



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61045

Entry Year 2028

Acreage: 2,998

County: Grand Traverse

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Patrick Cotant

Legal Description:

T27N R8W Sections 19 & 30T27N R9W Sections 13, 23, 24, 25, 26, 35 & 36

Identified Planning Goals:

This compartment is within the Kalkaska Sandy Moraines management area. No forest management activities are prescribed at this time. Since the early 1980s forest and wildlife habitat management has been limited or absent in the Sand Lakes Quiet Area. This area does however have a history of forest management beginning with an intensive pine planting effort in the years of 1928-32. Numerous other treatments were carried out as early as the 1940's and peaking in the 1960s. Most of these treatments involved crown release thinning and removal of dead trees. Management activities were limited after the Sand Lakes Quiet Area was dedicated in 1973 but concerns were raised in the 1980's about the effects of the lack of management, especially the loss of diversity as the stands aged. Aspen and jack pine stands were of particular concern. Several aspen and jack pine harvests were prescribed and completed at that time. The current lack of active forest management, while allowing natural processes to occur, may also raise concerns. Many stands are old, overstocked and stagnant. This can be seen in both the pine and oak dominated areas. As stands lose vigor they are more susceptible to insect and pathogen attacks. General decline was noted in small areas of the larger oak stands but no Oak Wilt infection centers were found at this time, aside from a small area within Guernsey Lake State Forest CG - this site was vibratory plowed in November, 2025. Stressed oak is susceptible to attack from Gypsy Moth, Two-lined Chestnut Borer, Armillaria Root Rot and many other pathogens. The oak in this compartment will continue to age and die out with succession of stands trending to white pine and red maple. Although the white pine understory is thick in areas, it has been heavily damaged by snows due to its whippy form. The jack pine in this compartment continues to die and fall out of the canopy. Stands that formerly had a heavy jack pine component now have an increased amount of coarse woody debris along with scattered standing dead trees. Jack pine budworm and pine bark beetles are also associated with these over-aged, stressed jack pine stands which could impact nearby pine stands, however at this time no pocket mortality typical of these infestations was observed. The red and white pine groves in this compartment are generally nearing 90-100 years old. Less diameter growth has occurred in the last 30 years however the decline in the jack pine component has freed up the red and white pine allowing them to continue to grow fairly well considering their age and lack of traditional management. Many of these stands are now taking on a more natural appearance especially where oak and red maple occupy more of the canopy. The larger aspen within the oak and pine dominated stands, and the older, more uniform aspen stands themselves continue to show signs of decline. Aspen snags can be found throughout many of the stands. While traditional aspen management would allow for an increase in early successional habitat, these snags and the increase in downed, coarse woody debris are providing benefits as well.

Soil and topography:

The topography is gently rolling to moderately steep. Small pot-hole lakes and marshes are scattered throughout the area. Several of the lakes are particularly noteworthy because they possess thick, pure deposits of marl (calcium carbonate) on the lake bed and shores. The remaining soils in this compartment are almost entirely rubicon.

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

Extensive State Ownership surrounds this compartment both in Grand Traverse and Kalkaska Counties. Private holdings border in three locations: two in section 23 Grand Traverse County and one in section 30 Kalkaska County. One of these parcels extends into the Quiet Area---section 23 (23 acres). Mixed pine and aspen types lie to the south, oak types lie to the west, northern hardwoods border on the north, and a mixture of pine-oak-aspen adjoin on the east.

Unique Natural Features:

This Compartment contains numerous northern fens that occur along the margins of seven alkaline kettle lakes. The surrounding forests are dominated by high-quality dry-mesic northern forest. The eastern part of the Compartment has areas heavily stocked with primarily red and white pine that was planted in the CCC era - the majority was planted 1928-31. Several smaller areas of older natural pine can be found in this portion of the compartment along with scattered legacy trees. The entire compartment has been designated as the Sand lakes quiet Area. Under this designation, the use of motorized recreational vehicles has been excluded. Summertime recreation centers around the Sand Lakes in the form of camping and fishing. Fall recreation mainly involves hunting with moderate camping. Heavy use is made of the ski trails in

the winter, and spring is mainly a time of fishing. Camping occurs in winter and spring but to a lesser degree than in the summer. A State Forest Campground is located on Big Guernsey lake. Within the Quiet Area, outboard motors are allowed on both Big and Little Guernsey Lakes.

Archeological, Historical, and Cultural Features:

Archeological sites have been identified in this compartment.

Special Management Designations or Considerations:

The Sand Lakes Quiet Area was dedicated by the Natural Resources commission in 1973. A major purpose of that dedication was to emphasize non-motorized dispersed recreation and other quiet recreational activities within the Quiet Area. Since that time, public access to the Area with motorized vehicles has been limited. The public continues to have motorized access to the Guernsey Lake Campground for rustic camping and access to boat launching facilities on big Guernsey lake. There has also been motorized access by Department of Natural Resources personnel and by others as needed to manage the resources of the Quiet Area. This is in conformance with the 1973 approved plan. This area is also designated as a High Conservation Value Area.

Watershed and Fisheries Considerations:

The North Branch of the Boardman River and numerous small lakes are found near this compartment. One of those lakes, Guernsey Lake, is a designated trout lake which is stocked annually with brown trout. Appropriate buffers (as outlined in Water Quality Management Practices on Forest Land) should be adhered to around all water bodies in this compartment.

Wildlife Habitat Considerations:

The western 20% of the compartment falls within a broad, flat outwash plain landscape (Land Type Association 5111); the remainder is on a pitted outwash plain (LTA 5211). Both of these landscapes are wildfire prone and have been shaped ecologically for centuries by relatively frequent, intense fires. As a result, forests here in the 1800's were dominated by jack pine, mixed pine forests and some beach-maple. Less fire prone areas occur in the lee of the Boardman River and numerous lakes in the compartment. Ecologically, the compartment could benefit from judicious forest management allowing some continued succession toward mature pine forest or perhaps beech-dominated hardwood, while setting back some stands successional, consistent with the fire-driven dynamics of this landscape. Wildlife benefitting from a variety of successional states of pine-oak-aspen forests in this landscape include pine warbler, red squirrel, scarlet tanager, box turtle, coyote, hog-nosed snake, Cooper's hawk, red-backed salamander, and deer. Maintenance of oak forests is vital to myriad acorn users. If these oak forests are not regenerated (either naturally or through harvest) there will be a gradual loss of an important resource here. Openings in the form of savanna-like barrens were once relatively common on these two types of dry and sandy outwash plains. These types of fire-dependent communities have become rare and are listed as S1 (Imperiled in the state because of rarity due to very restricted range, very few occurrences, steep declines, or other factors making it very vulnerable to extirpation from the state, such as modern wildfire suppression.) Several locations on the perimeter of the Sand Lakes Quiet Area have been proposed for barrens management. These areas already exhibit many barrens characteristics and with the application of controlled burns and/or limited tree removal/planting would provide habitat for common species of plants and animals as well as many rare species. Red-shouldered hawks have been recorded in the compartment where mature forest is associated with wetlands and lakes. Loons may be using these lakes as well, so protection of the water bodies and associated riparian cover is important.

Mineral Resource and Development Concerns and/or Restrictions

There is no known potential for the occurrence of economic deposits of metallic minerals in this part of the state. The closest known active sand/gravel pit is roughly four miles east. The compartment is within the Sand Lakes Quiet Area, a special management zone with respect to mineral exploration and development. No commercial surface mining would be allowed within this area. The compartment is within both the Antrim Shale and Silurian reef hydrocarbon plays, and while there has been some legacy oil & gas development, no new well drilling would be allowed within the Sand Lakes Quiet Area. Some State-owned mineral rights within the compartment are currently under lease, associated with the legacy production. Additional rights within the compartment are currently nominated for underground natural gas storage leasing as part of a proposal to convert a depleted reef reservoir to gas storage. If the gas storage lease is approved and the gas storage field developed, the lessee will also obtain an oil & gas lease for any native hydrocarbons produced as function of injection.

Vehicle Access:

Vehicle access is limited for general public but is available for official use by the DNR and other public agencies. Existing roadways have been well maintained in recent years but are blocked in places by fallen trees from recent storms. An effort could be made to make these roads passable for emergency use.

Survey Needs:

Corners can be found throughout the compartment and are present around private property adjacent to this compartment.

Recreational Facilities and Opportunities:

Summertime recreation centers around the Sand Lakes in the form of camping and fishing. Fall recreation mainly involves hunting with moderate camping. Heavy use is made of the ski trails in the winter, and spring is mainly a time of fishing.

Camping occurs in winter and spring but to a lesser degree than in the summer.

2016: FMD Parts of this compartment are very beautiful especially the areas around the lakes and the sections with the older planted pine. The terrain is rolling which causes limited sight distance in many areas. The opportunity seems to exist for expanded recreational use with the addition of new or expanded trails for walking, biking or skiing.

A State Forest Campground is located on big Guernsey lake. Through within the Quiet Area, outboard motors are allowed on both big and Little Guernsey Lakes. Roots Lake road, the northern compartment boundary, is a designated Department snowmobile trail. The Shore to Shore equestrian and hiking trail, along with the North Country Trail are located within this compartment. Trail protection specifications related to non-motorized trails should be considered when setting up any treatments within this compartment. (T.M.N. 1/26/16)

Fire Protection:

Additional Compartment Information:

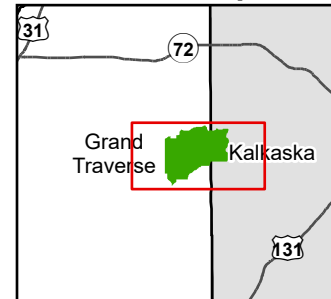
The following reports from the Inventory are attached:

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

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

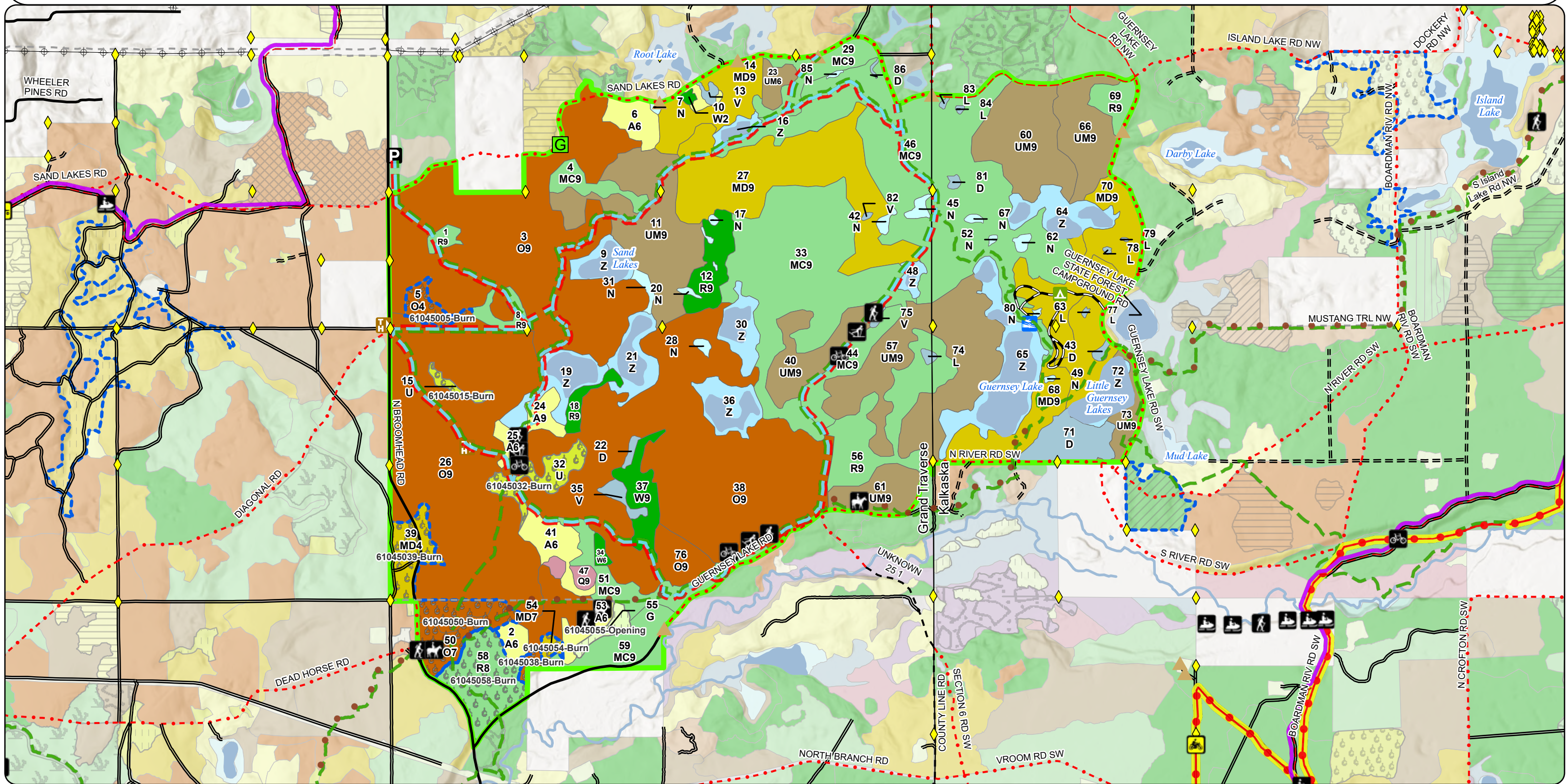
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



Compartment: 61045
T27N R09W 23-26, 35
County: Grand Traverse
Unit: Traverse City
Mgmt. Area: Kalkaska Sandy Moraines
YOE: 2028
Acres: 2,998 GIS Calculated
Examiner: Patrick Cotant
Date Exported: 06/29/2026
Map Phase: Web Post

- | | | | | |
|--|---|---|---|--|
| <ul style="list-style-type: none">Survey Grade CornersCulvertParking LotBoating Access SiteState Forest CampgroundTrailheadBermGate | <ul style="list-style-type: none">Designated Hiking PathwayDesignated Bicycle TrailsDesignated Equestrian TrailsDesignated Ski TrailsDesignated MCCCT TrailsDesignated ORV RoutesDesignated Motorcycle TrailsDesignated SnowmobileDNR - Primary Forest Road | <ul style="list-style-type: none">DNR - Secondary Forest RoadDNR - Forest Access RouteFederal / State / County - Paved RoadFederal / State - Dirt / Gravel RoadCounty - Gravel RoadCounty - Dirt Road (Seasonal)Private - Dirt / Gravel RoadStreamsLakes and Rivers | <ul style="list-style-type: none">ElectricCompartment BoundaryTreatments with Site ConditionsPrescribed BurnOpenings Mgmt.412 - Oak Types413 - Aspen419 - Mixed Upland Deciduous421 - Planted Pines | <ul style="list-style-type: none">422 - Natural Pines430 - Upland Mixed Forest500 - Water612 - Lowland Coniferous Forest310 - Herbaceous Openland330 - Low Density Trees622 - Lowland Shrub623 - Emergent Wetland |
|--|---|---|---|--|



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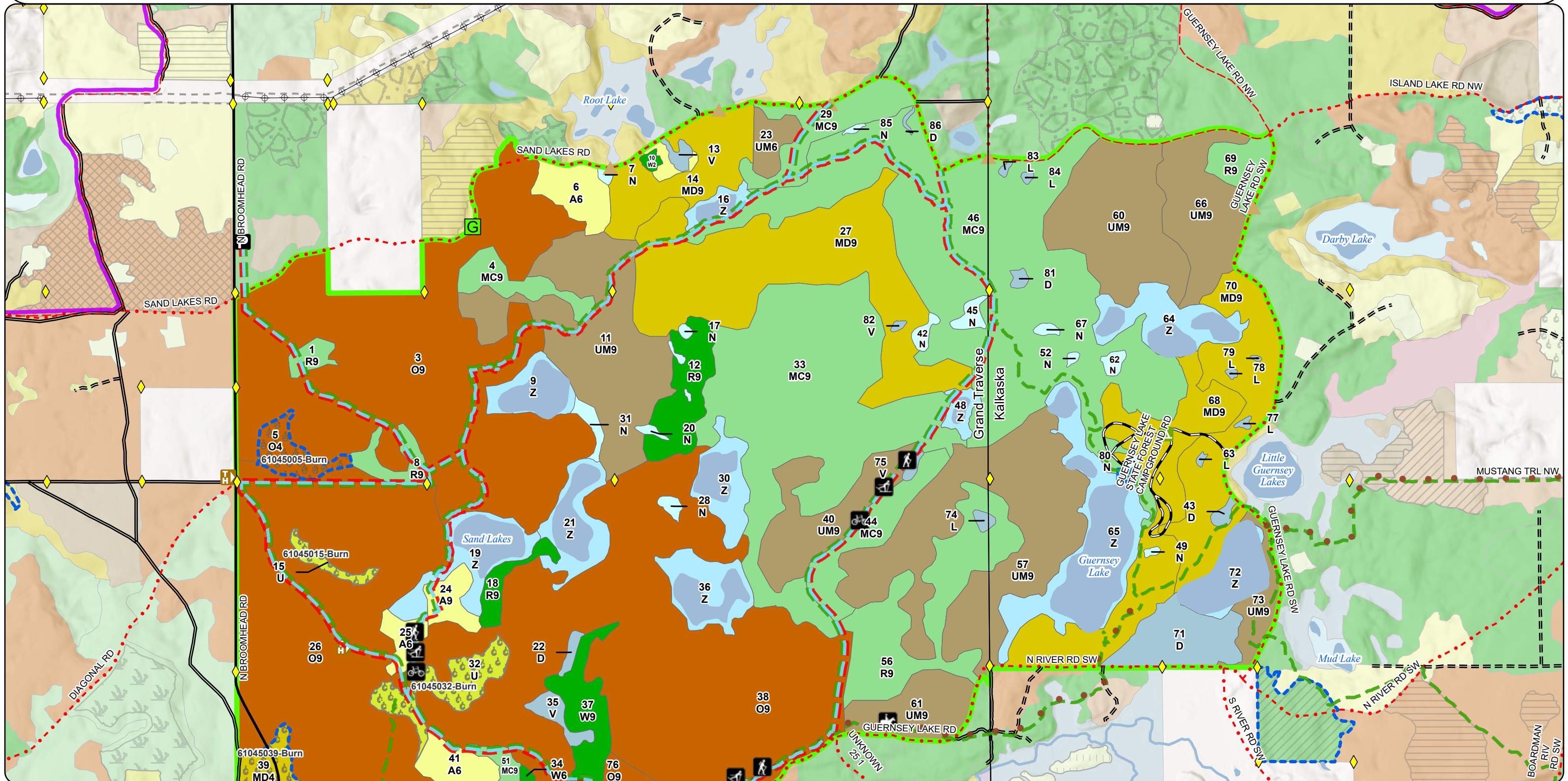
0 0.5 1 Miles

- Survey Grade Corners
- Parking Lot
- Boating Access Site
- State Forest Campground
- Trailhead
- Berm
- Gate
- Designated Hiking Pathway
- Designated Bicycle Trails
- Designated Equestrian Trails

- Designated Ski Trails
- Designated MCCCT Trails
- Designated ORV Routes
- Designated Motorcycle Trails
- Designated Snowmobile
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road

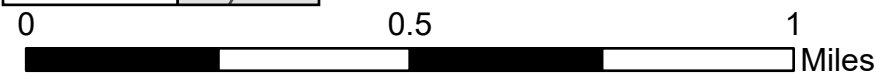
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Electric
- Compartment Boundary
- Treatments with Site Conditions
- Prescribed Burn
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- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 500 - Water
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



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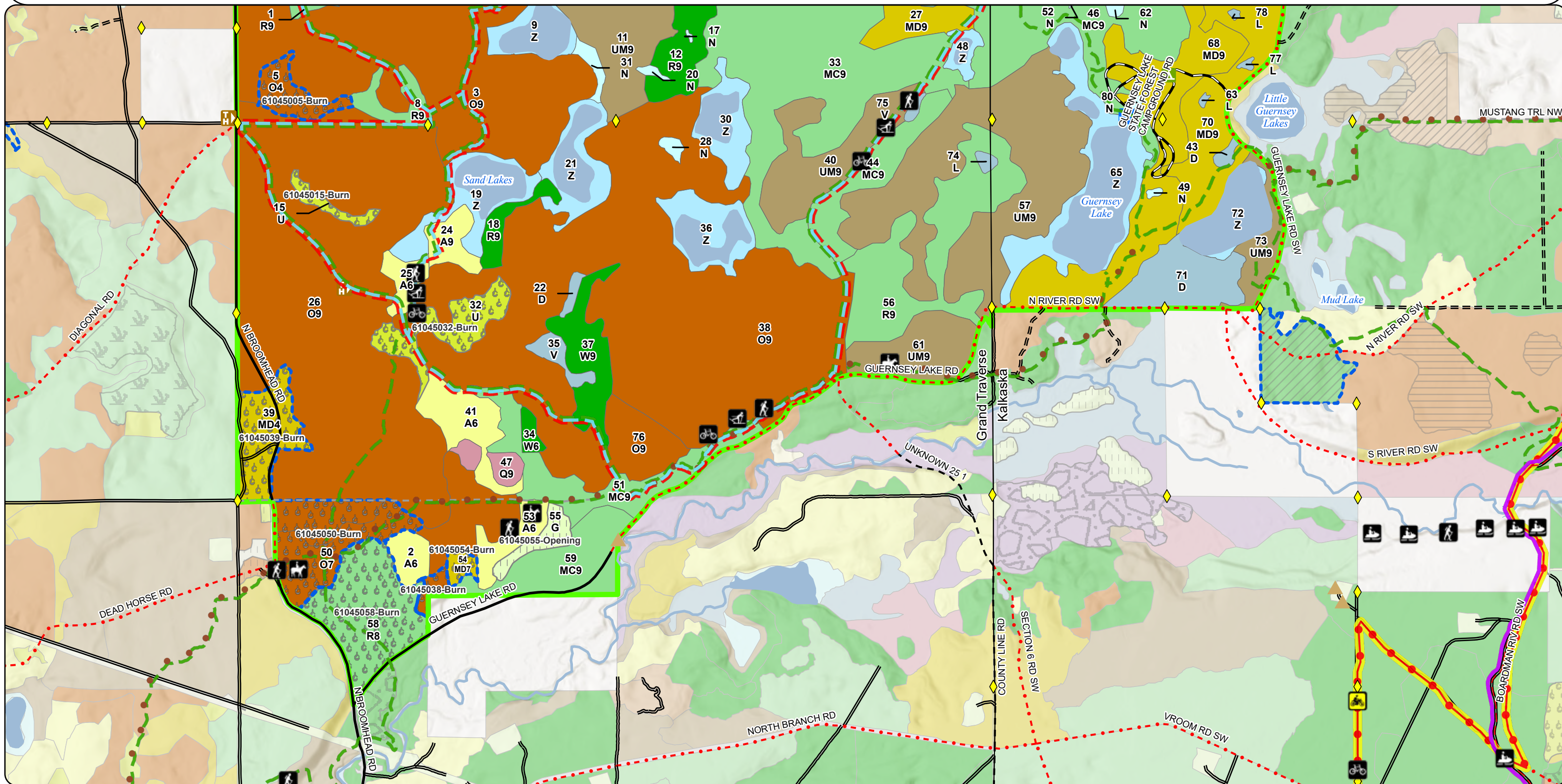


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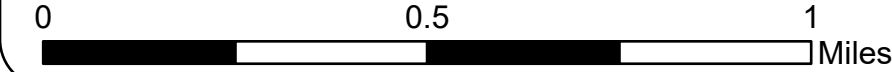
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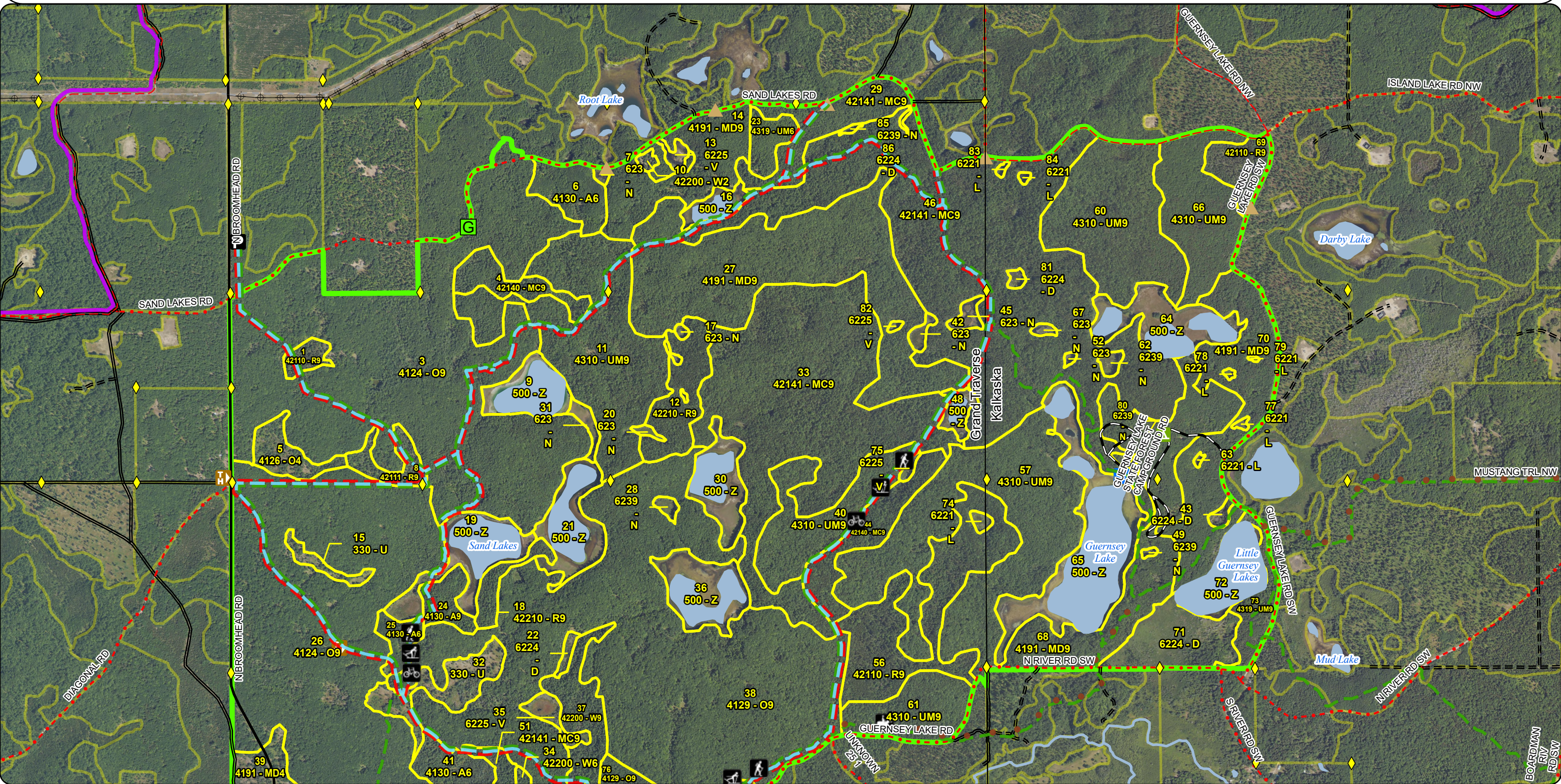
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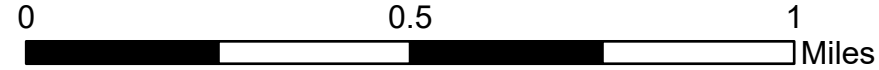
A map of the border region between Grand Traverse and Kalkaska counties, Michigan. Grand Traverse County is on the left, and Kalkaska County is on the right. A red rectangle highlights the study area, which is shaded in green. The map includes major roads: US-31 in the northwest, US-72 running horizontally, and US-131 in the southeast. The labels 'Grand Traverse' and 'Kalkaska' are placed in their respective counties.



- | | | | | | |
|---|------------------------------|---|---------------------------------------|---|---------------------------------------|
|  | Survey Grade Corners |  | Designated ORV Routes |  | Electric |
|  | Parking Lot |  | Designated Motorcycle Trails |  | Compartment Boundary |
|  | Boating Access Site |  | Designated Snowmobile |  | Compartment Stand Yellow Outline (PD) |
|  | State Forest Campground |  | DNR - Primary Forest Road | | |
|  | Trailhead |  | DNR - Secondary Forest Road | 412 - Oak Types | 412 - Oak Types |
|  | Berm |  | DNR - Forest Access Route | 413 - Aspen | 413 - Aspen |
|  | Gate |  | Federal / State / County - Paved Road | 419 - Mixed Upland Deciduous | 419 - Mixed Upland Deciduous |
|  | Designated Hiking Pathway |  | Federal / State / County - Paved Road | 421 - Planted Pines | 421 - Planted Pines |
|  | Designated Bicycle Trails |  | County - Gravel Road | 422 - Natural Pines | 422 - Natural Pines |
|  | Designated Equestrian Trails |  | County - Dirt Road (Seasonal) | 430 - Upland Mixed Forest | 430 - Upland Mixed Forest |
|  | Designated Ski Trails |  | Private - Dirt / Gravel Road | 500 - Water | 500 - Water |
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| | |  | Lakes and Rivers | 622 - Lowland Shrub | 622 - Lowland Shrub |
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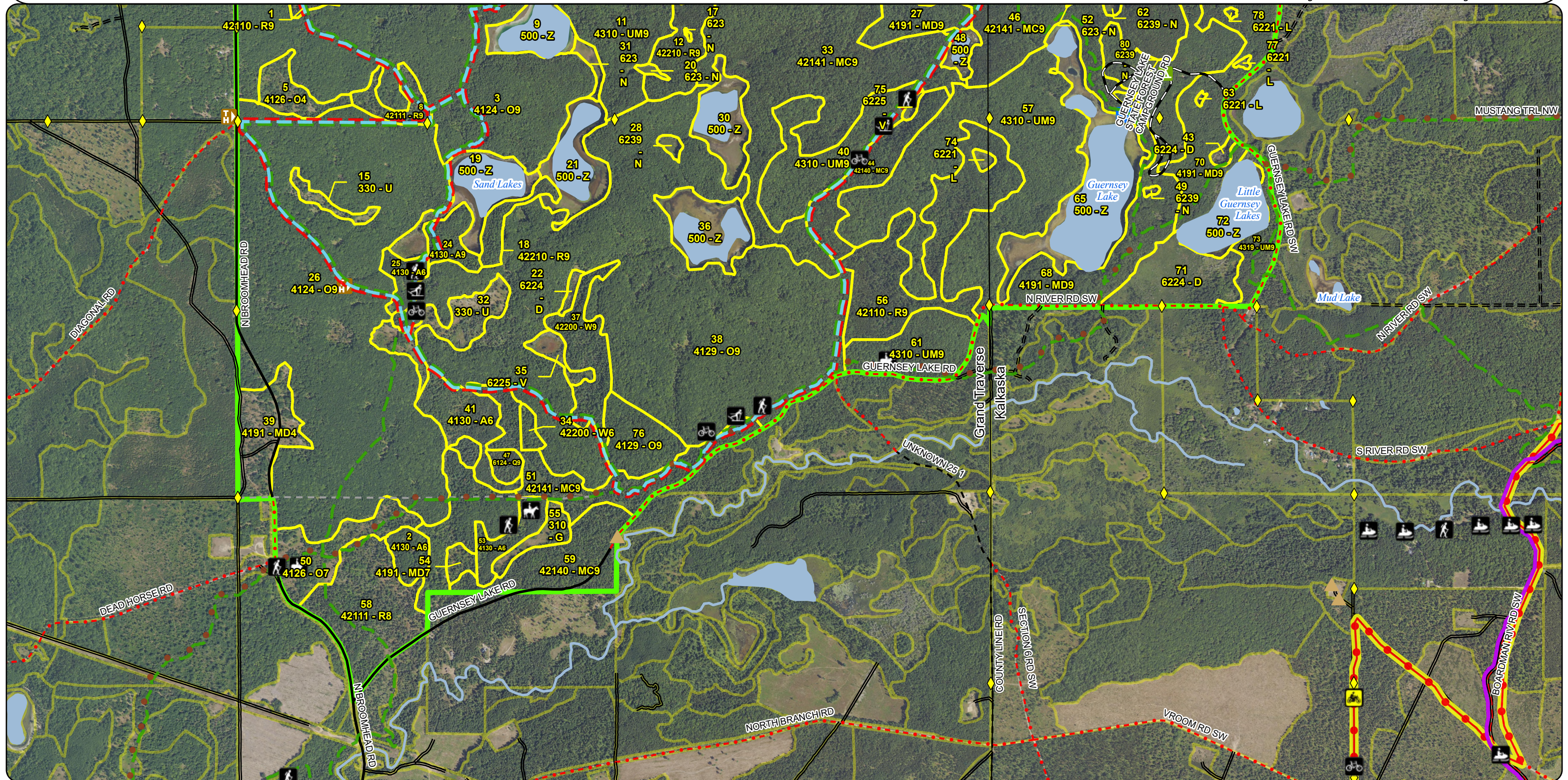
A map showing the boundary between Grand Traverse County (left) and Kalkaska County (right). A green shaded area, representing the study area, is located in the southern part of Grand Traverse County, near the border with Kalkaska County. A red rectangle highlights the green area. A road labeled '131' is shown in the bottom right corner of Kalkaska County.



-  Survey Grade Corners
-  Culvert
-  Boating Access Site
-  State Forest Campground
-  Trailhead
-  Berm
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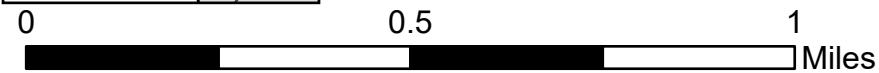
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| 310 - Herbaceous Openland | 310 - Herbaceous Openland |
| 330 - Low Density Trees | 330 - Low Density Trees |
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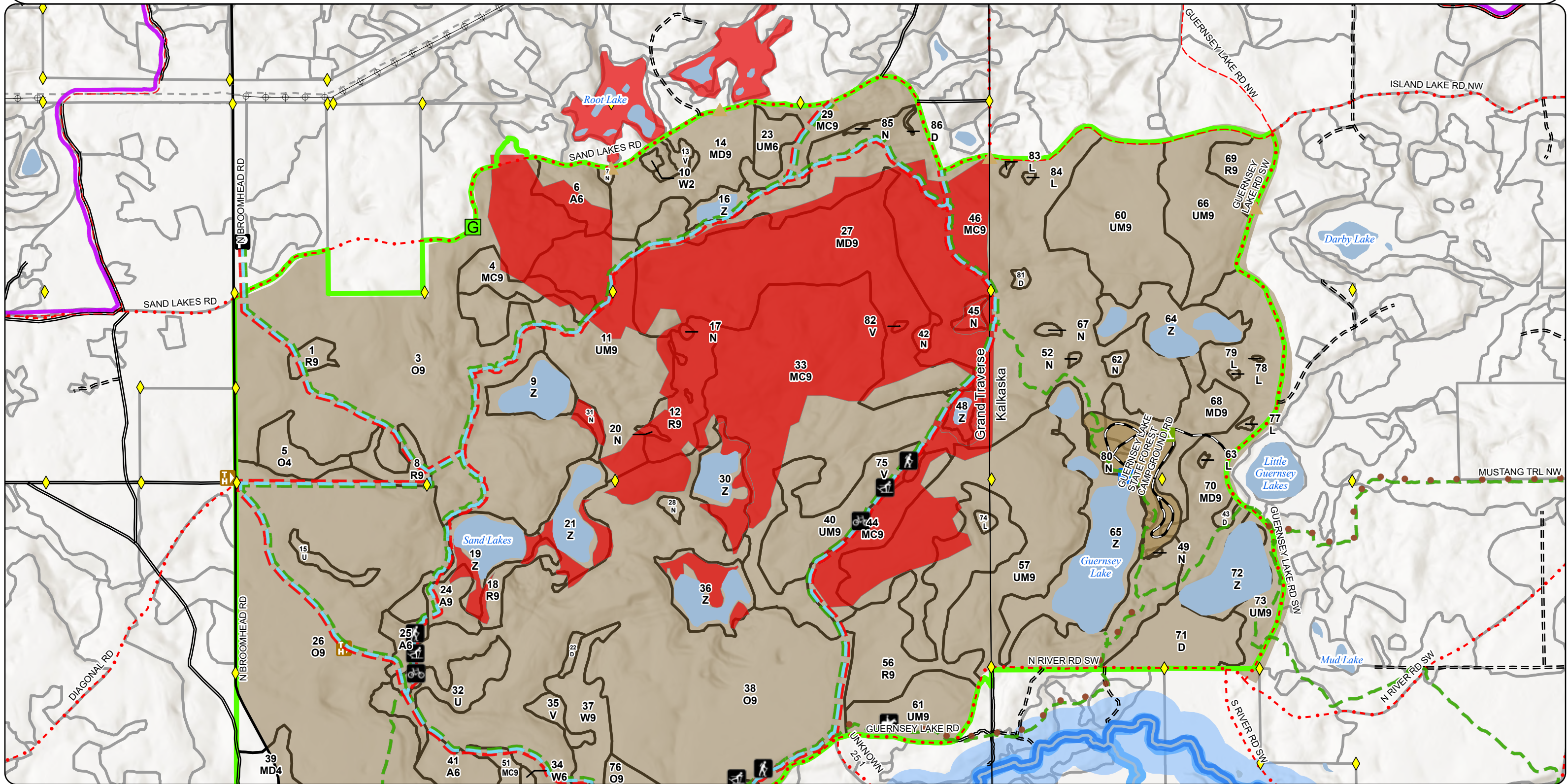


Special Conservation Areas & Site Conditions Map

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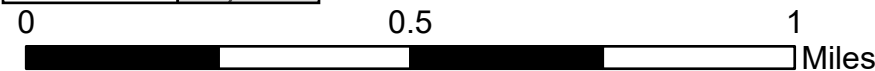


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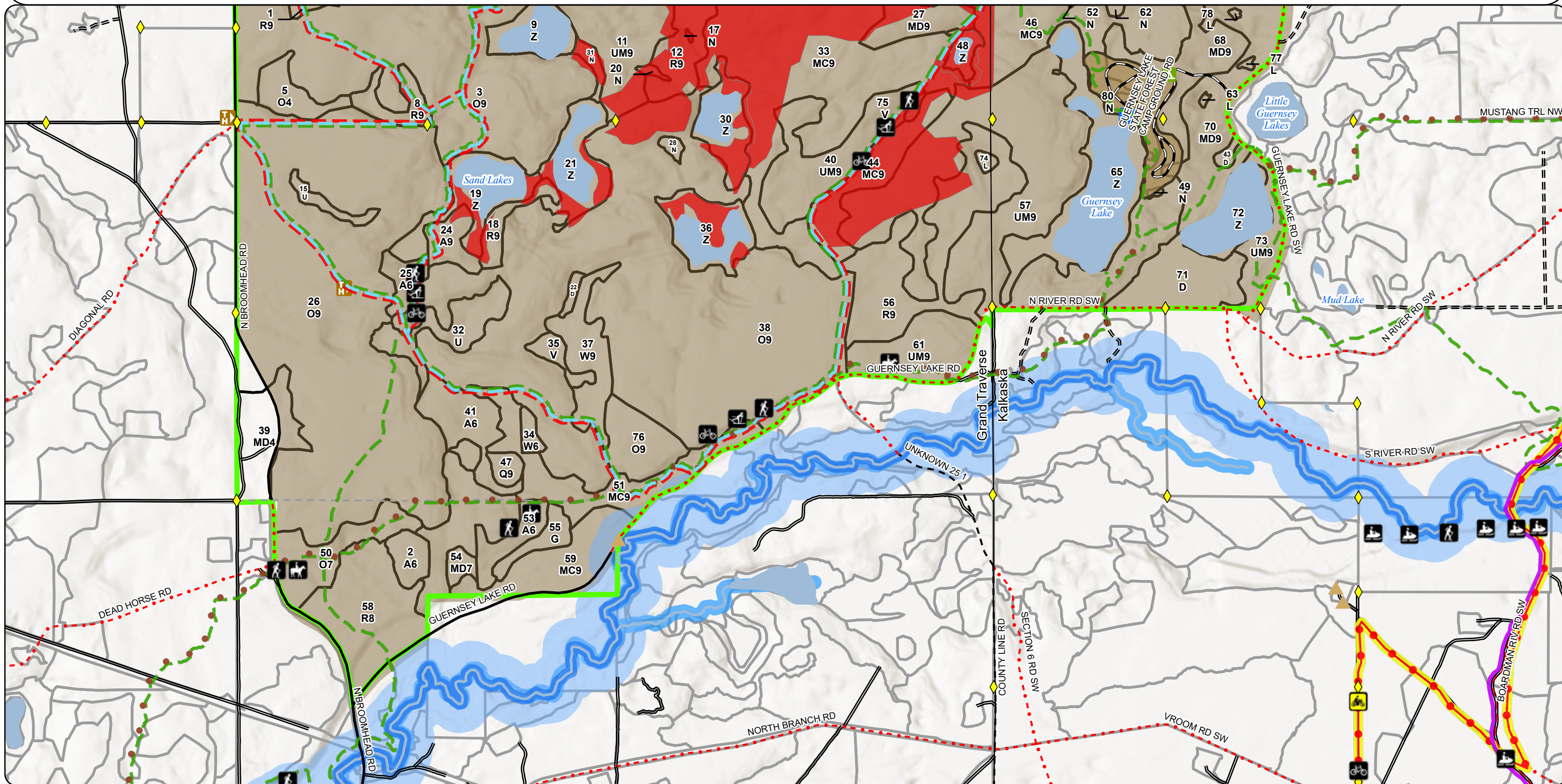


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- High Conservation Value Areas
- Ecological Reference Areas

- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Dedicated Management Areas
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- State Forest Campground



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	0	19	49	0	0	10	0	0	0	0	0	0	0	0	0	78
Bog	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Low-Density Trees	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Lowland Conifers	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Marsh	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	4	0	108	136	80	0	0	0	0	26	354
Oak	0	0	0	0	0	0	0	0	0	0	25	307	697	0	0	0	0	0	1029
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	557	0	0	15	0	0	0	0	571
Red Pine	0	0	0	0	0	0	0	0	0	8	140	0	0	25	0	0	0	0	173
Treed Bog	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Upland Mixed Forest	0	0	0	0	10	0	0	0	0	0	282	137	0	0	0	0	0	0	429
Water	230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	230
White Pine	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	23	27
Total	331	0	0	0	33	49	0	0	21	8	1112	580	777	40	0	0	0	49	2999



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 45
Total Compartment Acres: 2,998

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

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		0	0	0	0	156	0	0	0	0	163
Next Step		0	0	0	0	0	0	0	50	0	156
	Total	0	0	0	0	156	0	0	50	0	319

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

5	61045005-Burn	12.0	4126 - White, Black, N. Pin Oak	4	107	1-50	Burn	Prescribed Burn	3303 - Mixed Low Density Trees	Previous Inventory	No
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Prescription Specs: Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting

Next Step Treatments: Openings Mgmt., Other - Specify

Acceptable Regen:

Other Comment: This area around the Sand Lakes Quiet Area exhibits some diverse herbaceous ground flora that will benefit from occasional fire. Use MIST (minimal impact suppression tactics).

Site Condition:

Proposed Start Date: 10/01/2027

15	61045015-Burn	4.8	330 - Low-Density Trees	99			Burn	Prescribed Burn	3303 - Mixed Low Density Trees	Previous Inventory	No
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Prescription Specs: Burn on a rotational basis. The goal of prescribed burning is to restore and maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting gr

Next Step Treatments: Openings Mgmt., Other - Specify

Acceptable Regen:

Other Comment: Expand burn area toward trail to minimize need to new burn line and to take advantage of existing canopy gaps and ground flora. Good area to showcase the Department's skill in maintaining natural ecosystems with minimal ground disturbance.

Site Condition:

Proposed Start Date: 10/01/2027

32	61045032-Burn	20.2	330 - Low-Density Trees	99			Burn	Prescribed Burn	3303 - Mixed Low Density Trees	Previous Inventory	No
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Prescription Specs: Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting

Next Step Treatments: Openings Mgmt., Other - Specify

Acceptable Regen:

Other Comment: This area around the Sand Lakes Quiet Area exhibits some diverse herbaceous ground flora that will benefit from occasional fire. Use MIST (minimal impact suppression tactics).

Site Condition:

Proposed Start Date: 10/01/2027

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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
38 61045038-Burn	3.7	4129 - Mixed Oak	9	112	111-140	Burn	Prescribed Burn	3303 - Mixed Low Density Trees	Previous Inventory	No
<u>Prescription Specs:</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on currents needs of restoration such as reducing woody encroachment or promoting <u>Next Step Treatments:</u> Other, Other - Specify <u>Acceptable Regen:</u> <u>Other Comment:</u> This area around the Sand Lakes Quiet Area exhibits some diverse herbaceous ground flora that will benefit from occasional fire. Use MIST (minimal impact suppression tactics). <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
39 61045039-Burn	25.6	4191 - Mixed Upland Deciduous with Conifer	4	112	1-50	Burn	Prescribed Burn	3303 - Mixed Low Density Trees	Previous Inventory	No
<u>Prescription Specs:</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on currents needs of restoration such as reducing woody encroachment or promoting <u>Next Step Treatments:</u> Openings Mgmt., Other - Specify <u>Acceptable Regen:</u> <u>Other Comment:</u> This area around the Sand Lakes Quiet Area exhibits some diverse herbaceous ground flora that will benefit from occasional fire. Use MIST (minimal impact suppression tactics). <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
50 61045050-Burn	39.5	4126 - White, Black, N. Pin Oak	7	96	1-50	Burn	Prescribed Burn	3303 - Mixed Low Density Trees	Previous Inventory	No
<u>Prescription Specs:</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on currents needs of restoration such as reducing woody encroachment or promoting <u>Next Step Treatments:</u> Openings Mgmt., Other - Specify <u>Acceptable Regen:</u> <u>Other Comment:</u> This area around the Sand Lakes Quiet Area exhibits some diverse herbaceous ground flora that will benefit from occasional fire. Use MIST (minimal impact suppression tactics). <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										

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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
54 61045054-Burn	3.9	4191 - Mixed Upland Deciduous with Conifer	7	71	1-50	Burn	Prescribed Burn	3303 - Mixed Low Density Trees	Previous Inventory	No
<u>Prescription Specs:</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting										
<u>Next Step Treatments:</u> Openings Mgmt., Other - Specify										
<u>Acceptable Regen:</u>										
<u>Other Comment:</u> This area around the Sand Lakes Quiet Area exhibits some diverse herbaceous ground flora that will benefit from occasional fire. Use MIST (minimal impact suppression tactics).										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2027										
55 61045055-Opening	7.6	310 - Herbaceous Openland	99			Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
<u>Prescription Specs:</u> May want/need to plant herbaceous species for wildlife forage needs. Consider an appropriate native species, but don't rule out pasture mix (i.e. alfalfa/clover). Consider planting native shrubs around perimeter and/or in small islands. Maintain as needed										
<u>Next Step Treatments:</u>										
<u>Acceptable Regen:</u>										
<u>Other Comment:</u>										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2027										
58 61045058-Burn	46.1	42111 - Planted Red Pine, Mixed Deciduous	8	91	51-80	Burn	Prescribed Burn	3303 - Mixed Low Density Trees	Previous Inventory	No
<u>Prescription Specs:</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting										
<u>Next Step Treatments:</u> Other, Other - Specify										
<u>Acceptable Regen:</u>										
<u>Other Comment:</u> This area around the Sand Lakes Quiet Area exhibits some diverse herbaceous ground flora that will benefit from occasional fire. Use MIST (minimal impact suppression tactics).										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2027										

Total Treatment 163.4
Acreage Proposed:



Availability for Management

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

1C

78	0	0	78	Aspen	78
10	10	0	0	Bog	
8	8	0	0	Herbaceous Openland	
25	25	0	0	Low-Density Trees	
7	0	0	7	Lowland Conifers	7
4	4	0	0	Lowland Shrub	
19	19	0	0	Marsh	
353	0	0	353	Mixed Upland Deciduous	353
1028	0	0	1028	Oak	1,028
572	0	0	572	Planted Mixed Pines	572
173	0	0	173	Red Pine	173
35	35	0	0	Treed Bog	
428	0	0	428	Upland Mixed Forest	428
230	230	0	0	Water	
28	0	0	28	White Pine	28
2,998	330		2,668	Total Forested Acres	2,668
	11%		89%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		1C: Other Dept. or Div. process	2,668	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Site condition encompasses Sand Lakes Quiet Area. This entire compartment is an HCVA. Currently, forest management in a traditional sense does not take place within this compartment.								

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
1	42110 - Planted Red Pine	Sawtimber Well	5.3	95	81-110	N/A	Mixed stand, primarily red pine with some planted jack pine although the jp is falling out of stand. Oak present throughout stand with white pine scattered around as well. Natural looking stand.																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>80</td><td>Log</td><td>12</td><td>95</td></tr><tr><td>Jack Pine</td><td>5</td><td>Pole/Log</td><td>9</td><td>95</td></tr><tr><td>White Pine</td><td>5</td><td>Pole/Sap/Log</td><td>7</td><td></td></tr><tr><td>Red Oak</td><td>5</td><td>Log</td><td>16</td><td></td></tr><tr><td>White Oak</td><td>5</td><td>Log</td><td>16</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	80	Log	12	95	Jack Pine	5	Pole/Log	9	95	White Pine	5	Pole/Sap/Log	7		Red Oak	5	Log	16		White Oak	5	Log	16		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Oak</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Red Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Oak	Low	5 - 10 feet	5 - 10 feet	White Pine	Low	10 - 20 feet	10 - 20 feet	Red Maple	Low	5 - 10 feet	5 - 10 feet					
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2	4130 - Aspen	Poletimber Well	8.2	39	51-80	N/A	Aspen stand growing fairly well, pine and oak throughout and developing in understory in places. Stand was cut in 1987 under tsale contract 61-020-84-01.																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>68</td><td>Pole/Sapling</td><td>6</td><td>39</td></tr><tr><td>Red Oak</td><td>5</td><td>Sapling</td><td>4</td><td>39</td></tr><tr><td>Red Maple</td><td>15</td><td>Pole/Sapling</td><td>5</td><td>39</td></tr><tr><td>White Oak</td><td>5</td><td>Sapling/Pole</td><td>4</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Red Pine</td><td>2</td><td>Log/Pole</td><td>10</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Bigtooth Aspen	68	Pole/Sapling	6	39	Red Oak	5	Sapling	4	39	Red Maple	15	Pole/Sapling	5	39	White Oak	5	Sapling/Pole	4		White Pine	5	Log/Pole	10		Red Pine	2	Log/Pole	10		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Hazelnut (Spp.)</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Low	5 - 10 feet	5 - 10 feet	White Pine	Low	5 - 10 feet	5 - 10 feet	Hazelnut (Spp.)	Low	5 - 10 feet	5 - 10 feet
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Hazelnut (Spp.)	Low	5 - 10 feet	5 - 10 feet																																																				
3	4124 - Red with White Oak	Sawtimber Well	294.8	107	111-140	N/A	Mixed oak/pine stand with white pine understory developing throughout, some areas more dense than others. Aspen is still viable but some mortality. Oak is growing well, no decline observed. Large stand so there is some variability in species composition and overall stocking. Small dried up bog less than an acre in central portion of stand along with some more open pockets that are slowly filling in with white pine.																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>45</td><td>Log</td><td>13</td><td>107</td></tr><tr><td>White Oak</td><td>35</td><td>Log</td><td>13</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Log/Pole</td><td>12</td><td>90</td></tr><tr><td>Red Pine</td><td>5</td><td>Log/Pole</td><td>11</td><td>90</td></tr><tr><td>Red Maple</td><td>5</td><td>Pole/Log</td><td>9</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>5</td><td>Log</td><td>13</td><td>90</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	45	Log	13	107	White Oak	35	Log	13		White Pine	5	Log/Pole	12	90	Red Pine	5	Log/Pole	11	90	Red Maple	5	Pole/Log	9		Bigtooth Aspen	5	Log	13	90	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Pine</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Red Maple</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Variable	Red Pine	Low	10 - 20 feet	10 - 20 feet	Red Maple	Low	10 - 20 feet	10 - 20 feet
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Red Maple	Low	10 - 20 feet	10 - 20 feet																																																				
4	42140 - Planted Mixed Pine	Sawtimber Well	14.5	121	141-170	N/A	2011: Small area of exceedingly large red pine could be an old growth stand. 2016: This stand is not unique for this compartment. Stand is in good condition. Pine has been stagnant in diameter growth for many years.																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>10</td><td>Log/Pole</td><td>12</td><td></td></tr><tr><td>White Pine</td><td>50</td><td>Log/Pole/XLog</td><td>15</td><td>121</td></tr><tr><td>Red Pine</td><td>40</td><td>Log/XLog</td><td>15</td><td>121</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	10	Log/Pole	12		White Pine	50	Log/Pole/XLog	15	121	Red Pine	40	Log/XLog	15	121	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	10 - 20 feet	10 - 20 feet																							
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5	4126 - White, Black, N. Pin Oak	Poletimber Poor	12.0	107	1-50	N/A	Low stocked stand, somewhat lower elevation. Frost pocket appearance, some mortality. Does not appear to be oak wilt.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
6	4130 - Aspen	Poletimber Well	20.0	43	51-80	N/A	Decent quality BTA stand with a mix of species slightly larger in size, may have been left when aspen was harvested. Merged with small aspen stand to the east that was harvested at same time, now a multi-part stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		23	Sapling	4	43	White Pine		Low	Variable	Variable	
Bigtooth Aspen		60	Pole/Sapling	6	43						
White Pine		10	Pole/Log	8							
Red Oak		5	Pole/Sapling	6							
White Oak		2	Pole	5							
7	623 - Emergent Wetland	None	0.9			No					
8	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	10.1	97	81-110	N/A	Somewhat lowly stocked pine stand for age, jack pine declining and falling out of stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size		
White Oak		8	Pole/Log	8		White Oak	Medium	10 - 20 feet	10 - 20 feet		
White Pine		2	Pole	8	102	Red Maple	Low	>20 feet	>20 feet		
Red Pine		65	Log	13	97	White Pine	Low	10 - 20 feet	10 - 20 feet		
Jack Pine		10	Log/Pole	11	97						
Red Oak		5	Log	14							
Red Maple		10	Pole/Log	8							
9	500 - Water	None	16.8			No	Sand Lake #1. Includes open shoreline that is periodically and/or seasonally submerged.				
10	42200 - Natural White Pine	Sapling Medium	1.4	35	Immature	N/A	Old well site populated primarily by white pine and autumn olive.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size		
White Pine		60	Pole/Sapling	5	35	Autumn Olive	High	5 - 10 feet	5 - 10 feet		
Red Pine		40	Sapling	4							
11	4310 - Pine, Oak Mix	Sawtimber Well	97.1	102	141-170	N/A	Pine oak mixed stand with quite dense white pine understory in spots, some significant damage from snow which has caused some pockets of regeneration to appear bent over and/or dead. Some portions of stand were planted to red pine which can be seen but overall stand looks natural with scattered large pine throughout.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size		
Red Oak		20	Log	14		White Pine	High	Variable	Variable		
White Pine		35	Log/Pole/XLog	14	102	Red Pine	Low	5 - 10 feet	5 - 10 feet		
Red Pine		20	Log/Pole	12	97						
White Oak		15	Log	14							
Bigtooth Aspen		5	Log	12							
Red Maple		5	Log/Pole	10							



MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
12	42210 - Natural Red Pine	Sawtimber Well	24.6	127	141-170	N/A	Red and white pine stand with oak present. White pine understory developing with areas that are fully stocked, variable in height/size. Natural pine stand with stand age based on core of larger red pine, but pockets look to be of plantation origin. Could not find planting records for this stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Pole/Log	8		Red Maple		Low	Variable	Variable
White Pine		25	Log/Pole/XLog	15		White Pine		High	Variable	Variable
Red Pine		60	Log	14	127					
Red Oak		5	Log	14						
White Oak		5	Log/Pole	12						
13	6225 - Bog	None	2.5			No	Small lowland/pond looks to be emergent and periodically flooded. Currently very little water.			
14	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	41.1	97	171-200	N/A	Mixed oak/pine with wp understory. Low quality overstocked oak. May self thin as suppressed trees fall out of stand. Part of this stand burned in 1999. Eastern half. Some small salvage must have been done. A small cut 1.5-2 acres, NW of Stand 17.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		25	Log/Pole	10	97	Red Pine		Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen		15	Log	11		White Pine		Medium	10 - 20 feet	10 - 20 feet
White Pine		20	Log/Pole	11	97					
Red Pine		15	Log	12	119					
White Oak		20	Log/Pole	11						
15	330 - Low-Density Trees	None	4.8			No	Small opening with low density trees present.			
							Sub-Canopy Species	Density	Avg. Height	Size
							Jack Pine	Low	5 - 10 feet	5 - 10 feet
							Oak (spp.)	Low	10 - 20 feet	10 - 20 feet
16	500 - Water	None	6.9			No	Small lake, phragmites quite dense along edges. Trail runs along southern edge of lake.			
17	623 - Emergent Wetland	None	1.5			No	Small emergent wetland w/in red pine stand.			
							Sub-Canopy Species	Density	Avg. Height	Size
							Red Maple	Low	Variable	Variable
							White Pine	Trace	5 - 10 feet	5 - 10 feet
18	42210 - Natural Red Pine	Sawtimber Well	8.1	80	111-140	N/A	Planted red pine on slope leading to lake. Pine is growing fairly well with oak and scattered aspen and red maple. White pine is evenly distributed throughout.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Pole/Sapling	6		White Pine		Medium	Variable	Variable
Red Oak		5	Log/Pole	12		Red Maple		Low	Variable	Variable
Bigtooth Aspen		5	Pole/Log	8		Witch Hazel		Low	Variable	Variable
White Pine		15	Log/Pole	12						
Red Pine		70	Log/Pole	12	80					



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
19	500 - Water	None	26.7			No	Small lake includes shoreline area. Phragmites present.
20	623 - Emergent Wetland	None	1.0			No	Small emergent wetland.
21	500 - Water	None	23.4			No	Lake, stand area includes shoreline area, phragmites present.
22	6224 - Treed Bog	None	2.0			No	Narrow bog stand with white pine and red maple lowly stocked around edges, fair amount of dead standing white pine saplings likely due to water level fluctuations.







Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
38	4129 - Mixed Oak	Sawtimber Well	373.2	112	111-140	N/A	Large, now multi-part oak/pine stand with pine inclusions primarily concentrated around drains and depressions. Some aspen clones also found throughout stand. Species and stocking variability along edges of stand, pockets of aspen and areas where both red and white pine are present in sub and mid canopy under oak/aspen.																																																																	
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39	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	25.6	112	1-50	N/A	Low density trees. Appears to be a small frost pocket bisected by Broomhead Rd, slowly filling in with open grown pine and some deciduous trees/shrubs.																																																																	
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40	4310 - Pine, Oak Mix	Sawtimber Well	39.9	106	111-140	N/A	Mixed oak pine stand, some variability in species composition. White pine understory dense in spots, overall medium stocking with height variability. Sand lakes trail aling eastern edge. Stand Straddles 2 quarter-quarter quads. One planted in red & jack pine in 1929 and the other planted in red and white pine in 1932. Trace hemlock in stand. Evidence of planted trees throughout but also scattered older, natural red and white pine present.																																																																	
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41	4130 - Aspen	Poletimber Well	21.0	43		N/A	Aspen stand with decent stems per acre, growing fairly well. Relatively open understory, pockets with high water table influence, especially along edges near stands 51 and 47. Lower stocking levels in central area of stand with higher concentration of white pine.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
42	623 - Emergent Wetland	None	2.2			No	Emergent wetland/bog.																														
43	6224 - Treed Bog	None	1.9			No	Small treed bog, white pine and trace JP and birch.																														
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44	42140 - Planted Mixed Pine	Sawtimber Well	24.4	97	141-170	N/A	Area planted with Red and Jack pine in 1929. Jack pine has fallen out of stand, some pockets of mid canopy white pine and red maple in the place of overstory openings. Larger diameter pine and red oak on NW slope																														
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45	623 - Emergent Wetland	None	3.1			No	Small emergent wetland that is more likely to have water in it year round. Some water present.																														
46	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	260.4	97	141-170	N/A	Majority of stand planted to red, white and jack pine, with red pine dominant, white pine distributed throughout, jack pine has fallen out of stand. Red pine good quality, very tall. Small pocket of hemlock on north end of the stand facing the road. Some small vernal pond inclusions in stand closer to larger bodies of water. Small stick nest in WP adjacent to nct and big Guernsey lake. Appears to be a small oak wilt pocket that was recently vibratory plowed around. Spore producing trees marked.																														
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47	6124 - Lowland Spruce-Fir	Sawtimber Well	7.0	70	51-80	N/A	East part of this multipart stand is generally younger but the same species mix. Stand provides small pocket of diversity and cover in larger expanse of oak and pine with younger aspen nearby.																														
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48	500 - Water	None	5.4			No	Small pond with emergent wetland along edges depending on water table/level. Rec trail passes along lake edge and over small isthmus. Bench at lake edge.																														
49	6239 - Mixed Emergent Wetland	None	0.5			No	Small vernal wetland area with some saplings and larger white pine around perimeter.																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
50	4126 - White, Black, N. Pin Oak	Sawtimber Poor	24.7	96	1-50	N/A	Low stocked forested stand. Appears to be frost pocket, similar to some other nearby stands in this area as topography slopes towards Boardman River.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Oak	50	Log/Pole	11	96	Witch Hazel	Low		< 5 feet	< 5 feet
Bigtooth Aspen	10	Pole	7		White Pine	Low		10 - 20 feet	10 - 20 feet
Red Pine	4	Log	11	99	Black Cherry	Low		< 5 feet	< 5 feet
Jack Pine	4	Log/Pole	10						
Red Oak	10	Log	13						
White Pine	2	Log/Pole	12						
Black Cherry	10	Pole/Log	9						
Red Maple	10	Pole	6						
51	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	37.5	97	111-140	N/A	Based on planting records, it appears this area was planted to white, red, jack pine mix, jack pine has fallen out or is dead standing. Stand includes some lowland influence, specifically adjacent to stand 47.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Pole	6		Red Oak	Low		Variable	Variable
Red Oak	8	Pole	6		White Pine	High		Variable	Variable
White Oak	10	Log/Pole/XLog	16						
White Pine	38	Log/Pole	12	97					
Red Pine	30	Log	14	97					
Jack Pine	2	Log/Pole	11						
Quaking Aspen	7	Log/Pole	10						
52	623 - Emergent Wetland	None	0.6			No	Small emergent wetland/bog surrounded by upland oak/pine forest.		
53	4130 - Aspen	Poletimber Well	11.0	39	51-80	N/A	Quaking aspen stand growing fairly well, not great quality. Cherry and white pine developing in understory. Cut in 1987 under tsale contract 61-020-84-01.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	10	Pole/Sapling	5	39	Hazelnut (Spp.)	Low		5 - 10 feet	5 - 10 feet
Quaking Aspen	55	Pole/Sapling	5	39	White Pine	Low		5 - 10 feet	5 - 10 feet
White Pine	15	Pole/Sapling	5		Black Cherry	Medium		< 5 feet	< 5 feet
Black Cherry	10	Pole/Sapling	5						
Red Maple	10	Pole/Sapling	5						
54	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	3.9	71	1-50	N/A	Small stand, maybe some frost influence - low density trees. Poor quality cherry and maple with oak and wp. Red pine is fair quality, scattered throughout.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Pole/Sapling	7		Black Cherry	Medium		5 - 10 feet	5 - 10 feet
White Oak	10	Log/Pole	11	96	White Pine	Low		5 - 10 feet	5 - 10 feet
White Pine	15	Log/Pole	10		Hazelnut (Spp.)	Low		5 - 10 feet	5 - 10 feet
Red Oak	15	Log	11	99					
Black Cherry	35	Log/Pole	11	71					
Red Pine	15	Log/Pole	11						



SAJJ



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
67	623 - Emergent Wetland	None	1.1			No																																																
68	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	80.2	111	111-140	N/A	Oak stand with white pine and scattered red pine. Aspen and red maple also present throughout in lower density. CG w/in stand, oak quilt pocket was treated in CG area and looks to have controlled issue. Trace birch in areas - this quarter-quarter section planted in 1929 with white pine.																																															
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69	42110 - Planted Red Pine	Sawtimber Well	14.1	98	141-170	N/A	Quarter-quarter section planted in 1928 with red and jack pine. Jack pine is falling out of stand freeing up red pine which is growing fairly well considering it has not been managed. West facing slope off Guernsey Lake rd has white pine more common, this slope looks like it was planted to a mix of red and white pine or seeded in naturally.																																															
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70	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	66.7	90	111-140	N/A	Portion of stand planted in 1929, oak is more dominant in areas specifically the southern portion of the stand. Pine is more common in north part of stand. Part of Guernsey Lake CG falls within this stand. Small vernal lowland pockets present in central area of this stand. Trace hemlock on north facing slopes, white pine dense in areas of understory. Fair amount of older, large/natural red and white pine distributed throughout stand, reflected in size class for each species.																																															
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71	6224 - Treed Bog	None	29.1			No	Tag alder with scattered low-density aspen - classified as a treed bog but portions of stand are likely emergent meadow with some small hummocks of drier ground protruding into stand edges.																																															
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72	500 - Water	None	19.1			No	Little Guernsey Lake.																																															





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
81	6224 - Treed Bog	None	1.2			No	Small bog with low density saplings around perimeter and a lowland shrub layer present in areas.
82	6225 - Bog	None	0.5			No	Lowland bog with scattered shrub layer and some dead standing saplings from water fluctuations.
83	6221 - Fen	None	0.5			No	Small fen/emergent wetland.
84	6221 - Fen	None	0.5			No	Small fen with scattered dead saplings from water level fluctuations.
85	6239 - Mixed Emergent Wetland	None	0.5			No	Small forested wetland, low density trees.
86	6224 - Treed Bog	None	0.4			No	Small bog area with scattered trees mainly around perimeter.