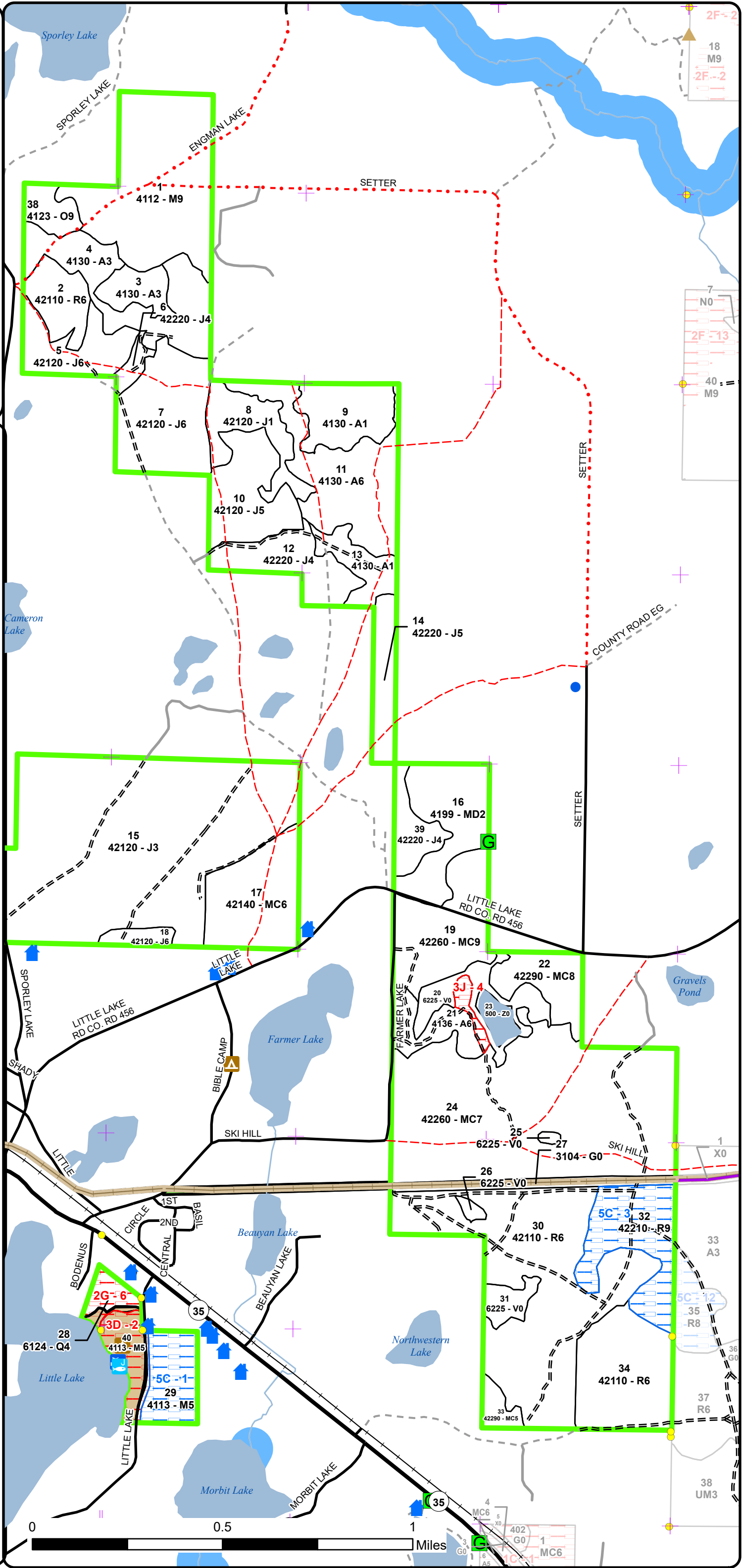
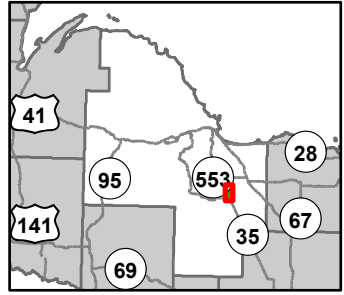


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- ▭ Compartment Boundary
- ▭ Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

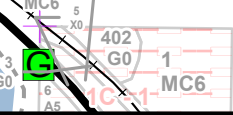
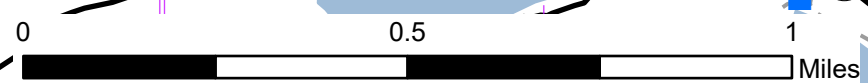


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- Compartment Boundary
- SCA
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- State Forest Campground
- Trail - Trail Corridor



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	25	12	42	18	65	19	0	0	0	0	0	0	0	0	0	0	0	181
Bog	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Jack Pine	0	0	0	0	422	22	0	0	0	0	0	0	0	0	0	0	0	0	444
Lowland Conifers	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	0	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Natural Mixed Pines	0	0	0	0	0	0	0	6	0	0	63	0	0	0	0	0	0	169	238
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	36	82	0	0	0	0	0	0	118
Oak	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	10
Planted Mixed Pines	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	40
Red Pine	0	0	0	121	64	0	0	0	0	0	38	0	0	0	0	0	0	0	223
Water	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Total	64	25	12	163	540	127	19	6	0	9	137	92	0	0	0	0	0	169	1363



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 29

Total Compartment Acres: 1,363

Commercial Harvest - 125
 Harvests with Site Condition - 38
 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	0	0	0	0	15	0	0	0	0	15
Northern Hardwood	0	83	0	0	0	0	0	0	0	83
Oak	0	0	0	4	0	6	0	0	0	10
Red Pine	0	0	0	0	0	17	0	0	38	56
Total	0	83	0	4	15	24	0	0	38	163

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	163	0	0	0	0	0	0	0	0	163
Next Step	0	76	76	0	0	76	216	0	0	445
Total	163	76	76	0	0	76	216	0	0	609



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

1	32029001-Cut	82.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	105	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark to 70-80 BA. Favor retention of quality pole and small log trees, especially those between 8 and 14 inches in diameter. Mark for spacing using the complete marker.</p> <p><u>Specs:</u> Mark approximately 2 canopy gaps per acre approximately 50ft in diameter, marking all merchantable and unmerchantable stems 2"+ in diameter within the gap. Retain all hemlock, white pine, yellow birch. Mark to favor retention of healthy black cherry or to encourage cherry reproduction where possible.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Sugar maple, red maple, red oak, aspen, white spruce, white pine, hemlock, black cherry, paper birch, yellow birch, basswood, and other typical northern hardwood species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
2	32029002-Cut	17.4	42110 - Planted Red Pine	Poletimber Well	38	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark every third planted row of red pine in orange paint. Mark jack pine, aspen, and red pine outside of every third row as needed for equipment operability.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> n/a</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
21	32029021-Cut	15.4	4136 - Aspen, Mixed Conifer	Poletimber Well	52	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Cut all species 2" dbh and greater, except do not cut oak, red pine, white pine, or spruce. Residual BA should be between 30-50 on average, but will vary throughout the stand. Green tree any suitable, wildlife-quality bigtooth aspen for reserve trees as raptor and woodpecker habitat. Large diameter, forked aspen should be chosen.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Oak, aspen, red pine, white pine, paper birch, red maple, sugar maple, white spruce, black spruce, jack pine, and yellow birch.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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38	32029038-Cut	3.5	4123 - Red Oak	Sawtimber Well	105	111-140	Harvest	Seed Tree with Retention	412 - Oak Types	Two-Aged	No
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Prescription Mark to leave 20-30 BA of largest diameter red oak. Cut all other trees down to 1 inch in dbh. Leave all black cherry, hemlock, white pine.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Northern red oak, aspen, white pine.
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

38	32029038-Cutx	6.3	4123 - Red Oak	Sawtimber Well	105	111-140	Harvest	Crown Thinning	412 - Oak Types	Even-Aged	No
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Prescription Thin stand from above to 80-100 BA to promote crop trees. Cut all fir and aspen. Retain legacy oak (>26"), and other large diameter oak where possible. Retain all hemlock, white pine, yellow birch, and black cherry.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

Approved Treatments:

32	32029032-Cut	38.2	42210 - Natural Red Pine	Sawtimber Well	92	81-110	Harvest	Other - Specify	42210 - Natural Red Pine	Even-Aged	No
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Prescription Use variable density thinning method as described in interim guidance on natural pine. Thin stand to a residual of 70-90 BA, maintaining a variety of size classes of trees, but overall favoring retention of the largest size trees available. BA should vary throughout the stand, but maintain an average of 70-90. Favor species diversity in the trees retained. Favor retention of legacy trees (>26" in diameter) and wildlife trees (those with rot or cavities). Attempt to encourage natural pine regeneration by thinning more heavily in areas with pine regeneration establishing.
Specs:

Next Step Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial
Treatments: Regen(3yr); SitePrep, Roller Chopping; Planting, Replant; Pesticide, Aerial - Release; Monitoring, Herbi

Acceptable red pine, white pine
Regen:

Other Review "Interim Guidance for Approving Natural Pine Treatments Aug 12 2024" FRD Memorandum
Comment:

Use snowmobile trail hauling spec to maintain snow mat, keep shoulder clear of stumps and slash

Site Condition: Age-Class or Site Quality

Proposed Start Date: 10/1 /2025

Total Treatment 163.3
Acres Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Sean Fischer: Examiner

Compartment: 29
Year of Entry: 2026



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	2G	3D	3J
180	177	0	4	Aspen				4
29	29	0	0	Bog				
12	12	0	0	Herbaceous Openland				
444	444	0	0	Jack Pine				
9	0	0	8	Lowland Conifers		8		
36	36	0	0	Mixed Upland Deciduous				
238	238	0	0	Natural Mixed Pines				
118	82	21	15	Northern Hardwood	21	0	15	
10	10	0	0	Oak				
40	40	0	0	Planted Mixed Pines				
224	186	38	0	Red Pine	38			
23	23	0	0	Water				
1,363	1,277	59	28	Total Forested Acres	59	9	15	4
	94%	4%	2%	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	21	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Wait to harvest with a nearby stand when a greater number of desirable treatments are available in the area. Potentially exclude wet ground white pine area in center of stand when stand is treated.</p>							
2	Unavailable	3D: Recreational / Scenic values	15	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Sean Fischer: Examiner

Compartment: 29
Year of Entry: 2026



3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 9/2023: Treatment on hold pending final guidance on natural pine.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer along road in eastern part of unit to stay 100ft from open water.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Treatment undesirable because stand portion west of Little Lake Road is the Little Lake State Forest Campground							

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	4112 - Maple, Beech, Cherry Association	Sawtimber Well	82.4	105	81-110	N/A	Select cut as "Sporley Lake Block" #20-78A - summer, 1979 and "Engman Lake Hardwood" #010-96 (unit 1-6) - fall, 1996 - summer, 1997, summer 1998. Some hardwood TSI also completed under FTP C32-12 - October, 1979 in conjunction with t. sale contract. Rolling terrain. Variable stand. Some small areas heavier to oak logs with oak seedlings noted transitioning into more maple with oak component and cherry poles, south edge of stand. The poletimber established by past treatments is mostly overtopped and low quality. Northern part of stand is heavier to sugar maple and red maple. Black knot on cherry. Heavier fir understory in areas with higher maple canopy. Canopy closed, stand is ready for a harvest.	
Canopy Species		% Cover	Size Class	DBH	Age			
Sugar Maple		56	Log/Pole/XLog	11	105			
Red Maple		20	Log/Pole/XLog	11				
Yellow Birch		2	Pole/Sapling	7				
Red Oak		10	XLog/Log	22	105			
Paper Birch		1	Pole/Sapling	5				
Quaking Aspen		2	Pole/Sapling	5				
Balsam Fir		2	Pole	6				
White Pine		1	XLog	28				
Hemlock		1	Log/XLog	14				
Black Cherry		5	Log/Pole	10				
2	42110 - Planted Red Pine	Poletimber Well	17.4	38	141-170	N/A	"Sporley Lake Salvage Block" #017-86 - harvest Sept-Oct, 1986. FTP C32-393 - planted RP in 1989 (3-0 stock). Red pine ~ 42' hts. Aspen and hardwood poles in stand at north and east boundaries. Jack pine mixed in throughout. Ground cover of blueberry, sweetfern, St Johns Wort.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		3	Pole/Sapling	5	38			
Quaking Aspen		5	Pole	6	38			
Red Pine		75	Pole	6	38			
Jack Pine		15	Pole	5	38			
Serviceberry (Juneberry)		2	Sapling	1				
3	4130 - Aspen	Sapling Well	11.7	15		N/A	"Sporley Fire Edge Sale" #006-06-1 (unit 2,3) - cut summer, 2008. Harvest did not include any oak, red pine, white pine, hemlock or cedar. Some as just trace amounts within stand. Ground cover of sweetfern, braken noted.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		5	Pole/Sapling	6				
Quaking Aspen		85	Sapling	1	15			
Jack Pine		2	Pole	6				
Red Oak		5	Log/Pole	12				
White Pine		3	Log	14				
Sub-Canopy Species		Density	Avg. Height	Size				
Red Pine		Low	< 5 feet	Seeding				
Willow spp.		Low	5 - 10 feet	Tall Shrub				
Hazelnut (Beaked)		Medium	< 5 feet	Tall Shrub				
Jack Pine		Low	< 5 feet	Seeding				
Red Maple		Medium	< 5 feet	Sapling				
4	4130 - Aspen	Sapling Well	41.7	26	Immature	N/A	"Engman Lake Hardwood" #010-96 (unit 7) - cut summer, 1997. Also west portion cut as part of "Sporley Fire Edge Sale" #006-06-1 (Unit 1, W. part Unit2) - cut spring, 2007. Oak, white and red pine left. Trace amount of cherry within.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		2	Log	16				
Red Pine		2	Log	16				
Paper Birch		5	Sapling/Pole	4				
Red Maple		4	Sapling	3				
Jack Pine		2	Pole/Sapling	7				
Red Oak		5	Log/Pole	12				
Quaking Aspen		40	Sapling/Pole	4	26			
Bigtooth Aspen		40	Sapling/Pole	4	26			
Sub-Canopy Species		Density	Avg. Height	Size				
Red Oak		Medium	>20 feet	Sapling				
Jack Pine		Low	Variable	Sapling				
Hazelnut (Beaked)		Medium	< 5 feet	Tall Shrub				
Willow spp.		Low	< 5 feet	Tall Shrub				
Red Maple		Medium	Variable	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
5	42120 - Planted Jack Pine	Poletimber Well	23.1	35	81-110	N/A	"Sporley Lake Salvage Block" #017-86 - harvested Sept - Oct., 1986. FTP C32-393: trench/plant JP 1989. Jack pine ~ 40' hts. Ice storm(s) in early 2020's likely caused mortality of 5-10% of stems. Ground cover of blueberry, bracken fern, sweetfern. Trace amount of maple present.																																									
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6	42220 - Natural Jack Pine	Poletimber Poor	4.5	38	1-50	N/A	Jack pine seeding in old grass type. Burned in 1986.																																									
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7	42120 - Planted Jack Pine	Poletimber Well	46.2	37	111-140	N/A	"Sporley Lake Salvage Block" #017-86 - harvested Sept - Oct, 1986. FTP C32-393: trench/plant JP (herbicide w/Velpar) - 1989. Part of fire site from 1986. Jack pine ~ 33' hts; north side of road slightly larger in diameter (6"). Low to moderate mortality of jack pine in stand likely from ice storm(s) that occurred in early 2020's. Ground cover of sweetfern, bracken fern, blueberry, grasses. Road edges with juneberry, cherry.																																									
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8	42120 - Planted Jack Pine	Sapling Poor	22.0	41	Unspecified	N/A	FTP 32-323: 24 acres machine planted (7x7) w/ 2-0 JP May, 1985 (15,000 seedlings) and W. 1/2 re-planted 1989 (FTP 32-393). Stand under stocked, site appears poor quality. Most saplings range from 3 - 10 feet in height. A few residual jack pine poles strips left (charred and ~ 4 - 6" dbh). Heavy sweetfern and blueberry impeding further jack pine regeneration establishment.																																									
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9	4130 - Aspen	Sapling Poor	24.8	7	Immature	N/A	This stand was harvested in 6/2018. Stand is fully stocked with aspen saplings. A drainage runs south/north across the center of this stand which contains saturated soils and alder.																																									
10	42120 - Planted Jack Pine	Poletimber Medium	33.2	37	81-110	N/A	Old fire area with numerous plow lines within (burned both in 1986 and portion on 5/12/2004). Tree density is sparse in places. FTP 32-393: plant/trench JP ~ W. half of stand 1989. Low to moderate mortality of jack pine in stand likely from ice storm(s) in early 2020's.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
11	4130 - Aspen	Poletimber Well	51.1	46	81-110	N/A	"Farmer's Lake Block" #12/77A - cut 1977-78 (unit 1,2). Some dead stems, dieback and breakage. Stand gradually increase in diameter (from S to N) with more hardwood, fir in the sub-canopy (transitioning into better site). A few clones of bigtooth aspen poles (residual), mainly along private boundary and slope. Ground cover of blueberry, sweetfern.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			
Balsam Fir	4	Pole/Sapling	5		Red Maple	Medium		5 - 10 feet	Sapling
White Spruce	2	Log	14		Jack Pine	Low		10 - 20 feet	Sapling
Black Cherry	2	Sapling/Pole	4		Black Cherry	Low		10 - 20 feet	Sapling
Jack Pine	2	Log/Pole	10		Balsam Fir	Low		Variable	Sapling
Red Maple	2	Pole/Sapling	7		Paper Birch	Low		10 - 20 feet	Sapling
Quaking Aspen	80	Pole	6	46	Hazelnut (Beaked)	Medium		< 5 feet	Tall Shrub
Bigtooth Aspen	8	Log/Pole	10						
12	42220 - Natural Jack Pine	Poletimber Poor	26.3	38	51-80	N/A		Area left to regenerate naturally after 1986 wildfire. Old plow lines still visible. Juneberry and other shrubs present. Sparse. Ground cover of grass, sweetfern, blueberry.	
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine	100	Pole/Log	9	38					
13	4130 - Aspen	Sapling Poor	14.3	45	1-50	N/A	Cut in 1978 (part of pre-inventory stand 11). Very low quality aspen - likely within burned area of 1986 wildfire		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			
Bigtooth Aspen	10	Sapling/Pole	3	45	Jack Pine	Low		10 - 20 feet	Sapling
Jack Pine	10	Pole/Log	8		Black Cherry	Low		10 - 20 feet	Tall Shrub
Quaking Aspen	70	Sapling/Pole	3	45	Balsam Fir	Low		Variable	Sapling
Serviceberry (Juneberry)	5	Sapling	1						
Black Cherry	5	Sapling	4						
14	42220 - Natural Jack Pine	Poletimber Medium	17.0	38	1-50	N/A	Mixed jack pine/aspen. "Farmer's Lake Block" #012-77A (unit 3) - cut 1977-78. Harvested all except oak, red pine. A few old plow lines noted from fire in 1986. Ground cover of bracken fern, wintergreen, trailing arbutus, sweetfern. FTP32-83: hand plant 3-0 RP (10 acres - 6,000 trees) 11/14/78 with YACC crew. No real evidence of these anymore, due to 1986 fire. Possibly some planted jack pine, but not much. Small (less than 1 acre) patches of aspen poles in stand boundary.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			
Bigtooth Aspen	9	Sapling/Pole	4	45	Quaking Aspen	Low		10 - 20 feet	Sapling
Jack Pine	75	Pole/Sapling	5	38	Black Cherry	Low		10 - 20 feet	Sapling
Quaking Aspen	8	Sapling/Pole	4	45	Red Pine	Low		10 - 20 feet	Sapling
Red Pine	1	Log	15		Serviceberry (Juneberry)	Medium		10 - 20 feet	Tall Shrub
Black Cherry	2	Pole	5						
Red Maple	5	Sapling	3						
15	42120 - Planted Jack Pine	Sapling Well	229.0	37	81-110	N/A	Large tract burned by wildfire in 1986. W. side of Sporley Lk Rd had been harvested under permit #15/69 - ~30 acres - from fire in 1969. FTP 32-331: for JP thinning in 1985; site was burned by fire in May, 1986, though. "Sporley Lake Salvage Block" #017-86 - harvested spring/summer, 1987. FTP 32-375 (W. side of Sporley Lk Rd) - chop, trench, plant jack pine ~ 1989. Planting records for E. side not found, but establishment should be very comparable (old examiners noted used - OI stands 19,20). East side ~ 1990. Large portions of stand received moderate damage from ice storm(s) in early 2020's.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			
Jack Pine	100	Sapling/Pole	4	37	Sweet Fern	Medium		< 5 feet	Tall Shrub
					Jack Pine	Trace		>20 feet	Sapling
					Red Pine	Trace	10 - 20 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	4199 - Other Mixed Upland Deciduous	Sapling Medium	35.6	37	1-50	N/A	Permit #2/79A - cut spring, 1979. Patchy jack pine (natural origin), esp at south end; old fire plow lines (from 1986 wildfire) still visible. Some low quality, fire origin aspen also - heavy stem breakage. Natural red and white pine, oak doing well on site; oak regeneration established near residual oak found. Red maple and oak stump sprouts throughout. Ground cover of wintergreen, bracken fern, sweetfern noted.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		30	Sapling	3	37			
Red Pine		5	XLog/Log	18				
Jack Pine		5	Pole	5				
White Pine		5	Sapling	4	37			
Red Oak		5	Log	10				
Paper Birch		5	Sapling	4	37			
Red Oak		20	Sapling	3	37			
Quaking Aspen		25	Sapling/Pole	4	37			

17	42140 - Planted Mixed Pine	Poletimber Well	40.4	40	111-140	N/A	"Farmer's Lake West Block" #3/79A - cut summer, 1979. FTP 32-132: roller chop slash 4/1980 and machine planted 3-0 RP May, 1980. Site was (hand) re-planted to 2-0 RP (24,000 trees) May, 1986 after wildfire destroyed plantation. Red pine is mostly smaller diameter, shorter than jack pine (natural); both are fairly limby. The west half of stand is heavier to pure red pine and more open. Trace amount of aspen within.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		50	Pole	7	40			
Jack Pine		50	Pole/Sapling	7	37			
Sub-Canopy Species		Density	Avg. Height	Size				
Jack Pine		Low	< 5 feet	Seeding				
Red Pine		Low	10 - 20 feet	Sapling				
Red Maple		Low	Variable	Sapling				
Serviceberry (Juneberry)		Low	10 - 20 feet	Sapling				

18	42120 - Planted Jack Pine	Poletimber Well	5.4	37	51-80	N/A	Some older jack pine (blowdown, dead within) around leatherleaf bog/dried pond; planted red and jack pine surround. Trace amount of red pine subcanopy and some hazel (west side of stand).	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		20	Log/Pole	11				
Jack Pine		40	Pole/Sapling	6	37			
Red Pine		30	Pole	7	40			
Quaking Aspen		10	Sapling	3				
Sub-Canopy Species		Density	Avg. Height	Size				
Jack Pine		Low	10 - 20 feet	Sapling				

19	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	41.7	94	81-110	N/A	Natural pine stand with oak. N. of Co Rd 456 was treated under permit #2/79A - spring, 1979. S. of Co Rd 456 harvested under permit #9/71A (portions) - removed marked red and white pine, white spruce greater than 12" and all jack pine, aspen, birch from 1971-73. Both areas with a fair amount of mixed regeneration heavy to red oak, red maple, white pine, birch, and aspen; north end with some dead tops in white pine, old red pine snags and charred stumps from 1986 fire. South end, primarily along Farmer Lk Rd and Co Rd 456, had 3 - 0 red pine hand planted, FTP 32-82, by YACC crews in Nov, 1978.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		55	XLog/Log	18	94			
White Pine		10	Log	16				
Jack Pine		5	Log/Pole	10				
Paper Birch		4	Pole/Sapling	7	51			
Red Maple		2	Pole	8				
Quaking Aspen		2	Pole	7	51			
Red Oak		22	Log/Pole/XLog	12				
Sub-Canopy Species		Density	Avg. Height	Size				
Red Pine		Medium	Variable	Sapling				
Quaking Aspen		High	>20 feet	Sapling				
Red Oak		Medium	Variable	Sapling				
Paper Birch		Medium	>20 feet	Sapling				
Balsam Fir		Low	Variable	Sapling				
Red Maple		Medium	Variable	Sapling				
White Pine		Medium	Variable	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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20	6225 - Bog	Nonstocked	18.4			No	Leatherleaf bog.
		Sub-Canopy Species		Density	Avg. Height	Size	
		Paper Birch		Trace		Sapling	
		Hemlock		Trace		Sapling	
		Leatherleaf		Full		Tall Shrub	
		White Pine		Low		Seeding	
		Jack Pine		Trace		Sapling	
		Red Pine		Trace		Sapling	

21	4136 - Aspen, Mixed Conifer	Poletimber Well	19.1	52	81-110	N/A	Permit #9/71A - cut marked red and white pine, all white spruce greater than 12" and all jack pine, aspen, birch - 1971-73. Stand species diversity is high.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Sapling/Pole	4		Balsam Fir	
White Pine		5	Log	14		White Pine	
Paper Birch		5	Sapling/Pole	4	52	Red Pine	
Jack Pine		4	Pole/Log	9		Red Maple	
Quaking Aspen		10	Pole	7	52	Hazelnut (Beaked)	
Bigtooth Aspen		40	Pole	8	52	Quaking Aspen	
Balsam Fir		2	Pole	7		Red Oak	
Black Spruce		2	Pole	6		Paper Birch	
Red Oak		15	Log/Pole	12	94	Black Spruce	
Red Pine		10	Log	16	94		
White Spruce		2	Pole/Log	9			

22	42290 - Natural Mixed Pine	Sawtimber Medium	20.6	92	51-80	N/A	"Gravels Pond Block" #011-96 - cut fall, 1998. Removed about 16-17 cd/ac of aspen, birch, jack pine and spruce, leaving RP, WP and oak. Many free to grow aspen, oak, and red maple saplings present in the unit following 1998 harvest. Ground cover of lily, bracken fern, wintergreen, trailing arbutus.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		3	Pole	8		White Pine	
White Pine		20	Log/XLog/Pole	12		Red Pine	
Red Pine		50	Log/XLog	15	92	Quaking Aspen	
Red Oak		25	Log/XLog/Pole	14		Red Maple	
Jack Pine		2	Pole	7		Cherry (spp.)	
						Hazelnut (Beaked)	
						Balsam Fir	
						Red Oak	

23	500 - Water	Nonstocked	5.5			No	Pond
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
24	42260 - Natural Pine, Mixed Deciduous	Sawtimber Poor	169.0	86	1-50	N/A	Aspen, birch removed under permit #014-85-2 in 1985. Also, "Farmer Lake Sale" #007-06-1 - harvested fall, 2006 - fall, 2009. Mostly aspen regeneration, good red oak and white pine regeneration throughout; red and jack pine somewhat spotty, but present. Stand also contains a few small leatherleaf depressions.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		3	Pole/Sapling	6		White Pine		
Red Oak		20	Log/Pole	12		Red Oak		
Paper Birch		2	Pole/Sapling	5	39	Hazelnut (Beaked)		
Bigtooth Aspen		5	Pole/Sapling	5	39	Paper Birch		
White Pine		30	Log/Pole/XLog	12		Quaking Aspen		
Red Pine		40	Log/Pole/XLog	14	86	Bigtooth Aspen		
						Red Maple		
						Jack Pine		
						Red Pine		
						Balsam Fir		
						Density		
						Avg. Height		
						Size		
25	6225 - Bog	Nonstocked	1.0			No	Small leatherleaf bog.	
26	6225 - Bog	Nonstocked	1.8			No	Small leatherleaf depression.	
27	3104 - Degraded	Nonstocked	12.0			No	Powerline and R.O.W. Dirt two track through corridor being used by ORV's.	
28	6124 - Lowland Spruce-Fir	Poletimber Poor	8.6	88	1-50	N/A	Stand is lowland spruce/fir poles. Contains a short drainage into Little Lake. This stand is part of a concentrated recreational area SCA.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		10	Pole/Sapling	6		Tag Alder		
Tamarack		20	Sapling/Pole	4	88	Balsam Fir		
Black Spruce		45	Pole	7	88	Leatherleaf		
Paper Birch		10	Pole	7		Quaking Aspen		
White Pine		5	XLog/Log	18				
Red Maple		10	Pole/Sapling	7				
						Density		
						Avg. Height		
						Size		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29	4113 - R.Maple, Conifer	Poletimber Medium	20.7	94	81-110	N/A	Stand split from Little Lake Campground stand in 2024 because the Recreational SCA was adjusted to only include the campground west of the road. Stand is mostly low quality red maple, with overmature aspen, birch, with mature spruce and balsam fir mixed in. Balsam fir showing moderate mortality from spruce bud worm. Trace amount of jack and red pine, mainly within campground area. Contains interior wet pockets and a low swale with large, weeviled, white pine, some cedar adjacent. Ground cover of lily, club moss, starflower noted.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	8	XLog	26		Black Spruce	Low		Variable	Sapling
Balsam Fir	4	Pole/Sapling	6		Balsam Fir	High		Variable	Sapling
Northern White Cedar	3	Pole/Log	8		White Pine	Low		5 - 10 feet	Sapling
Black Spruce	2	Pole	6		White Spruce	Low		Variable	Sapling
Quaking Aspen	4	Pole/Log	9	94					
Paper Birch	5	Log/Pole	10	94					
Black Cherry	5	Pole/Log	8						
Red Maple	62	Pole/Log	8	94					
Hemlock	3	Log/Pole	10						
White Spruce	4	Log	12						

30	42110 - Planted Red Pine	Poletimber Well	121.4	29	51-80	N/A	Several harvests: permit #017-88-2 - cut spring, 1988 (aspen, birch, maple) and permit #029-84-2 - cut 1985. "Ski Hill Road Jack Pine" sale #012-96 (unit 2 - 11) - cut winter - spring, 1997 and summer, 1997 (unit 11 - far south end of stand). FTP 32-560: herbicided summer, 1997 (Accord/Garlon 4), trenched and hand planted 3 - 0 red pine in May, 1998. Spacial distribution of size classes is variable, with portions heavier to 11+\" dbh red and white pine, and other portions heavier to 5-7\" dbh red pine and jack pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	9	Log	12	94	Quaking Aspen	Medium		>20 feet	Sapling
Jack Pine	10	Sapling/Pole	4		Bigtooth Aspen	Medium		10 - 20 feet	Sapling
Red Maple	2	Pole	9		Red Pine	Medium		10 - 20 feet	Sapling
Quaking Aspen	2	Pole	6	29	Red Maple	Low		Variable	Sapling
Red Oak	1	Log	11		Hazelnut (Beaked)	Low		< 5 feet	Tall Shrub
Red Pine	70	Pole	5	29	White Pine	Medium		5 - 10 feet	Sapling
White Pine	6	Log	14		Paper Birch	Low		>20 feet	Sapling
					Cherry (spp.)	Low		5 - 10 feet	Sapling
					Balsam Fir	Low		5 - 10 feet	Sapling
					Jack Pine	Medium		10 - 20 feet	Sapling

31	6225 - Bog	Nonstocked	7.7			No	Leatherleaf depression with grass and sphagnum moss. Very few trees present.
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32	42210 - Natural Red Pine	Sawtimber Well	38.2	92	81-110	N/A	"Ski Hill Road Jack Pine" #012-96-1 (unit 1) - cut Jan, 1997 - left all red, white pine and oak. Permit #021-84-2 - harvested aspen. Good diversity of regeneration.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Jack Pine	3	Pole/Log	8		Red Pine	Low		Variable	Sapling
Red Oak	5	Log	12		Red Maple	Medium		Variable	Sapling
Red Maple	2	Pole	6		White Pine	Medium		Variable	Sapling
Quaking Aspen	3	Pole/Sapling	7	40	Quaking Aspen	Medium		10 - 20 feet	Sapling
Red Pine	65	Log/Pole	13	92					
White Pine	22	Log/Pole	12						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
33	42290 - Natural Mixed Pine	Poletimber Medium	6.2	69	81-110	N/A	Evidence of FTP 32-391: trench/plant 2 - 0 RP 1989 (and herbicided sp, 1988 w/Weedone) along W/NW end. Otherwise, stand is heavily weeviled white pine with low quality aspen, and a few mature jack pine. BA highly variable.																																																											
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34	42110 - Planted Red Pine	Poletimber Well	46.8	36	111-140	N/A	"Cohen Field Block" #032-86 - cut 1987-1991. Removed larger red pine (greater than 12") and all aspen, jack pine, white pine. FTP 32-442: herbicide (Valpar), trench and hand plant 2 - 0 red pine ~ fall, 1990. Stand contains natural jack pine regeneration. Ground cover of sweetfern, wintergreen, blueberry.																																																											
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35	42220 - Natural Jack Pine	Poletimber Well	24.5	38	51-80	N/A	Area burned during the 1986 Swanzey Lake fire...fully regenerated. Jack pine heights of ~30ft. Severe erosion from illegal ORV use.																																																											
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36	4132 - Aspen, Jack Pine	Poletimber Medium	17.7	30	141-170	N/A	Aspen with jack pine. Severe erosion in this stand from illegal ORV use.																																																											
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37	500 - Water	Nonstocked	17.6			No	Swanzey Lake																																																											
38	4123 - Red Oak	Sawtimber Well	9.8	105	111-140	N/A	Select cut as "Sporley Lake Block" #20-78A - summer, 1979 and "Engman Lake Hardwood" #010-96 (unit 1-6) - fall, 1996 - summer, 1997, summer 1998. No oak listed as harvested in either T Sale. Some hardwood TSI also completed under FTP C32-12 - October, 1979 in conjunction with t. sale contract. Rolling terrain. Heavier to oak logs with oak seedlings noted transitioning into more maple with oak component and cherry poles. Heavier fir understory in areas with higher maple canopy. 2024 SF: Seed tree recommended in portion with greatest seedling regeneration, rest of stand thinning was recommended to encourage regeneration to begin.																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
39	42220 - Natural Jack Pine	Poletimber Poor	13.2	37	51-80	N/A	Permit #2/79A - cut spring, 1979, all jack pine removed. Patchy jack pine (natural origin) likely originated from 1986 wildfire; old fire plow lines still visible. Some low quality, fire origin aspen also - heavy stem breakage. Ground cover of wintergreen, bracken fern, sweetfern noted.
40	4113 - R.Maple, Conifer	Poletimber Medium	15.4	94	81-110	N/A	The north half of stand contains Little Lake State Forest Campground and boat access site. This stand is part of a concentrated recreational area SCA. Trace amount of jack and red pine, mainly within campground area. Ground cover of lily, club moss, starflower noted.