



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32212

Entry Year 2024

Acreage: 1,460

County Marquette

Management Area: Peshekee Highlands

Stand Examiner: Jason Caron

Legal Description:

T48N R29W Section(s) 2, 12 – 14, 22 - 24

Identified Planning Goals:

Management goals range from maintaining timber production and wildlife habitat to protecting water quality. Timber management within this compartment is primarily for fiber production on an even-age basis. Uneven age northern hardwood management does take place, producing quality sawlogs. Wildlife habitat will continue to be maintained as it is within the current cover types.

Soil and topography:

The majority of soils in this compartment are silty loams. They range from being very deep with surface cobbles to shallow soils over bedrock. Soils range from Histosols in the open marshes, Minocqua muck in the drainages, to Peshekee and Keewaydin-Michigamme Rock outcrop complex in the highlands. The topography has considerable and sometimes quite abrupt, relief to it which limits access to the majority of the compartment.

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

Ownership in this vicinity is fairly fragmented. Historically, land has been held by timber companies with scattered State parcels and some private individual holdings. Recently, timber companies have begun to divest their holdings which as led to an increase in the number of private individual parcels. Development is minimal with the majority of it being in camps.

Unique Natural Features:

Potential for rare plants of rich mesic forests: *Carex assiniboinensis*, showy orchids, Ginseng, green spleenwort, Goblin Fern. Potential for rare plants of dry northern forest and dry mesic northern forest: *Dalibarda repens*, pine drops. Potential for goshawk and red shouldered hawk in hardwood stands. Potential for wood turtle along Kipple Creek and Koops Creek.

Archeological, Historical, and Cultural Features:

None identified with HAL

Special Management Designations or Considerations:

Use best management practices to protect riparian areas.

Watershed and Fisheries Considerations:

This compartment contains Kipple Creek, Koops Creek, and the eastern shore of Wolf Lake. Kipple Creek and Koops Creek are both designated Type 1 trout streams less than 50' width with a predicted mean July temperature that ranges from 58.0 to 61.2 °F (cold streams). 300' buffers are recommended for Koops and Kipple Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices. 100' buffers are recommended for Wolf Lake to protect shoreland resources in accordance with Best Management Practices and the Michigan Wildlife Action Plan.

Wildlife Habitat Considerations:

Compartment 212 is found within the Peshekee Highlands Management Area, on a Bedrock Controlled Ground Moraine in east central Baraga and northwestern Marquette County. The dominant Natural Communities are mesic northern forest, poor conifer swamps, and boreal forests. This management area receives significant snowfall and does not offer wintering habitat for deer. As a result, many tree species that do not reliably recruit across the Ecoregion are found in numerous age classes across this management area. Additionally, three of the largest tracts of mature forest in the Great Lakes (e.g. McCormick Tract, Craig's Lake Wilderness State Park, and the Huron Mountain Club) occur within or adjacent to this management area, the best example of a dry mesic northern forest (Rocking Chair Lakes) in the state and two of the top eight examples of Mesic Northern Forest statewide occur here. The current condition and spatial arrangement of these areas provide some of the best opportunities within the WUP, state, and Great Lakes for area sensitive wildlife requiring large tracts of mature forest, mesic conifer or corridors between such areas. Wildlife management issues in this management area are: habitat fragmentation; course woody debris; retain or develop large living and dead standing trees

(for cavities); mesic conifer; mature forest; within-stand diversity; early successional forest (hardwood browse adjacent to closed canopy lowland conifer swamps); and coarse woody debris.

The following have been identified as featured species for the Peshekee Highlands Management area: American marten, blackburnian warbler, gray jay, moose, northern goshawk, and pileated woodpecker.

Mineral Resource and Development Concerns and/or Restrictions

Sections 2, 12-14, & 22-24, T48N-R29W, Marquette County

No known potential exists for commercial oil & gas production in this part of the state. No known active sand/gravel pits occur in the area. Glacial drift is thin or absent and bedrock is at or near the surface. Potential for sand & gravel within the compartment is minimal. Former iron mines occur just south of the compartment, but a fault separated the compartment from iron-bearing formations to the south. There is no known potential for metallic minerals beneath the compartment. There has been no recent State mineral leasing activity in the area.

Vehicle Access:

Vehicle access is very limited within this compartment. The Burma Truck Trail provides the primary access through the center of this compartment and the Dishno Road provides access to the northeast. Few side roads exist due to the topography and are primarily winter access roads.

Survey Needs:

No survey needs for this entry period.

Recreational Facilities and Opportunities:

Snowmobile trail #5 runs through this compartment. Recreational opportunities consist of hunting, fishing, trapping, foraging, and ORV/Snowmobile riding.

Fire Protection:

High rock bluffs and rugged terrain restrict mechanized fire suppression. Portable pumps and hand tools will be the primary method of suppression. Water sources include creeks and small ponds that are well distributed throughout the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

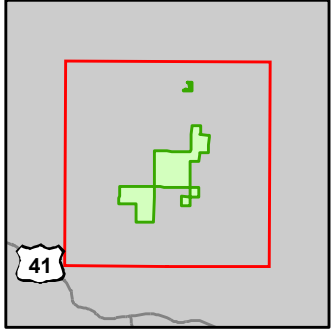
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

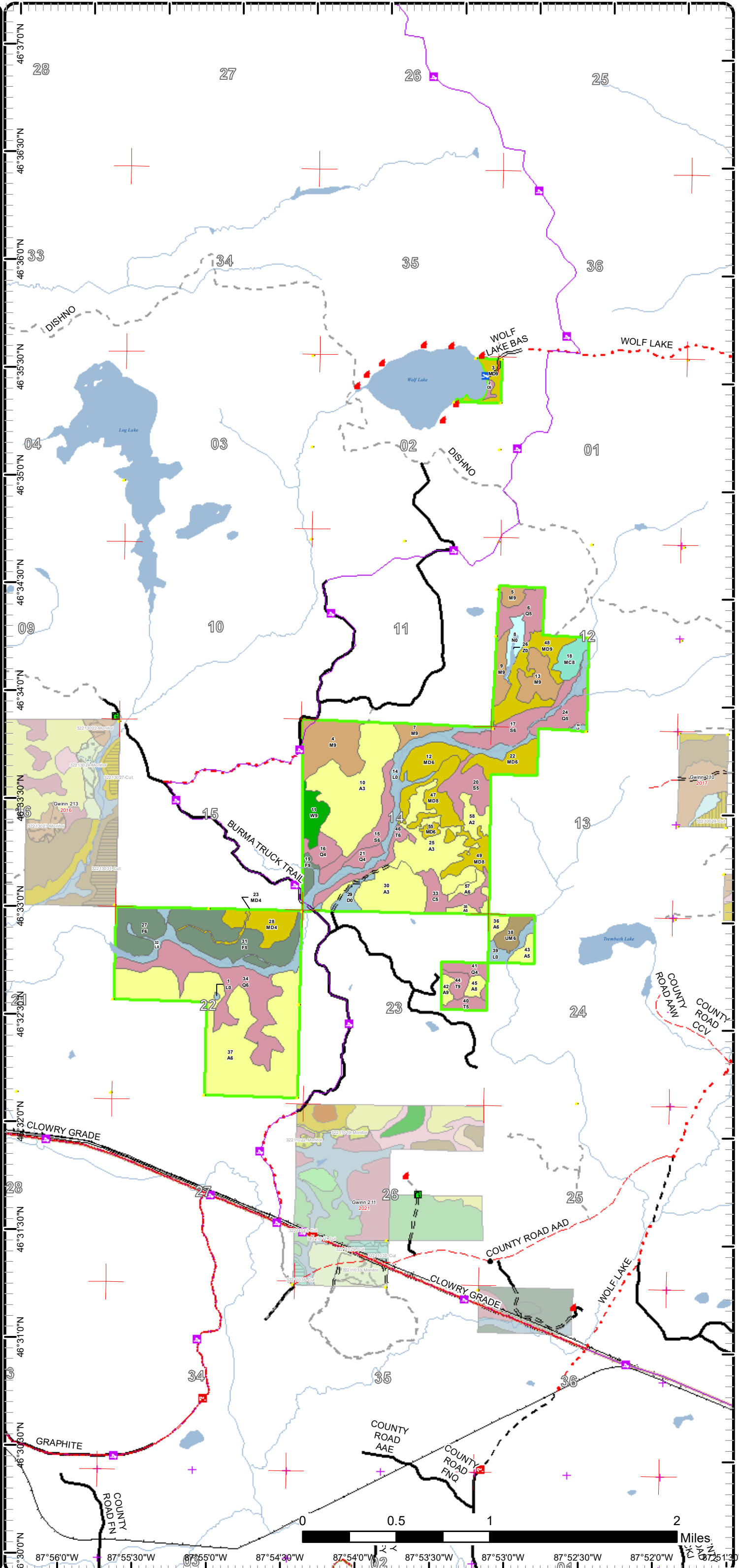
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Overview Map

Compartment: 212
 T48N,R29W, Sec. 02, 12-14, 22-24
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Peshekee Highlands
 YOE: 2024
 Acres: 1459.8 GIS Calculated
 Examiner: Jason Caron
 Map Revised: 8/18/2022
 Map Phase: Web-Post



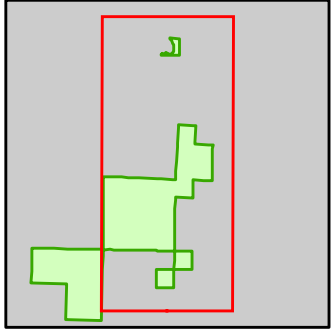
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Designated RailTrail
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Gate
- Boating Access Site
- Culvert
- City
- Powerline
- Compartment Boundary
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



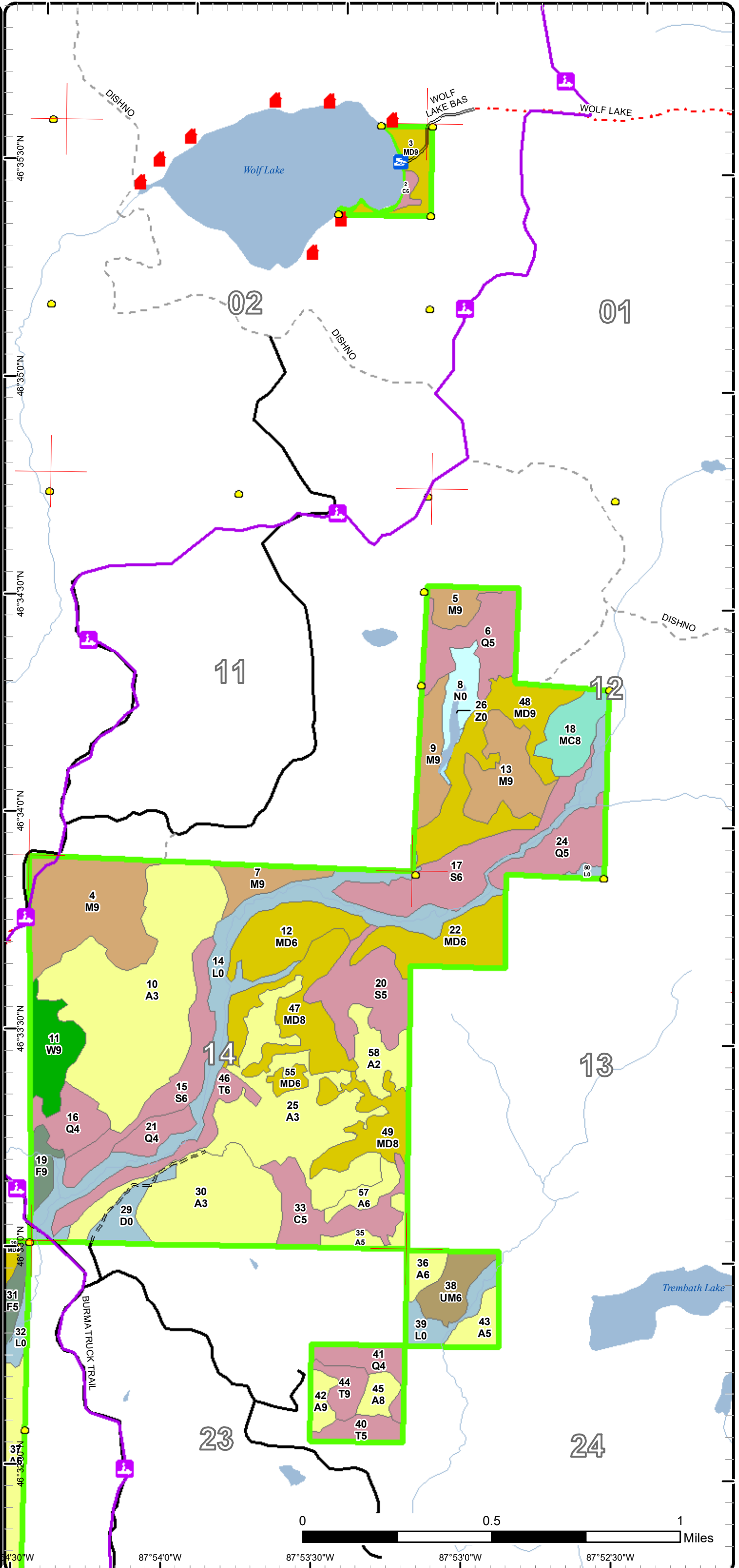
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Cover Type & Treatments Map

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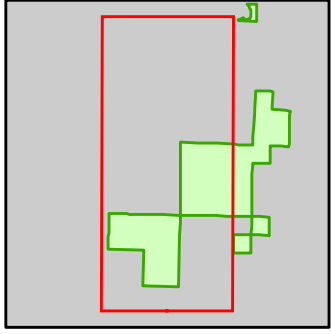


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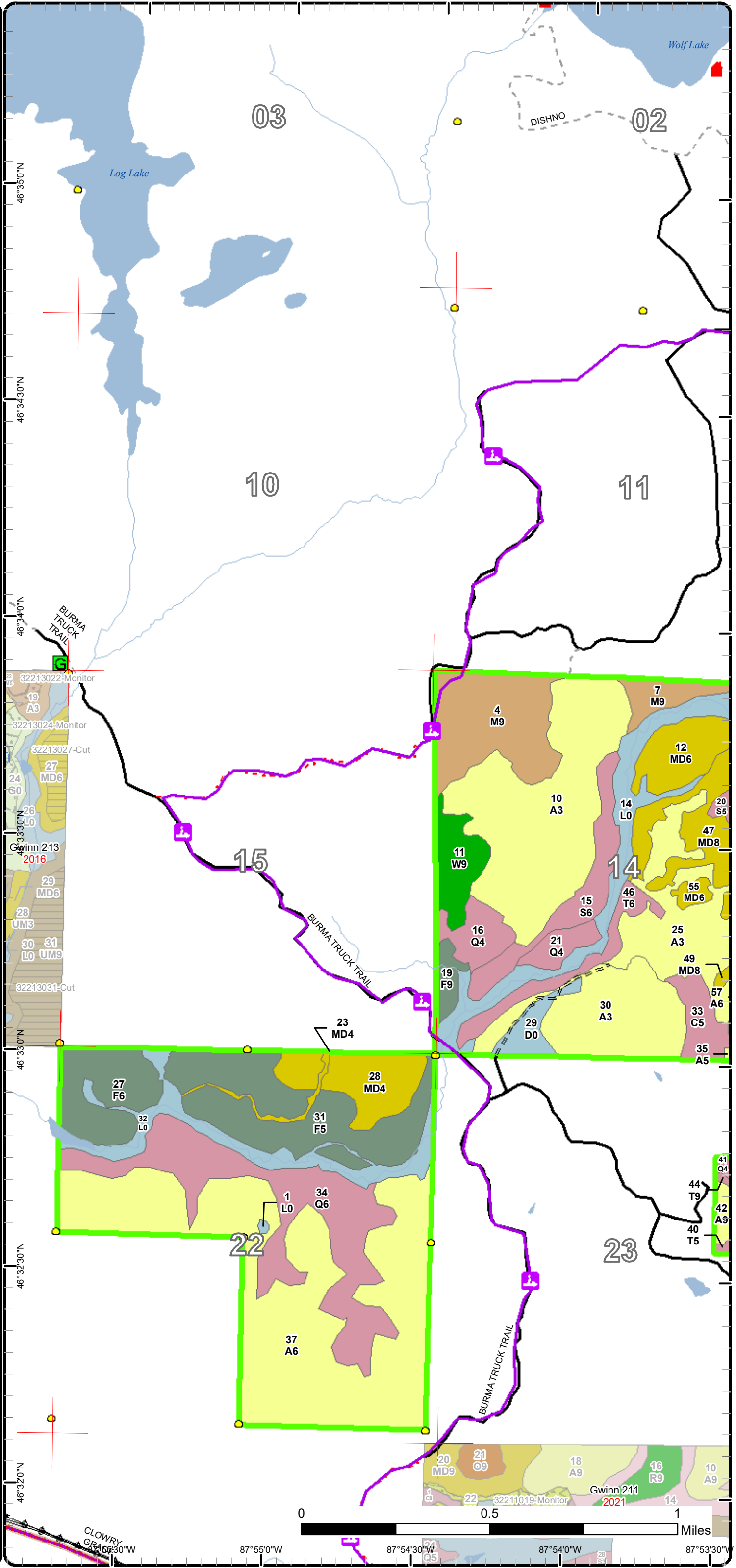


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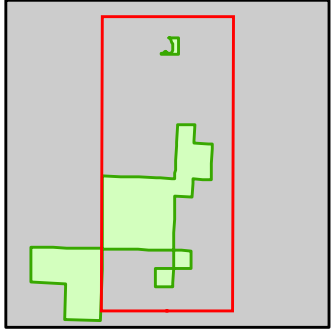
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87°55'0"W 87°54'30"W 87°54'0"W 87°53'30"W

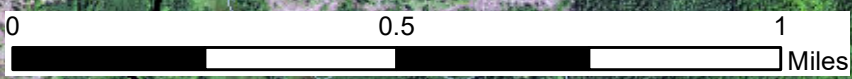
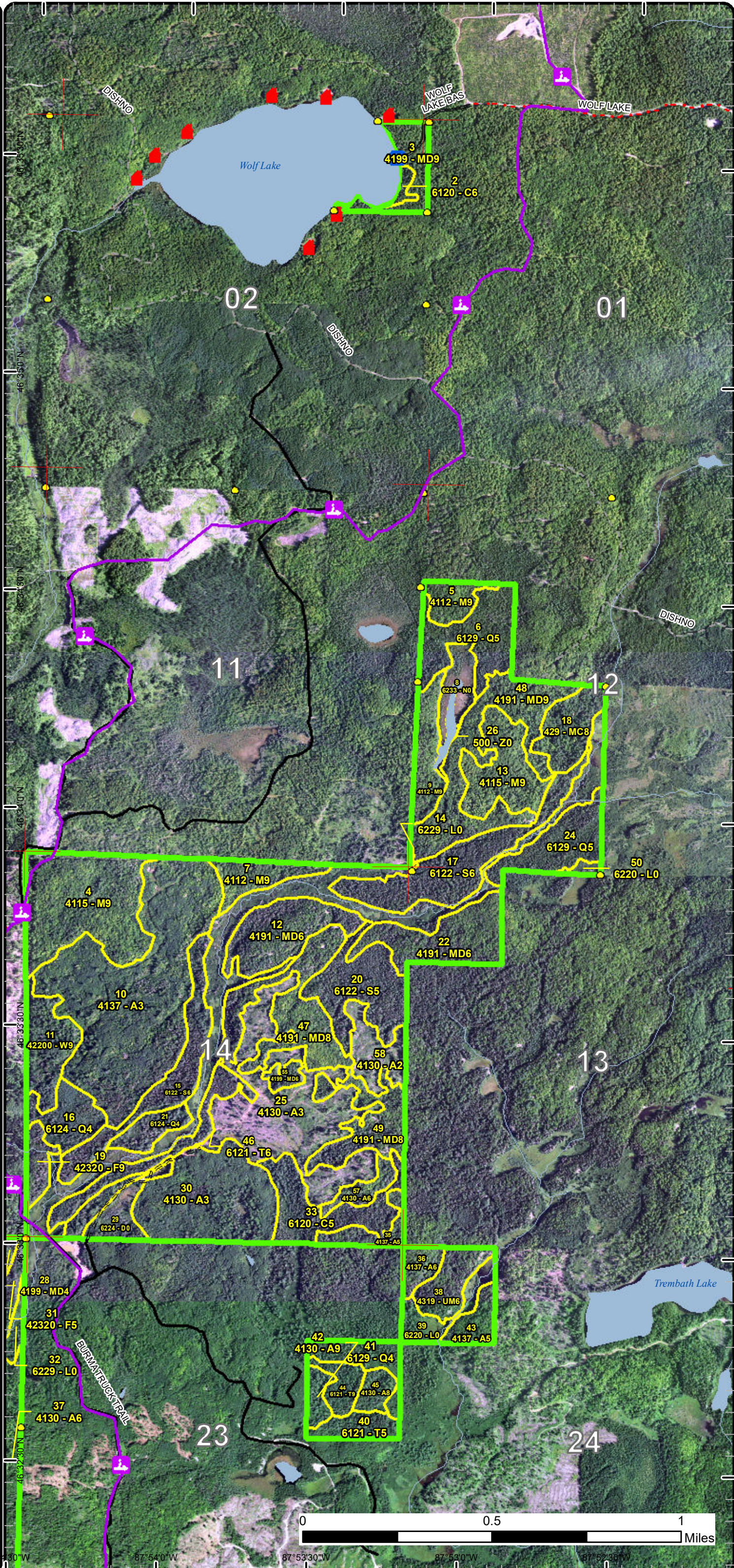
46°32'0"N 46°33'0"N 46°34'0"N 46°35'0"N

Stand Boundary Map

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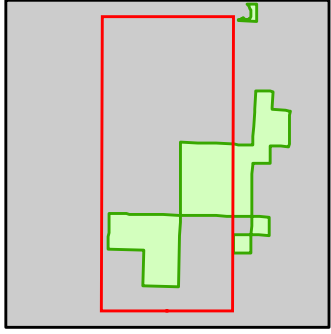
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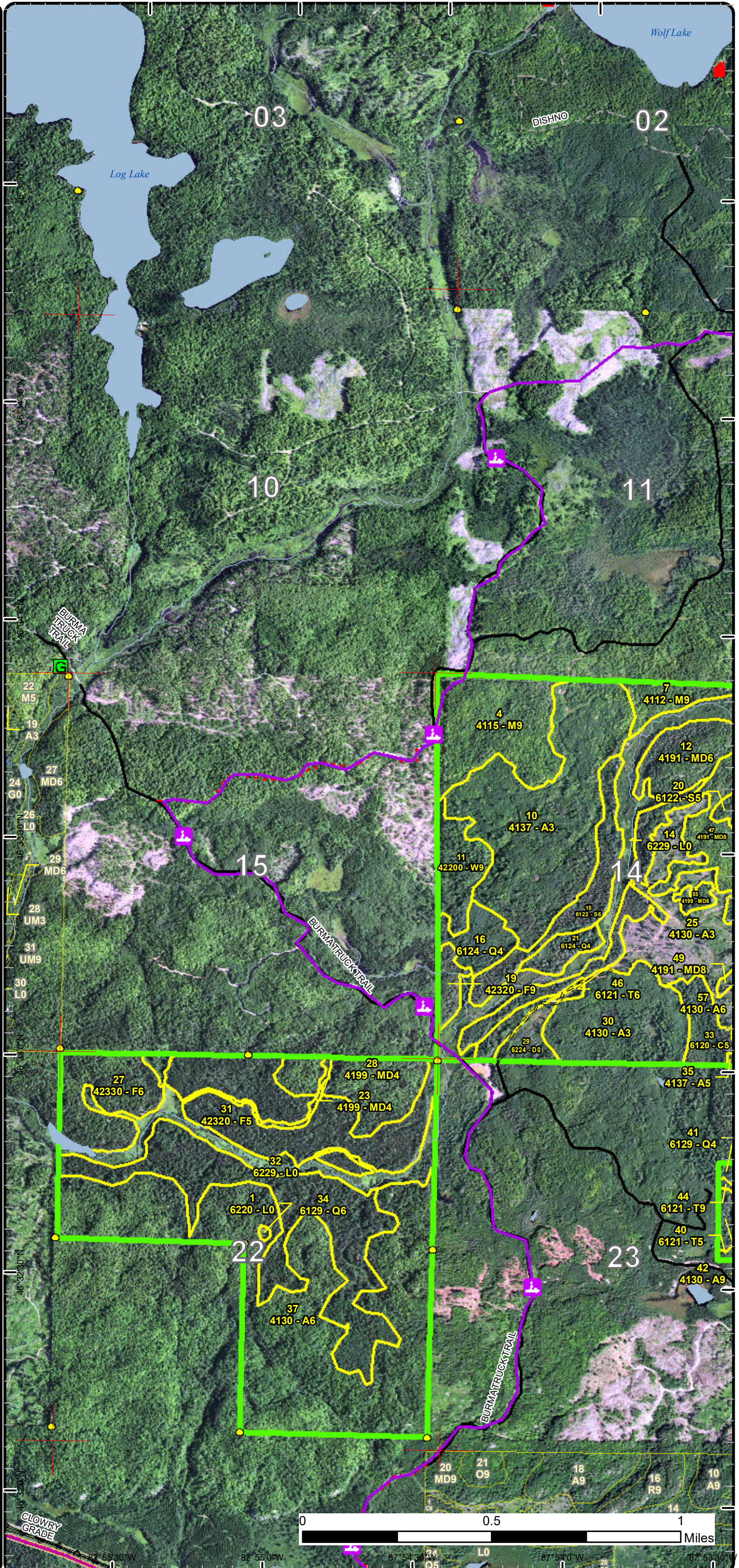
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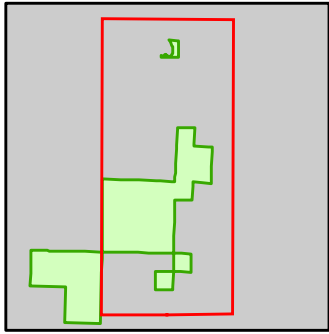


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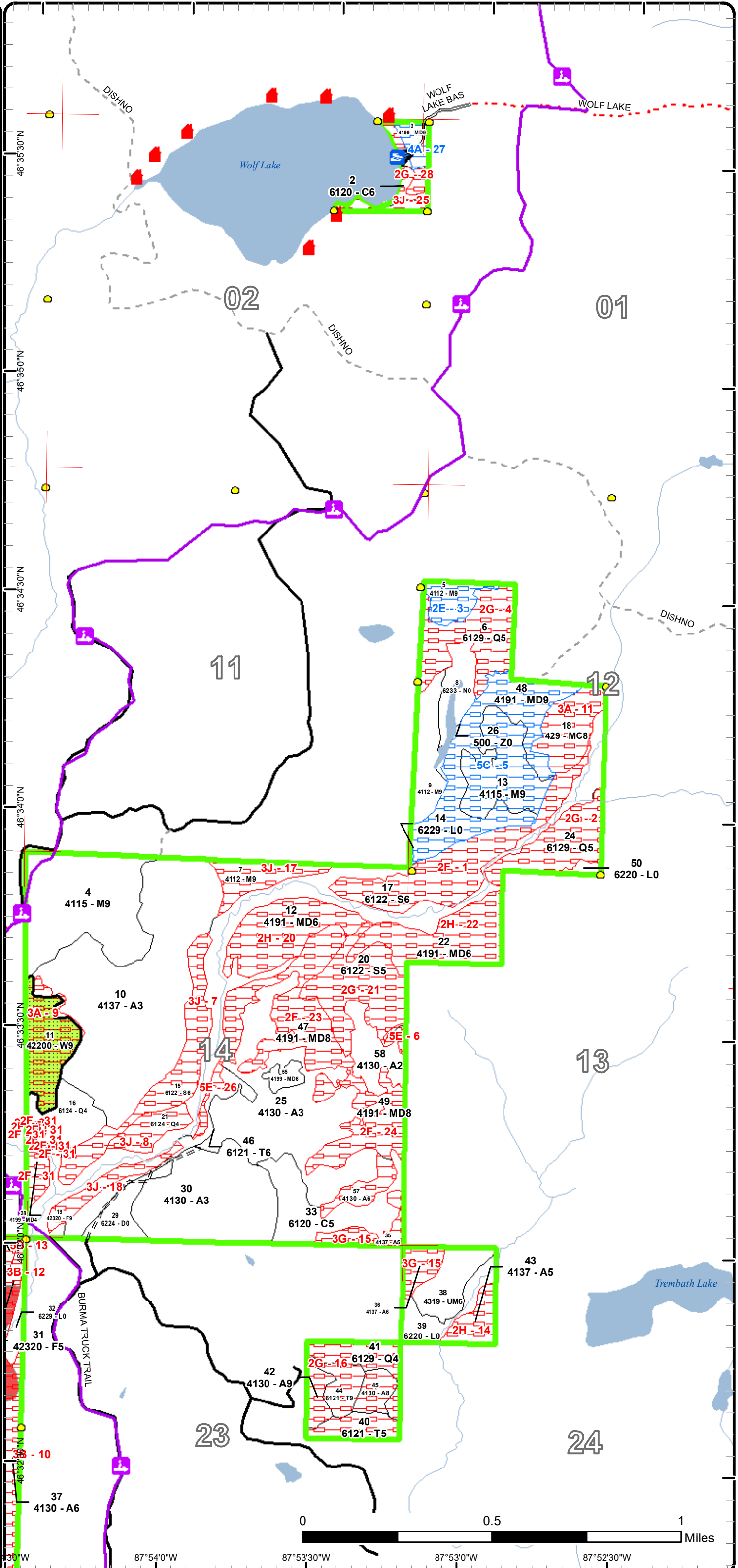


Special Conservation Areas

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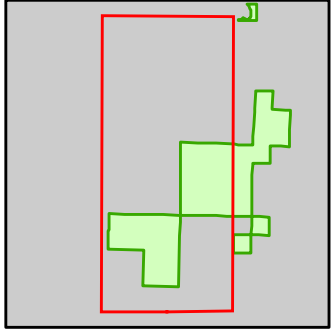


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- 🏠 Cabin
- 🚤 Boating Access Site
- 🟩 Compartment Boundary
- 🟩 Available w/ Constraints
- 2E: Road needed
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 🟨 Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- 🟩 Stand Boundaries
- 🟩 SCA
- 🟩 Cold Water Streams
- 🟩 Cold Water Lakes
- 🟩 Boat Access Site
- 🟩 Possible Type 2 Old Growth

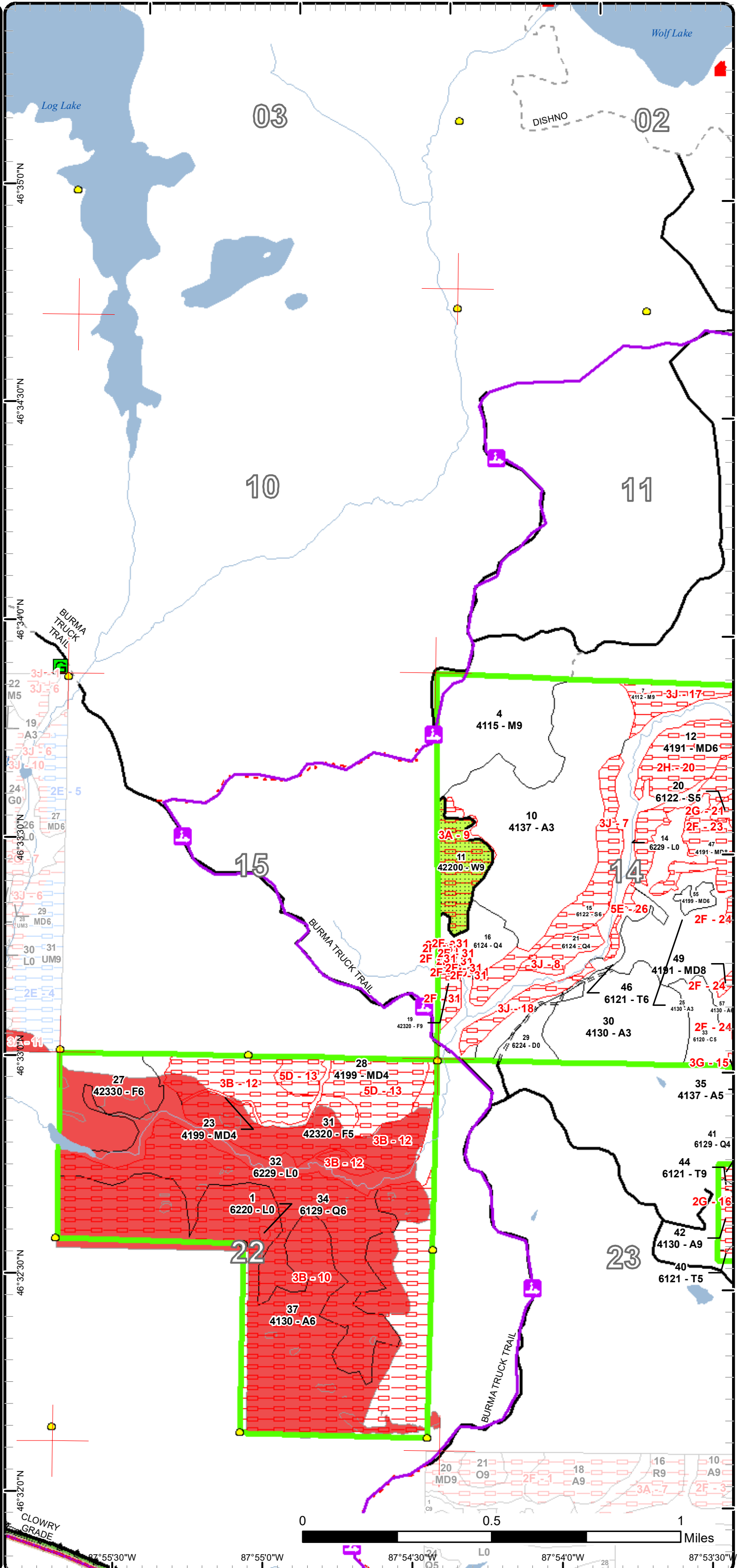


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- Unavailable
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- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- Trail - Trail Corridor
- Possible Type 2 Old Growth



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	83	0	168	0	0	0	0	7	0	29	210	0	0	0	0	0	0	496
Cedar	0	0	0	0	0	0	0	0	0	0	25	0	2	0	0	0	0	0	27
Lowland Conifers	0	0	0	15	0	0	0	0	0	0	48	12	88	9	0	0	0	0	172
Lowland Shrub	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	37	0	27	31	0	0	0	0	0	94
Marsh	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Mixed Upland Deciduous	0	0	0	0	0	0	44	0	4	14	0	119	28	0	0	0	0	0	209
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	78	39	0	0	0	0	0	117
Tamarack	0	0	0	0	0	0	0	0	0	0	25	0	8	0	0	0	0	0	33
Treed Bog	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14
Upland Spruce/Fir	0	0	0	0	0	36	0	0	0	0	83	0	0	0	0	0	0	0	119
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	20
Total	143	83	0	183	0	36	44	0	11	51	224	446	196	9	0	0	37	0	1461



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 212
Total Compartment Acres: 1,460

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



S
t
a
n
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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

Total Treatment
Acreage Proposed: 0

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 212
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions											
		With Condition				2E	4A	5C	2F	2G	2H	3A	3B	3G	3J	5D	5E
496	247	0		249	Aspen				7	12	9	2	204	14	0		1
28	25	0		2	Cedar										2		
171	15	0		156	Lowland Conifers				0	60			88		9		
119	119	0		0	Lowland Shrub				0	0					0		
94	0	0		94	Lowland Spruce/Fir				37	30					27		0
11	11	0		0	Marsh												
209	7	49		153	Mixed Upland Deciduous		5	44	57	2	55				7	32	
116	69	35		12	Northern Hardwood	9		26							12		
33	5	0		28	Tamarack					17					9		2
11	11	0		0	Treed Bog												
17	0	0		17	Upland Conifers							17					
14	14	0		0	Upland Mixed Forest												
120	36	0		83	Upland Spruce/Fir				7				76				
2	2	0		0	Water												
20	0	0		20	White Pine							20					
1,460	562	84		815	Total Forested Acres	9	5	70	108	120	64	39	368	14	66	32	4
	38%	6%		56%	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	Unavailable	2F: Too steep	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments: North edge of stand consists of a steep ridge. Too steep to harvest.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 212
Year of Entry: 2024

3	Available	2E: Road needed	9	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	70	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold for 10 years and manage with stand 13.							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was left last entry as a buffer along Kipple's Creek.							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Left as buffer along Kipple's Creek.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 212
Year of Entry: 2024

9	Unavailable	3A: Conservation Values incompatible with harvest at this time	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3B: Threatened, endangered, and special concern species	292	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: These stands identified as an ERA per Josh Cohen with MNFI.							
11	Unavailable	3A: Conservation Values incompatible with harvest at this time	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand consists mostly of legacy tree sized white pine. Allow the maple within the canopy gaps to mature further and harvest when ready.							
12	Unavailable	3B: Threatened, endangered, and special concern species	76	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Identified as a Dry-Mesic Forest per Josh Cohen with MNFI.							
13	Unavailable	5D: Unproductive Forest Land	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 212
Year of Entry: 2024

15	Unavailable	3G: Other Influence zones - See comments	14	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Access exists but the adjacent landowner has no plans to return to cut their land. This would be the only way these stands could be harvested.</p>							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	40	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: A multitude of reasons for this site condition. Lyme Timber has put in a road and cut a small portion of their property in 2019. They do not plan to return to cut the remainder.</p>							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
19	Unavailable	2F: Too steep	3	2E: Road needed	Unspecified	Unspecified	Unspecified
<p>Comments: A small creek splits this stand and it is very steep down to the creek making the north part of the stand inaccessible. Access is possible from the north via the private property to the west, however the road work needed makes it impracticable.</p>							
20	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	27	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 212
Year of Entry: 2024

21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2F: Too steep	35	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2F: Too steep	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	4A: No Markets Available for these Forest Products	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Too small of a stand to set up by itself. Acreage would amount to less than 5 acres by the time we would exclude some hemlock in the NW corner.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 212
Year of Entry: 2024

28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	6220 - Alder/willow	Nonstocked	0.6	0	Unspecified	No				
2	6120 - Lowland Cedar	Poletimber Well	2.4	110	Unspecified	N/A	Stand is along Wolf Lake. Small stand, mix of black spruce and cedar with some tamarack. Small flowage and very wet ground within the southern part of the stand. Water is coming out of the hardwood hills to the east and flowing into Wolf Lake through this stand.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Northern White Cedar	60	Log/Pole	12	110	Balsam Fir	Low	< 5 feet	Sapling
		Tamarack	18	Pole	8		Black Spruce	Low	< 5 feet	Sapling
		Black Ash	2	Sapling	3		Black Ash	Low	< 5 feet	Sapling
		Black Spruce	20	Pole	8					
3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	13.5	80	81-110	N/A	Access site on Wolf Lake. South east corner of stand is small patch of very large hemlock (30"+). Some large diameter sugar maple exist along the northern boundary of this stand as well.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	43	Log/Pole	10	80	Balsam Fir	Low	5 - 10 feet	Sapling
		Yellow Birch	4	Log	12					
		Paper Birch	40	Log/Pole	10					
		White Spruce	2	Log/Pole	10					
		White Pine	2	XLog/Log	18					
		Sugar Maple	4	Log/Pole	14					
		Balsam Fir	5	Pole	8					
4	4115 - Y.Birch, Hemlock NH	Sawtimber Well	53.7	105	51-80	N/A	Stand harvested in the fall of 2016. TS# 32-108-14. Stand consists of a northern hardwood stand with a considerable amount of hemlock, yellow birch, and upland cedar. Scattered very large white pine. A fair amount of advanced regeneration exists within the stand and should do well now that the stand has been thinned.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Northern White Cedar	10	Log/Pole	12		Sugar Maple	Low	5 - 10 feet	Sapling
		White Pine	2	XLog	20		Balsam Fir	Low	5 - 10 feet	Sapling
		Hemlock	18	XLog	24					
		Sugar Maple	35	Log/Pole/XLog	14	105				
		Red Maple	15	Log/Pole	14					
		Yellow Birch	20	Log	16					
5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.8	100	111-140	N/A	Mixed log-pole stand, predominately red maple. Large amount of dead and down balsam fir. Understory fir is still alive and mixed with advanced red maple.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Hemlock	2	XLog	28		Sugar Maple	Medium	10 - 20 feet	Sapling
		Yellow Birch	5	Log	14		Balsam Fir	Medium	Variable	Sapling
		Northern White Cedar	5	Log	15					
		White Spruce	2	Log	12					
		Red Maple	70	Log/Pole	12	100				
		Sugar Maple	16	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
6	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	27.2	98	81-110	N/A	Stand is mixed black spruce, cedar and tamarack. West and SE corner of stand is smaller diameter and more open. Aged a 3" black spruce and was 150 years old. Black spruce on the east side are between 6-8" and are 80-90 years old. Cedar in central and northeast part of stand is very thick and has both seedling and saplings. Looks like stand was hit with budworm in the past. Witches broom on the black spruce is quite evident. Some portions of the stand are extremely wet. In one location there was pitcher plants growing within the moss. Stream dissects the middle of the stand and flows into stand 8.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		5	Pole	8		Black Spruce		Low	< 5 feet	Sapling	
Black Spruce		40	Pole	8	98	Balsam Fir		Low	< 5 feet	Sapling	
Northern White Cedar		30	Pole/Log/Sap	8		Northern White Cedar		Low	< 5 feet	Sapling	
Tamarack		25	Pole/Sapling	8							
7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.4	110	111-140	N/A	Small stand with somewhat difficult access (tag alder swale to west and private to the north). Small spring creek is on west end of stand. Trace of hemlock, white birch is on south edge of stand on edge of drop off.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		2	Pole/Log	8		Balsam Fir		Low	< 5 feet	Sapling	
Hemlock		2	Log	16		Sugar Maple		Medium	< 5 feet	Sapling	
Red Maple		10	Log/Pole	12							
Sugar Maple		71	Log/Pole	14	110						
Yellow Birch		15	Log	14							
8	6233 - Wet Meadow	Nonstocked	10.8		Unspecified	No	About 1/2 this stand is a pond, the remainder is marsh grass.				
9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.0	100	81-110	N/A	Stand is dominant to red maple of log sized diameter. Quality is poor overall. Understory consists of balsam fir. A small stream exists in the southern portion of the stand which originates in stand 26.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		21	Log/Pole	12		Sugar Maple		Medium	< 5 feet	Sapling	
Red Maple		60	Log/Pole	12	100	Balsam Fir		Medium	10 - 20 feet	Sapling	
Paper Birch		2	Log/Pole	10							
Quaking Aspen		2	Log/Pole	12							
Yellow Birch		5	Log	14							
White Pine		5	XLog	24							
Hemlock		2	XLog	18							
White Spruce		3	Log/Pole	12							
10	4137 - Aspen, Birch	Sapling Well	111.2	22	Immature	N/A	Stand cut via seed tree harvest in 2000, TS #24-94-01. Large diameter white pine scattered throughout the stand.				
Canopy Species		% Cover	Size Class	DBH	Age						
Red Maple		15	Sapling	3							
Paper Birch		20	Sapling	4							
Quaking Aspen		50	Sapling	4	22						
White Pine		5	XLog	24							
Balsam Fir		10	Sapling	2							
11	42200 - Natural White Pine	Sawtimber Well	19.7	360	111-140	N/A	MNFI Ecologist Josh Cohen & Jason Caron visited this stand in 2017. Stand is currently listed as Type 1 Old Growth. Large diameter white pine exists throughout the stand. All balsam that existed as pole size and sapling size is now dead due to the budworm outbreak. What remains in the understory are various ages and diameters of red maple, some pole sized, some sapling size.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		20	Pole	9		Red Maple		Medium	>20 feet	Sapling	
White Pine		80	XLog	30	360						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
12	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	27.1	103	81-110	N/A	Stand is flat on bottom north side with black spruce and then quickly transitions to a fairly steep knob heading south. It is surrounded by Kipple Creek, lowland brush and steep valleys.																																																											
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13	4115 - Y.Birch, Hemlock NH	Sawtimber Well	26.2	110	111-140	N/A	Stand harvested summer of 1997 TS#23-94. Stand was either thinned hard years ago or was sparse to begin with. Average basal area averages around 90 - 100 square feet. The east edge of the stand contains a ridge and along this ridge are mostly super-canopy sized sugar maple, many of which are legacy tree size in both age and diameter. Many of the trees have plated bark and a fair amount of defect. Canopy gaps consist of various age classes of sugar maple. Some in the sapling size class while other gaps have pole sized trees. Some CWD within the stand due to larger trees falling over. I would not consider this stand old growth but there are many legacy trees throughout the stand. Stand contains both high ground and low ground/vernal areas. Rutting that occurred during the last harvest is still evident in some of the low pockets.																																																											
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14	6229 - Mixed lowland shrub	Nonstocked	71.2		Unspecified	No																																																												
15	6122 - Black Spruce	Poletimber Well	26.6	100	Unspecified	N/A	Stand was left as a buffer along Kipple's Creek. Mix of black spruce, tamarack and cedar.																																																											
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16	6124 - Lowland Spruce-Fir	Poletimber Poor	14.7	22	Unspecified	N/A	Portion of stand harvested in 2000 TS# 24-94-01, all trees under 1 stick were left. West side has merchantable timber that wasn't included in the sale.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
17	6122 - Black Spruce	Poletimber Well	36.8	87	Unspecified	N/A	Stand of black spruce that is in poorer condition due to age. Stand does have a couple upland linear sand knobs within it. Numerous seeps exist along the north edge due to a steep ridge. Some areas to the north consist of a rock cliff. The described ridge is not conducive for logging as it is too steep to skid wood up and out of the stand.																																												
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18	429 - Mixed Upland Conifers	Sawtimber Medium	16.8	150	51-80	N/A	Stand consists of super canopy white pine. Diameter ranges from 18" to 30". Most of the white pine fit the legacy tree criteria in both age and diameter. Stem quality is good overall. Stand is growing on a rock knob essentially. The canopy gaps consist of a mix of both red and sugar maple. Balsam fir exists within the understory.																																												
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19	42320 - Upland Spruce	Sawtimber Well	7.4	93	81-110	N/A	Small stand of spruce fir. Stand is in poor condition due to budworm outbreak. A portion of this stand was prepped for a sale during the last YOE but never sold.																																												
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20	6122 - Black Spruce	Poletimber Medium	30.5	110	51-80	N/A	Stand is very wet and sparse.																																												
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21	6124 - Lowland Spruce-Fir	Poletimber Poor	9.0	120	Unspecified	N/A																																													
22	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	28.3	110	81-110	N/A	Stand is difficult to access from the south as there are no roads. Kipple Creek and steep hillside limit access from the north.																																												
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23	4199 - Other Mixed Upland Deciduous	Poletimber Poor	3.7	100	1-50	N/A	Stand was prepped and put out for during the last entry period as Techno Burma - sale went no bid numerous times with no interest. Stand has changed looks considerably due to the budworm outbreak. Dead standing fir and white spruce exist throughout the stand. What remains is poor quality red maple and aspen. Stand will eventually convert to a mix of deciduous and conifer once the budworm outbreak is done.																																						
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24	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	21.1	95	Unspecified	N/A	Stand is a mix of black spruce, tamarack and cedar (along creek edge). Difficult access at this point in time.																																						
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25	4130 - Aspen	Sapling Well	68.4	8	Immature	N/A	Sale was harvested in 2014 by Williams Specialty Woods under contract (32-325-12-01) Burma Country Mix #2. Stand has regenerated back to a mix of aspen and red maple. Some areas are still somewhat sparse but will fill in over time.																																						
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26	500 - Water	Nonstocked	2.4		Unspecified	No	Very unique linear beaver pond. Very picturesque.																																						
27	42330 - Upland Fir	Poletimber Well	36.3	45	Unspecified	N/A	Very difficult access. Stand is a result from the previous budworm outbreak in the 70's. Fir is in poor condition due to the current budworm outbreak.																																						
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28	4199 - Other Mixed Upland Deciduous	Poletimber Poor	31.7	100	1-50	N/A	Stand was prepped and put out for during the last entry period as Techno Burma - sale went no bid numerous times with no interest. Stand has changed looks considerably due to the budworm outbreak. Dead standing fir and white spruce exist throughout the stand. What remains is poor quality red maple and aspen. Stand will eventually convert to a mix of deciduous and conifer once the budworm outbreak is done.																																						
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29	6224 - Treed Bog	Nonstocked	10.6	0	Unspecified	No	Stand borders on being non-forest low density trees. Small diameter black spruce. Looks like an old bog filling in with trees.																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
30	4130 - Aspen	Sapling Well	56.5	22	Unspecified	N/A	Stand cut in 2000 TS#24-94-01. Scattered white and red pine mainly on the west side. Some seeding is occurring along the road and more open areas.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		9	Sapling/Pole	4		Tag Alder		
Quaking Aspen		85	Sapling	4	22	Density		
White Pine		2	XLog	20		Avg. Height		
Red Pine		2	XLog	18		Size		
White Spruce		2	Sapling/Pole	4		Tall Shrub		
31	42320 - Upland Spruce	Poletimber Medium	76.0	97	Unspecified	N/A	Stand was prepped and put out for during the last entry period as Techno Burma - sale went no bid numerous times with no interest. Stand has changed looks considerably due to the budworm outbreak. Dead standing fir and white spruce exist throughout the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		2	XLog/Log	18		Balsam Fir		
Black Spruce		91	Pole	7	97	Density		
Quaking Aspen		5	Pole/Log	10		Avg. Height		
Northern White Cedar		2	Log/Pole	10		Size		
						Tall Shrub		
32	6229 - Mixed lowland shrub	Nonstocked	34.4		Unspecified	No		
33	6120 - Lowland Cedar	Poletimber Medium	25.1	98	Unspecified	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Tamarack		5	Pole/Log	8		Tag Alder		
Black Spruce		30	Pole/Sapling	8		Density		
Northern White Cedar		65	Pole	9	98	Avg. Height		
						Size		
						Tall Shrub		
34	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	87.6	115	Unspecified	N/A	Difficult access to the stand. Very large tamarack, (a few are 22-24 inches on the stump) 8-9 sticks tall. Stand is predominantly lowland soils but there are areas of upland mixed in. Topographic position seems to have caused lowland soil formation, ie mucks, but then there are slight elevation changes where it becomes more upland.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		10	Log/XLog	16		Balsam Fir		
Paper Birch		2	Pole/Log	8		Density		
Quaking Aspen		6	Log/Pole	12		Avg. Height		
Black Spruce		30	Pole	8		Size		
Northern White Cedar		5	Log	10		Tall Shrub		
Balsam Fir		5	Pole	8				
Tamarack		40	Log/Pole	12	115			
Red Maple		2	Pole/Sapling	8				
35	4137 - Aspen, Birch	Poletimber Medium	7.4	96	51-80	N/A	Lyme Timber, LLC recently put a road into this area but does not plan to return to cut anything more. Stand is in poor condition due to age and shallow soil. Mature spruce and fir is dead due to the budworm outbreak.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		15	Pole	8		Balsam Fir		
Paper Birch		35	Log/Pole	10		Density		
Quaking Aspen		50	Log/Pole	12	96	Avg. Height		
						Size		
						Tall Shrub		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
36	4137 - Aspen, Birch	Poletimber Well	6.8	96	Unspecified	N/A	Lyme Timber, LLC established a road in 2019 to cut some of their timber to the north. I emailed a forester with Lyme and they stated they will not return to cut anything more. Stand is in very poor condition due to age and shallow soils.																																																													
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37	4130 - Aspen	Poletimber Well	204.4	100	81-110	N/A	Stand consists of decadent aspen and paper birch in severe decline due to age. Maple, pine, and oak are in good condition. Mature fir white spruce are have died due to budworm. Fir still exists within the understory but is in poorer condition due to budworm. Topography is variable with numerous rock outcrops. Drainages exist within the stand as well. Scattered white pine exist within the stand with a ridge of large diameter white pine within the SE corner of the stand.																																																													
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38	4319 - Mixed Upland Forest	Poletimber Well	13.8	92	51-80	N/A	Lyme Timber, LLC has constructed a road to the west of this stand but they will not return to cut the remainder of their property. This stand is very difficult access due to terrain.																																																													
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39	6220 - Alder/willow	Nonstocked	11.0		Unspecified	No	Riparian corridor. Tag alder slough.																																																													
40	6121 - Tamarack	Poletimber Medium	8.9	95	Unspecified	N/A	Scattered black spruce and tamarack. Stand is wet.																																																													
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41	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	11.7	100	1-50	N/A	Sparse stand that is barely forested. A mix of tamarack, black spruce, and cedar. Tag alder is dense throughout the stand.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
42	4130 - Aspen	Sawtimber Well	5.5	100	Unspecified	N/A	Small stand of aspen-fir on edge of lowland. Part of stand was cut as a timber tresspass ~20 years ago.																																																			
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43	4137 - Aspen, Birch	Poletimber Medium	8.5	98	81-110	N/A	Stand is in poor condition due to age. Cannot harvest due to difficult access and terrain.																																																			
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44	6121 - Tamarack	Sawtimber Well	7.9	110	Unspecified	N/A	Almost a pure tamarack stand. Wet with some surface flow.																																																			
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45	4130 - Aspen	Sawtimber Medium	6.1	95	Unspecified	N/A	High ground surrounded by lowland. Aspen is very old and decadent. Spruce fir has died due to budworm. Scattered log sized white pine and red pine within the stand.																																																			
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46	6121 - Tamarack	Poletimber Well	16.4	97	Unspecified	N/A	Stand of tamarack. Do not manage as it serves as a buffer to the adjacent creek.																																																			
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47	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	35.0	103	81-110	N/A	Stand was split off from stand 25 as area was inoperable and left unharvested.																																																			
48	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	43.7	50	111-140	N/A	Stand varies depending on where you are. The southern and western edge is more dominant to paper birch and is growing on a rocky ridge. Pockets of large diameter cedar, white pine, yellow birch, and hemlock exist. Some lowland areas exist within the stand that hold water in the spring and fall.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
49	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	22.2	103	81-110	N/A	Stand was split off from stand 25 as area was inoperable and left unharvested.
50	6220 - Alder/willow	Nonstocked	1.9	0	Unspecified	No	
55	4199 - Other Mixed Upland Deciduous	Poletimber Well	3.5	70	81-110	N/A	Rocky knob that was not harvested as it was inoperable.
57	4130 - Aspen	Poletimber Well	6.7	70	81-110	N/A	
58	4130 - Aspen	Sapling Medium	14.5	8	Immature	N/A	Sale was harvested in 2014 by Williams Specialty Woods under contract (32-325-12-01) Burma Country Mix #2. Stand has regenerated back to a mix of aspen and red maple.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	90	Sapling	1	8
Red Maple	10	Sapling	1	