



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73020

Entry Year: 2028

Acreage: 1,284

County: Clare

Management Area: High Sand Plains

Stand Examiner: Braden Berridge

Legal Description:

T19N - R03W Section 30T19N - R04W Sections 24, 25 & 36

Identified Planning Goals:

Vegetation management in the Upper Muskegon management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year period will focus on harvesting older jack pine and balancing age class distributions of oak, aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation. Expected trends within this 10-year planning period are the need to manage exotic species (especially Phragmites and glossy buckthorn), the need to continue to manage cover types for a balanced age-class distribution and an expected increase in recreation pressure.

Soil and topography:

The area varies from well drained Grayling sands in the outwash plains to poorly drained mucky Lupton-Markey soils as you enter the Mostetler Creek Floodplain. The terrain varies from nearly level to gently rolling hills to the short steep banks that lead down to the floodplain of Mostetler Creek.

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

The state land in this compartment is spread out over 5 sections, the state and private lands are intermixed resulting in miles of private property lines. The state land occurs in large contiguous blocks. Private holdings are mostly comprised of large (40 acres or greater) forested single holdings with absentee landowners. There are numerous permanent residences scattered through out the entire compartment as well. The town of Dodge City is located directly adjacent to the compartment. The location of this town concentrates use on the state land.

Unique Natural Features:

This area has a variety of rare species that could be or are present including; Secretive Locust, Eastern Box Turtle, Bald Eagle, Osprey, Great Blue Heron, Wood Turtle, Woodland Vole and Blanding's Turtle.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Continue to manage aspen and oak stands to maintain a variety of age classes to enhance deer and grouse habitat.

Watershed and Fisheries Considerations:

Mostetler Creek should be treated as a cold water fishery as it is a designated trout stream from M-61 south and is part of the Tobacco River watershed. Mostetler Creek is in a valley and has a natural buffer of lowland brush, lowland timber types and marsh directly adjacent to its banks the river corridor should be considered sensitive wetland. The headwaters to Mostetler Creek are within State Land within section 24.

Wildlife Habitat Considerations:

Wildlife Habitat Considerations: Compartment #20. Both upland and lowland systems are present, making it suitable for a number of wildlife species. This area is heavily utilized by out-of-County grouse and woodcock hunters and remains a very popular location for archers and firearm deer hunters. Game species likely to be present in this compartment include black bear, bobcat, raccoon, coyote, wild turkey, ruffed grouse and white-tailed deer. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These species include gray catbird, redbellied vireo, white-breasted nuthatch, tufted titmouse, black-capped chickadees, eastern kingbirds and northern flicker. The compartment is easily accessible to hunters via Rogers Road and Mostetler Road.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial development of metallic minerals in this part of the state. The nearest known

active sand/gravel operation occurs less than one mile north, and there appears to be some good potential for sand & gravel within the compartment on the uplands. The nearest oil & gas production, past or present, is nearly two miles away, and there has been no past well drilling or permit activity within the compartment. However, there has been recent leasing activity, and currently all State-owned mineral rights in Sec 24 within the compartment are under lease (but due to expire later this year). The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Access to most of the compartment is good via the county road system and state two tracks that are in place. There are access limitations to State Land in section 24. All the State Land within section 24 (T19N – R4W) is landlocked by private.

Survey Needs:

None needed for current prescribed treatments.

Recreational Facilities and Opportunities:

No official facilities. The area receives moderate hunting pressure most of which is deer hunters. Light fishing pressure occurs on Mostetler Creek. Moderate dispersed camping occurs mainly during the firearm deer hunting season. A private campground is located directly adjacent to the compartment.

Fire Protection:

A potential fire control problem exists due to the heavy rural /urban interface within this compartment.

Additional Compartment Information:

In September of 2015, both Hamilton and Hayes Townships were involved in an Adopt-A-Forest clean-up within the compartment. Volunteers spent a total of 26 hours removing approximately 20 cubic yards of trash, 43 tires, and approximately 1.5 cubic yards of scrap metal from the area.

Currently there is 280 acres of state forest land within section 24 (T19N - R4W) that is land locked by private property. FRD staff is currently exploring access and management options for this 280 acres.

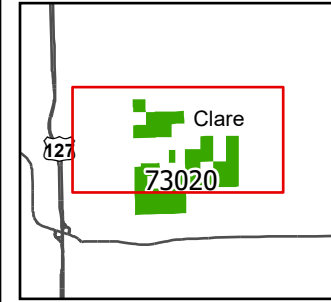
The following reports from the Inventory are attached:

- 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**

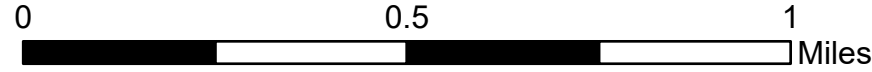
The following information is displayed, where pertinent, on the attached compartment maps:

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

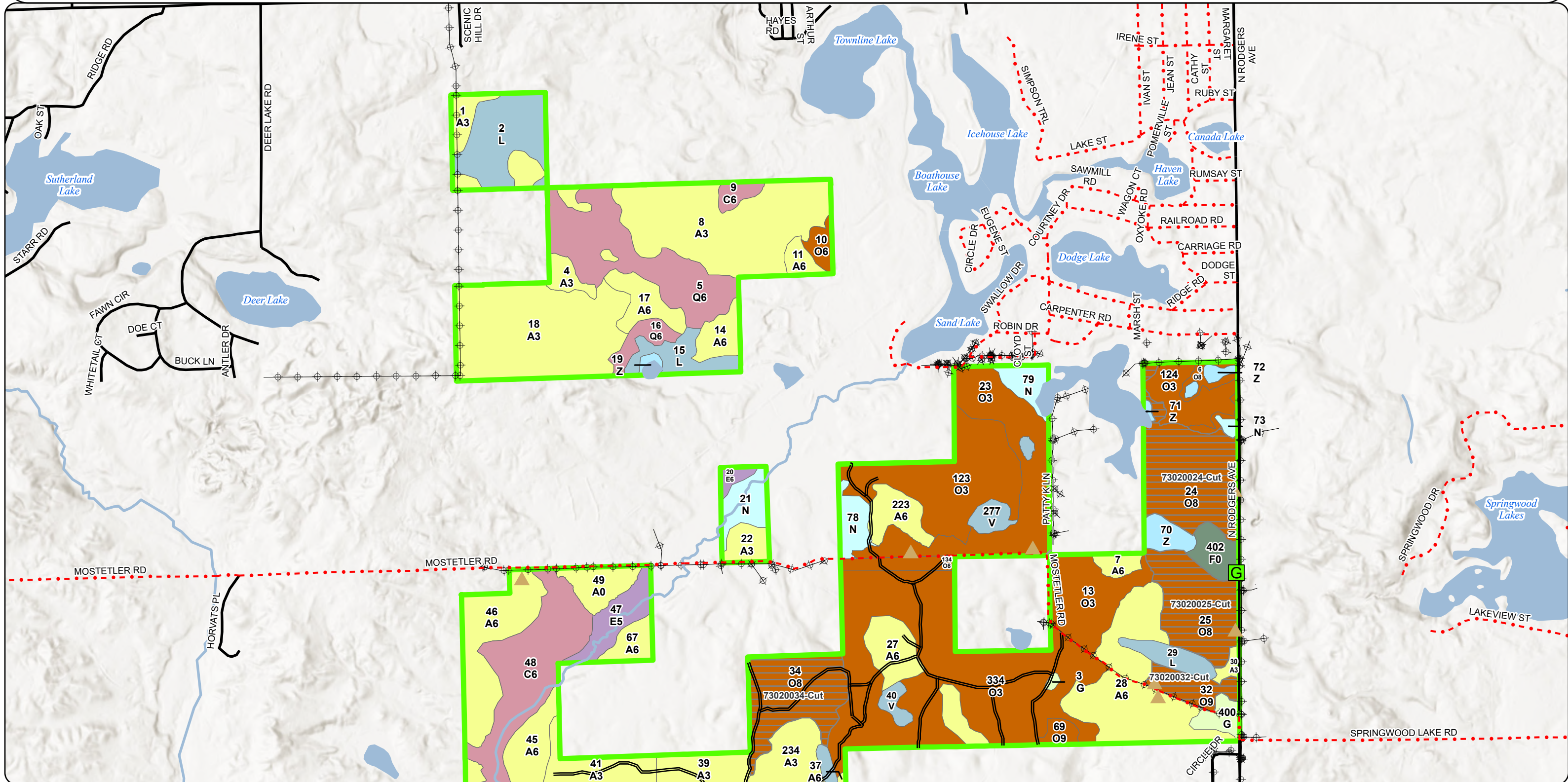
Cover Type & Treatments Map



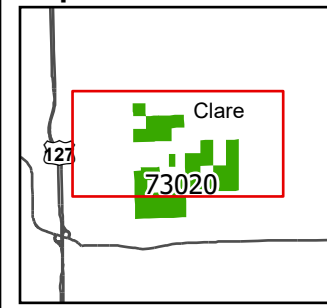
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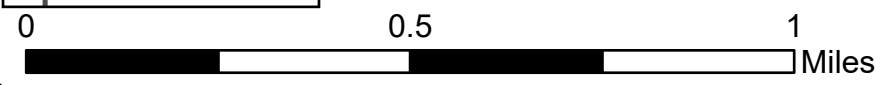
- Berm
- Gate
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Electric
- Compartment Boundary
- Clearcut
- 412 - Oak Types
- 413 - Aspen
- 423 - Other Upland Conifers
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland



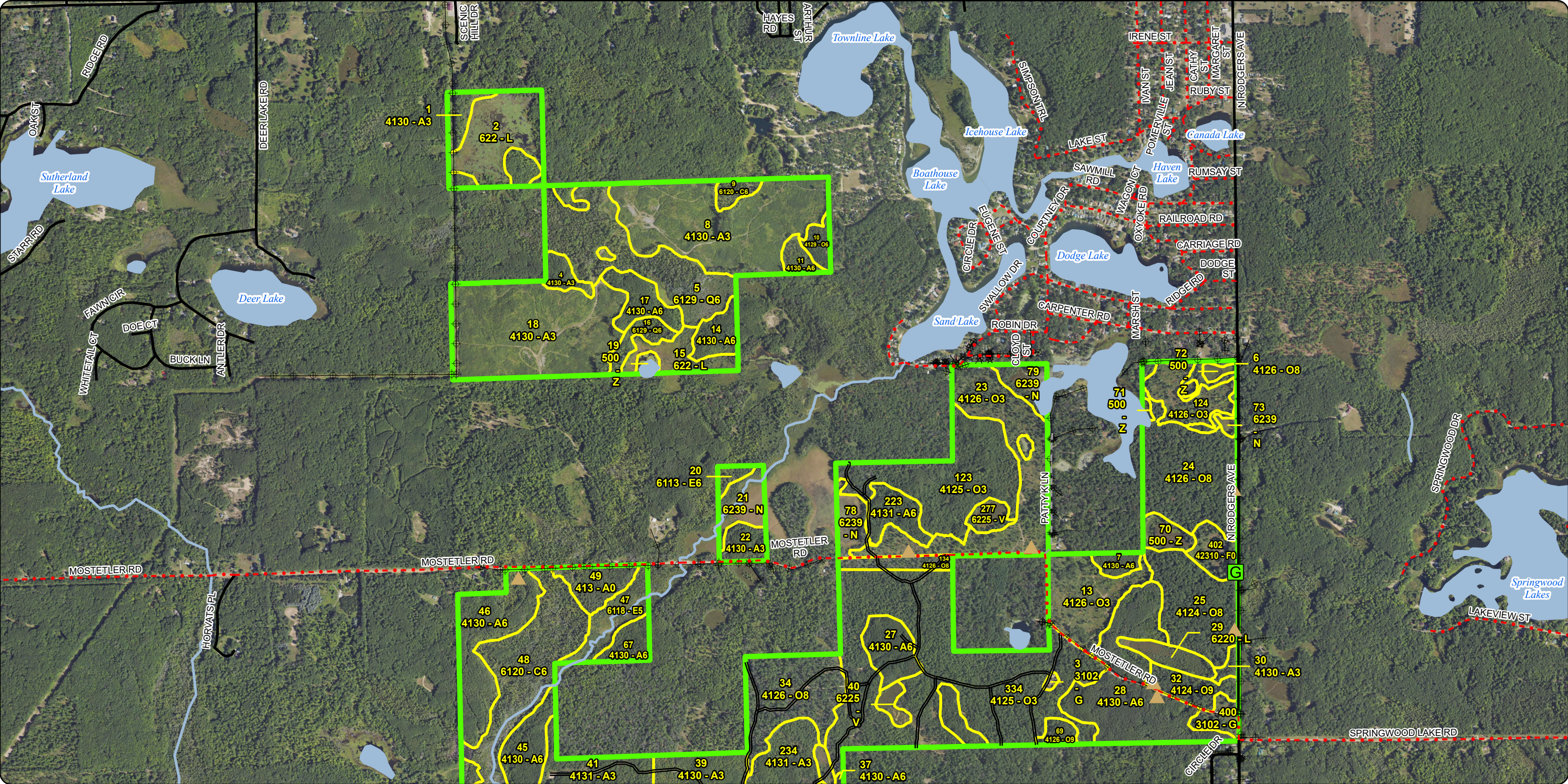
Stand Boundary Map



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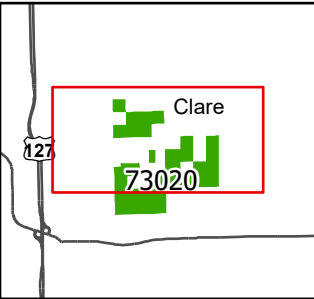
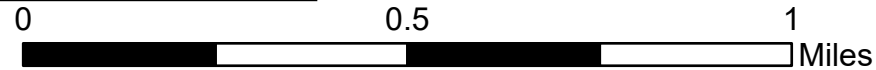


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|---------------------------------------|---------------------------------|---------------------------------|
| Compartment Stand Yellow Outline (PD) | 412 - Oak Types | 412 - Oak Types |
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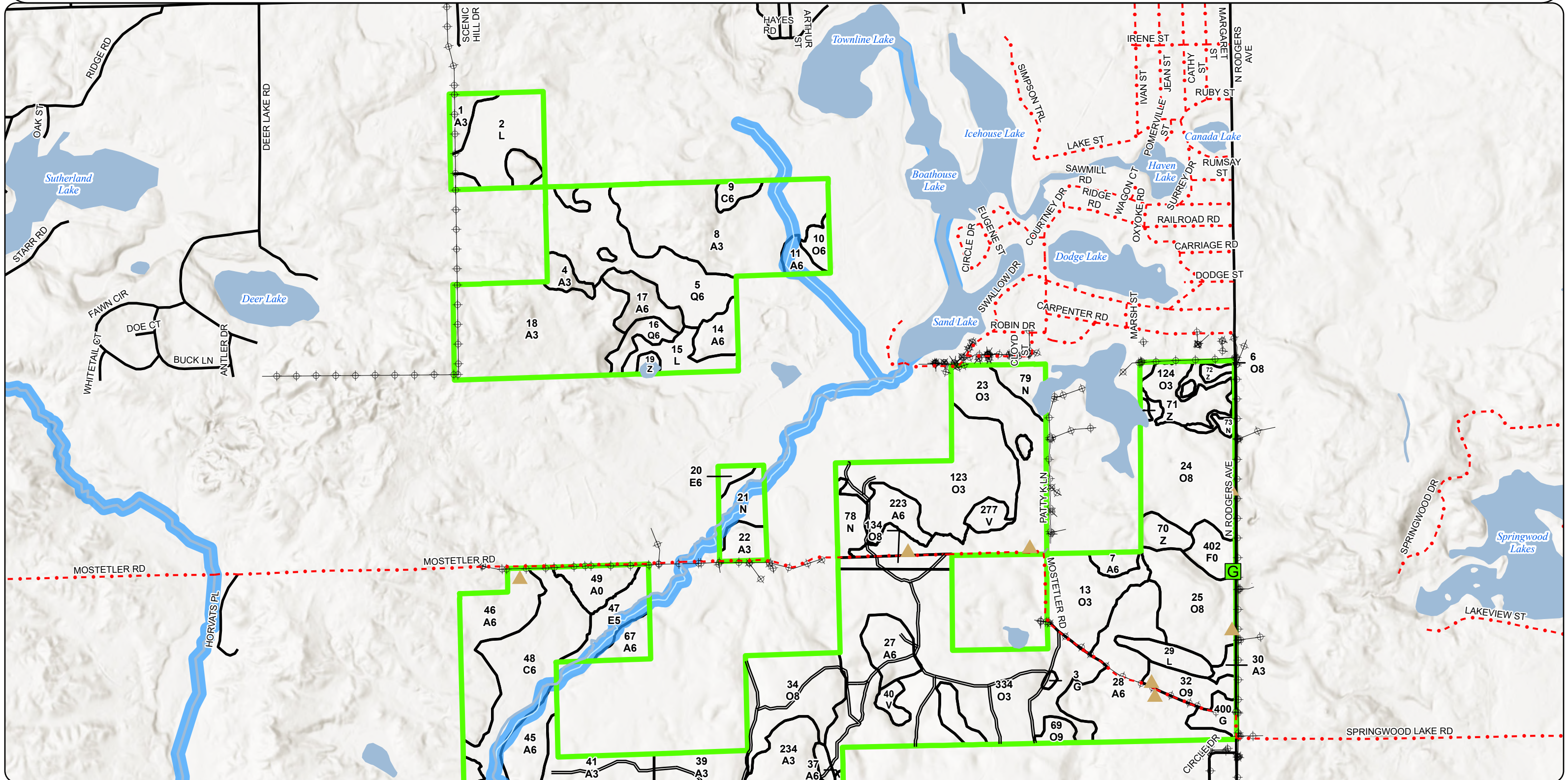


**Special Conservation Areas
& Site Conditions Map**

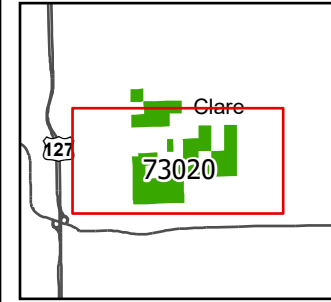
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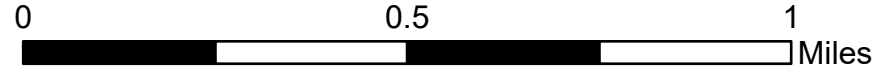
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Stand Boundary Map

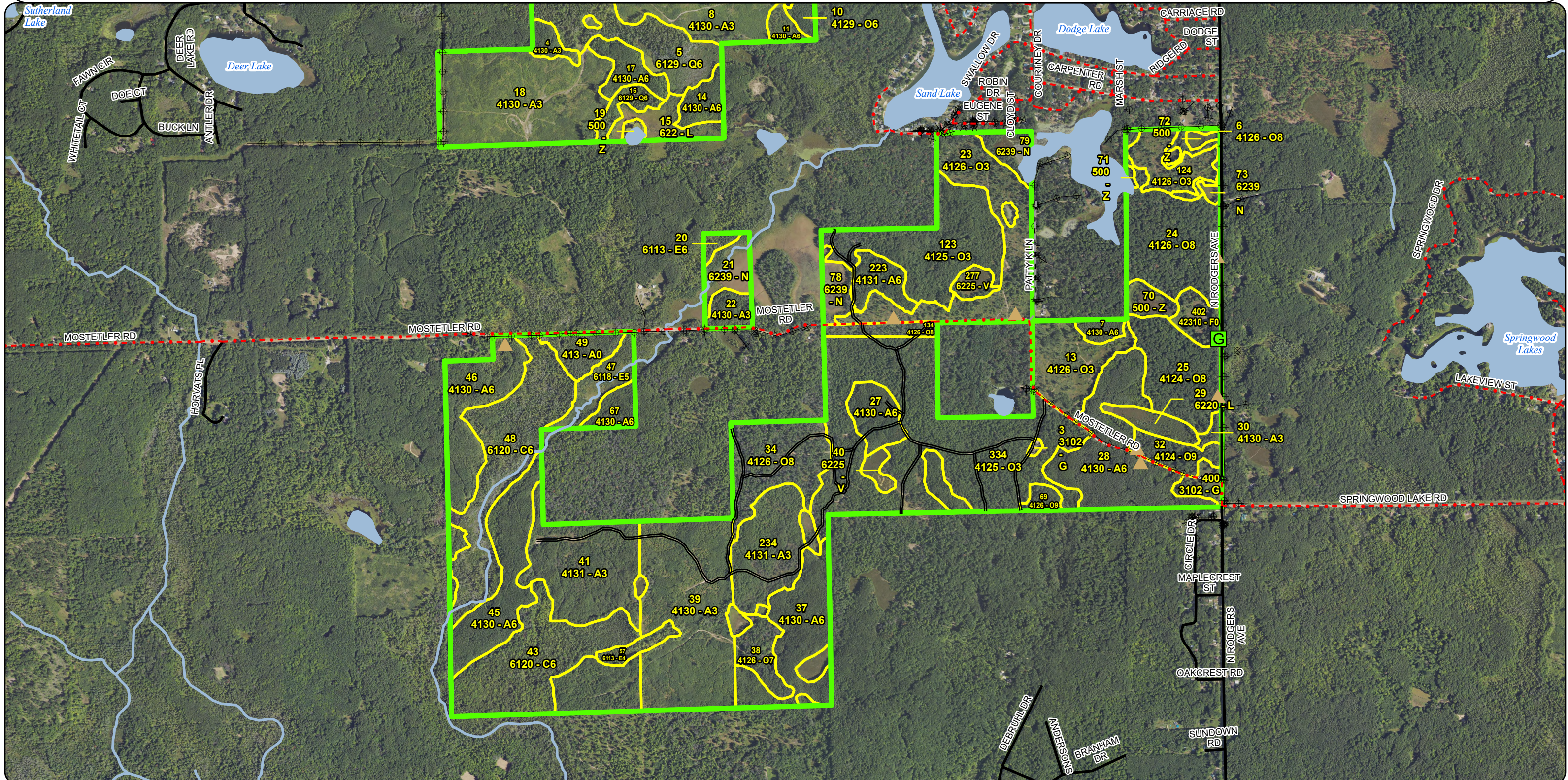


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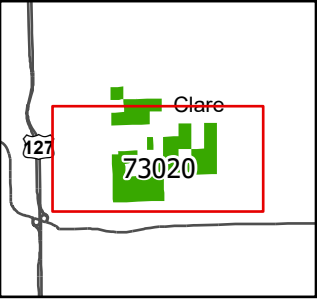
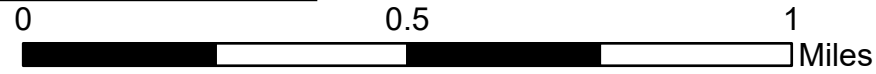
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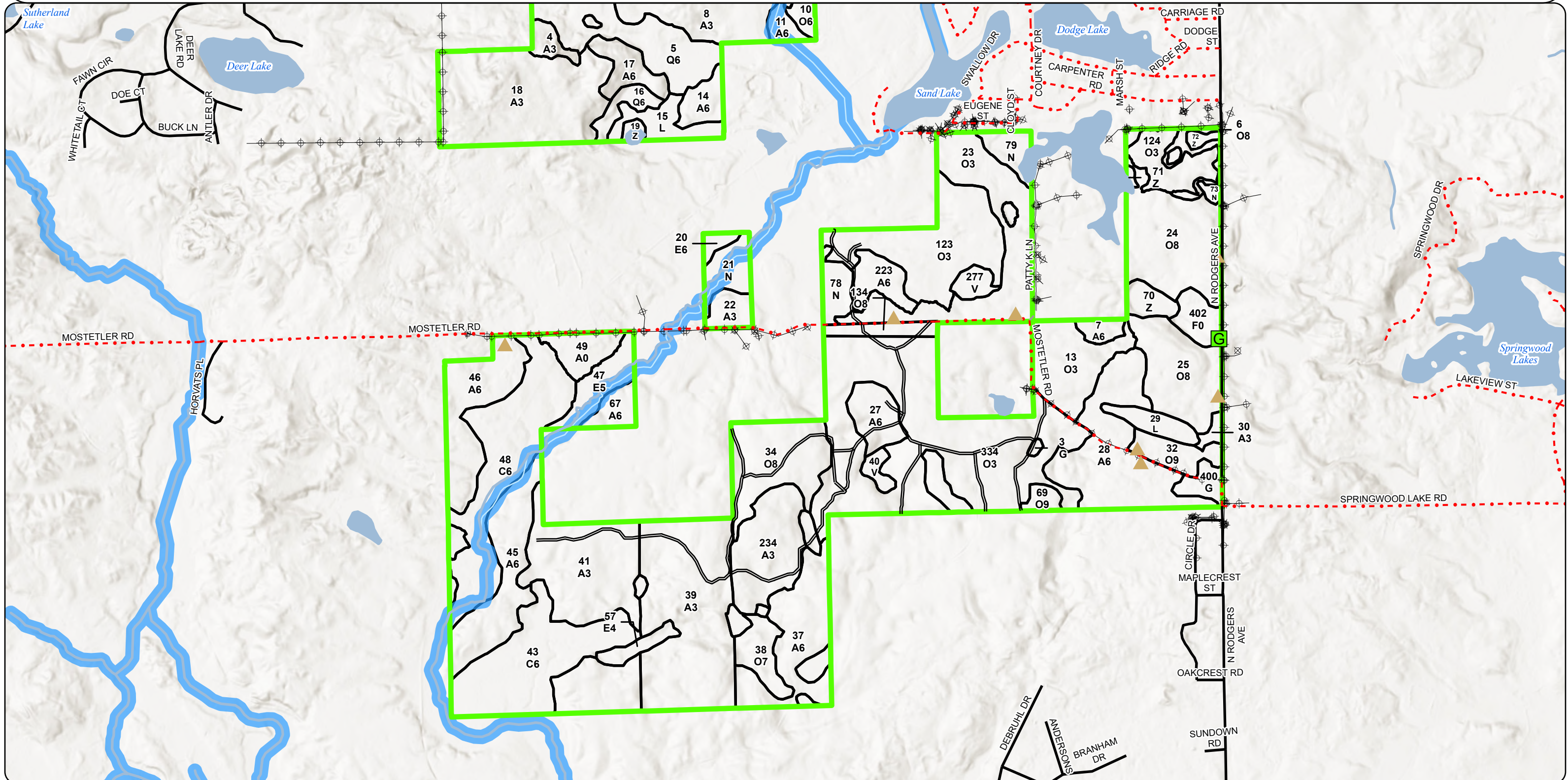


**Special Conservation Areas
& Site Conditions Map**

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Report 1 – Total Acres by Cover Type and Age Class

Gladwin Mgt. Unit

Compartment 20

Year of Entry 2028

Braden Berridge: Examiner



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	11	135	76	117	226	0	0	0	0	0	0	0	0	0	0	0	0	0	565
Bog	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	112	0	0	0	0	112
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	47	0	7	0	0	0	0	54
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	3	18	0	0	0	0	0	0	21
Lowland Shrub	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Marsh	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Oak	0	89	0	171	0	0	5	0	0	0	89	46	0	0	0	0	0	11	411
Upland Spruce/Fir	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Water	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	135	224	76	288	226	0	5	0	0	0	92	111	0	119	0	0	0	11	1287



Report 2 – Treatment Summary

Gladwin Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 20
Total Compartment Acres: 1,284

Commercial Harvest - 238
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Oak		119	0	0	0	0	0	0	0	0	119
	Total	119	0	0	0	0	0	0	0	0	119

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		119	0	0	0	0	0	0	0	0	119
Next Step		0	0	0	0	0	119	0	0	0	119
	Total	119	0	0	0	0	119	0	0	0	238



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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:

24	73020024-Cut	43.7	4126 - White, Black, N. Pin Oak	8	99	51-80	Harvest	Clearcut	4129 - Mixed Oak	Planting Record	No
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Prescription Clear cut. Harvesting everything 2 DBH and greater. Following standard island retention guidelines. focus retention around z type on southern boundary.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A naturally regenerated stand of mixed oak and hardwoods meeting minimum stocking standards.

Regen:

Other Add oak wilt specs.

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

25	73020025-Cut	32.0	4124 - Red with White Oak	8	102	51-80	Harvest	Clearcut	4129 - Mixed Oak	Planting Record	No
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Prescription Clear cut. Harvesting everything 2 DBH and greater. Following standard island retention guidelines.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A naturally regenerated stand of mixed oak and hardwoods meeting minimum stocking standards.

Regen:

Other Add oak wilt spec.

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

32	73020032-Cut	10.3	4124 - Red with White Oak	9	102	51-80	Harvest	Clearcut	4129 - Mixed Oak	Planting Record	No
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Prescription Clear cut. Harvesting everything 2 DBH and greater. Following standard island retention guidelines.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A naturally regenerated stand of mixed oak and hardwoods meeting minimum stocking standards.

Regen:

Other Add oak wilt specs.

Comment:

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
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34	73020034-Cut	33.14126 - White, Black, N. Pin Oak	8	99	1-50	Harvest	Clearcut	4129 - Mixed Oak	Planting Record	No
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Prescription Clear cut. Harvesting everything 2 DBH and greater. Following standard island retention guidelines.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A naturally regenerated stand of mixed oak and hardwoods meeting minimum stocking standards.

Regen:

Other Add oak wilt spec.

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

Total Treatment 119.1
Acreage Proposed:

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Braden Berridge: Examiner

Compartment: 20
 Year of Entry: 2028



Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions				
		With Condition	Not Available		2B	5B	2G	2H	5E
500	447	42	11	Aspen	42			7	4
20	20	0	0	Bog					
112	0	0	112	Cedar			112		
7	7	0	0	Herbaceous Openland					
51	0	0	51	Lowland Conifers			51		
21	0	0	21	Lowland Deciduous			21		
48	48	0	0	Lowland Shrub					
28	28	0	0	Marsh					
411	391	11	9	Oak	5	7			9
9	9	0	0	Upland Spruce/Fir					
12	12	0	0	Water					
1,218	960	53	205	Total Forested Acres	46	7	185	7	13
	79%	4%	17%	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	2G: Too wet (sensitive soils, does not include access issues)	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2B: Unknown if access through adjacent landowner(s) is possible	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Land locked by private. Only access is across private land.							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Braden Berridge: Examiner

Compartment: 20
 Year of Entry: 2028



5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Headwaters area of Mostetler Creek. Very wet soils. Landlocked by private. Only access is across private land. Too wet for commercial harvest.							
7	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	72	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very wet stand with E type inclusions. In the Mostetler Creek floodplain. Heavy beaver activity, large areas of the creek bottom lands are being flooded and the timber (Cedar) is standing dead in these flooded areas. Ash is all dying/dead. No commercial treatment, to wet.							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	56	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very wet stand. No commercial treatment, to wet.							
16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	2B: Unknown if access through adjacent landowner(s) is possible	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments: Habitat Cut 1990. Access for commercial harvest could only be across private land.							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Braden Berridge: Examiner

Compartment: 20
Year of Entry: 2028



17	Unavailable	5E: Long-Term Retention	4	5C: Delay treatment for age/size class diversity or exceptional site quality	3L: Other wildlife concerns	Unspecified	Unspecified
Comments: Small stand of mature oak that was left when surrounding oak stand was clearcut in 2000. Leave stand for diversity in an area that has been managed by clearcutting over the last several rotations.							
19	Available	5B: Maintain for regeneration purposes	7	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: All aspen, red maple and some oak cut in 2002. Shelterwood harvest 2011/2012 Springwood Oaks 73-002-09-01, crown closure was reduced down to 40% - 60%. Residual 40 sq.ft. Stand is a buffer between Mostetler Road and a large clearcut to the south. Very high visual impact with this stand. Hold 10 years, harvesting stand north of road this year of entry.							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Very wet soils. Landlocked by private. Only access is across private land. Too wet for commercial harvest.							
27	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Headwaters area of Mostetler Creek. Very wet soils. Landlocked by private. Only access is across private land. Too wet for commercial harvest.							

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	4130 - Aspen	Sapling Well	12.2	31	Immature	N/A	Clear cut with private access 1995. Access issues, landlocked by private.																																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>50</td> <td>Sapling/Pole</td> <td>3</td> <td>31</td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Sapling/Pole</td> <td>3</td> <td>31</td> </tr> <tr> <td>Quaking Aspen</td> <td>20</td> <td>Sapling/Pole</td> <td>3</td> <td>31</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>10</td> <td>Sapling/Pole</td> <td>3</td> <td>31</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	50	Sapling/Pole	3	31	Red Maple	20	Sapling/Pole	3	31	Quaking Aspen	20	Sapling/Pole	3	31	Black/Red (Hybrid) Oak	10	Sapling/Pole	3	31	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Deciduous Shrubs</td> <td>Low</td> <td>5 - 10 feet</td> <td>5 - 10 feet</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Deciduous Shrubs	Low	5 - 10 feet	5 - 10 feet																													
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2	622 - Lowland Shrub	None	28.1			No	Landlocked by private.																																																										
3	3102 - Grass	None	0.8			No	Sandy/grass bowl.																																																										
4	4130 - Aspen	Sapling Well	7.1	31	Immature	N/A	Clearcut with private access 1995. Access issues, landlocked by private.																																																										
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5	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	46.7	105	111-140	N/A	Dense mixed conifer / hardwood swamp. Headwaters area of Mostetler Creek. Stand varies from areas of pure conifers to conifer / hardwood pockets and areas of L understory. Very wet soils. Landlocked by private.																																																										
6	4126 - White, Black, N. Pin Oak	Sawtimber Medium	5.7	99	1-50	N/A	Retention left during Pramalot Oak 73-007-19 harvest.																																																										
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7	4130 - Aspen	Poletimber Well	4.2	35	81-110	N/A	Growth is coming along nicely. Clearcut 1990. A few scattered low wet pockets however, stand is mostly upland.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	4130 - Aspen	Sapling Well	67.3	7	Immature	N/A	Clearcut 2019 Mostellar Aspen 73-002-18. Access was across private land to the south. And portable bridge. Appears to be fully stocked via imagery.
	Canopy Species	% Cover	Size Class	DBH	Age		
	Bigtooth Aspen	100	Sapling	1	7		
9	6120 - Lowland Cedar	Poletimber Well	4.1	120	111-140	N/A	Landlocked by private.
10	4129 - Mixed Oak	Poletimber Well	4.6	55	1-50	N/A	Clearcut 1971. Mix of oak, red maple and cherry. Landlocked by private. Accepted Gallagher's data.
11	4130 - Aspen	Poletimber Well	4.3	36	Unspecified	N/A	Habitat cut 1990. Wet site A3/L. Landlocked by private.
13	4126 - White, Black, N. Pin Oak	Sapling Well	26.3	6	Immature	N/A	Oak is regenerating abundantly, with small pockets of aspen and red maple, and traces of white pine mixed throughout the stand. Cut in Fall of 2020 under Pramalot Oak 73-007-19 overstory removal. Access roads have been closed and southern ridge with illegal ORV use has been slashed & stumped. Partial harvest 2002, all maple, aspen and marked oak cut. Shelterwood harvest 2012, 40 sq.ft. oak saw logs left. Fully stocked oak understory is in place with pockets of red maple and aspen regen as well. Understory is dominated by oak saplings and stump sprouts. Understory is the result of past partial harvests.
	Canopy Species	% Cover	Size Class	DBH	Age		
	Red Maple	5	Sapling/Pole	3			
	White Oak	30	Sapling	1	6		
	Bigtooth Aspen	20	Sapling/Pole	4			
	Black/Red (Hybrid) Oak	40	Sapling	1	6		
White Pine	5	Pole/Sapling	5				
14	4130 - Aspen	Poletimber Well	8.3	36	Unspecified	N/A	Habitat cut 1990. Land locked by private. Only access is across private land.
15	622 - Lowland Shrub	None	11.6			No	Beaver flooding within Mostetter Creek floodplain. Landlocked by private. 1/26- Tweedale- Updated Gallagher's data from previous inventory cycle.
16	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	6.6	120	141-170	N/A	Landlocked by private. 1/26- Tweedale- Updated Gallagher's data from previous inventory cycle.
17	4130 - Aspen	Poletimber Well	11.0	35	Unspecified	N/A	Clearcut 1991. Landlocked by private. 1/26- Tweedale- Remote called- updated Gallagher's data.
	Canopy Species	% Cover	Size Class	DBH	Age		
	Bigtooth Aspen	40	Sapling/Pole	4	35		
	Quaking Aspen	40	Pole/Sapling	5	35		
	Red Maple	15	Sapling/Pole	4	35		
	Black/Red (Hybrid) Oak	5	Sapling/Pole	4	35		
Sub-Canopy Species	Density	Avg. Height	Size				
Bigtooth Aspen	Full	Variable	Variable				
Red Maple	Low	Variable	Variable				
Deciduous Shrubs	Low	5 - 10 feet	5 - 10 feet				
18	4130 - Aspen	Sapling Well	67.5	7	Immature	N/A	Clearcut 2019 Mostellar Aspen 73-002-18. Access was across private land to the south. Landlocked by private. 1/26- Tweedale- Updated Gallagher's data from previous inventory cycle.
	Canopy Species	% Cover	Size Class	DBH	Age		
	Bigtooth Aspen	100	Sapling	1	7		
19	500 - Water	None	1.9			No	Beaver pond. Landlocked by private. 1/26- Tweedale- Updated Gallagher's data from previous inventory cycle.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
20	6113 - Lowland Maple	Poletimber Well	2.8	99	51-80	N/A	Very wet mucky stand. In floodplain of Mostetler Creek. Landlocked by Mostetler Creek and private.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		75	Pole/Sap/Log	9	99	Balsam Fir	Medium	Variable	Variable
Balsam Fir		20	Pole/Sapling	6		Red Maple	Low	Variable	Variable
White Pine		5	Pole	8		Black Ash	Low	Variable	Variable
						Deciduous Shrubs	Medium	5 - 10 feet	5 - 10 feet
						Tag Alder	Low	5 - 10 feet	5 - 10 feet
21	6239 - Mixed Emergent Wetland	None	10.2			No	Mostetler creek bi-sects stand. Within the creek floodplain.		
22	4130 - Aspen	Sapling Well	7.0	26	Immature	N/A	Aspen is growing nicely Clearcut 2000. Very nice aspen regen.		
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		60	Sapling/Pole	4	26				
Quaking Aspen		15	Sapling/Pole	4	26				
Black/Red (Hybrid) Oak		10	Sapling	4	26				
Red Maple		10	Sapling	4	26				
Paper Birch		5	Sapling	4	26				
23	4126 - White, Black, N. Pin Oak	Sapling Well	47.7	6	Immature	N/A	The stand underwent a shelterwood harvest in 2011–2012 (Springwood Oaks 73-002-09-01) followed by an overstory removal in fall 2020 under the Pramalot Oak sale (73-007-19). Oak regeneration is coming in well, with most saplings exceeding 6 feet in height. A mixed hardwood regeneration component is present. Several remaining overstory trees are exhibiting age-related mortality. The stand has a very high visual impact due to recent harvest activity and low residual basal area (approximately 39 sq. ft.).		
Canopy Species		% Cover	Size Class	DBH	Age				
White Oak		45	Sapling	2	6				
Black/Red (Hybrid) Oak		45	Sapling	2	6				
Red Maple		5	Sapling	2	6				
Bigtooth Aspen		5	Sapling	2	6				
24	4126 - White, Black, N. Pin Oak	Sawtimber Medium	43.7	99	51-80	N/A	The stand is dominated by decent-quality oak with scattered mature red pine and deteriorating aspen. Aspen decline is contributing to increased snag development, while mixed hardwood regeneration continues to establish well across the stand. A semi-steep bank is present above the Z-type area at the south end of the stand where mature red pine and aspen is also present. One potential trespass issue has been identified in the northwest portion of the stand. Shelterwood harvest 2011/2012 Springwood Oaks 73-002-09-01. Residual 60 sq.ft.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak		30	Log	17	99	Deciduous Shrubs	Low	5 - 10 feet	5 - 10 feet
Red Oak		20	Log	17		White Oak	Low	Variable	Variable
White Oak		25	Log	17	99	Black/Red (Hybrid) Oak	Medium	Variable	Variable
Red Maple		10	Pole	8		Bigtooth Aspen	Low	Variable	Variable
Red Pine		10	Log	16		Red Oak	Low	Variable	Variable
Bigtooth Aspen		5	Log/Pole	12		Red Maple	High	Variable	Variable



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
25	4124 - Red with White Oak	Sawtimber Medium	32.0	102	51-80	N/A	Mixed hardwood regeneration continues to come in well with shelterwood still in place. Selection harvest 2011/2012 Springwood Oaks 73-002-09-01. Residual 60 sq.ft. Semi steep bank at north end of stand above Z type. Good quality oak. A mix of hardwood regeneration is in place.																																																											
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28	4130 - Aspen	Poletimber Well	50.0	35	81-110	N/A	The stand was clearcut in 1990 and is exhibiting good growth. It should be reassessed during the next inventory cycle to determine the need for potential treatment. The stand is primarily upland in character, with only minor, scattered low and wet inclusions.																																																											
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29	6220 - Alder/Willow	None	7.9			No	Tag alder.																																																											
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30	4130 - Aspen	Sapling Well	2.3	26	Immature	N/A	Clearcut 2000.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
32	4124 - Red with White Oak	Sawtimber Well	10.3	102	51-80	N/A	Oak has established itself well in the understory. Selection harvest 2011/2012 Springwood Oaks 73-002-09-01. Residual 70 sq.ft. Decent quality red oak. Fully stocked understory, red maple stump sprouts 10' - 15' tall, oak stump sprouts and seed source 3' - 10' tall. Hold and evaluate next rotation allowing the oak understory to become more established.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		60	Log/XLog	13	102	Deciduous Shrubs		Low	5 - 10 feet	5 - 10 feet	
White Oak		20	Log/XLog	13	102	Red Maple		High	10 - 20 feet	10 - 20 feet	
Red Maple		15	Pole/Log	9		White Oak		Low	Variable	Variable	
Bigtooth Aspen		5	Log/Pole	10		Bigtooth Aspen		Low	Variable	Variable	
						Red Oak		High	Variable	Variable	
34	4126 - White, Black, N. Pin Oak	Sawtimber Medium	33.1	99	1-50	N/A	A shelterwood harvest was conducted in 2011–2012 in the Springwood Oaks stand (73-002-09-01), with residual basal area marked down to approximately 46 sq. ft. Some shelterwood oaks have since begun to die off. Natural oak regeneration continues to grow and dominate the understory, primarily as oak seedlings and stump sprouts. Aspen and red maple regeneration occurs only in small, isolated pockets. The O3 understory layer (4–10 ft tall) is present but less established than in comparable oak stands.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		60	Log/Pole	12	99	Deciduous Shrubs		Low	5 - 10 feet	5 - 10 feet	
White Oak		20	Log	12	99	Black/Red (Hybrid) Oak		High	5 - 10 feet	5 - 10 feet	
Red Maple		10	Log/Pole	10		Red Maple		Trace	Variable	Variable	
Quaking Aspen		10	Log/Pole	10		Quaking Aspen		Trace	Variable	Variable	
						White Oak		Low	Variable	Variable	
37	4130 - Aspen	Poletimber Well	35.0	35	81-110	N/A	Clearcut 1991. Moving along nice.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		50	Pole/Sapling	6	35	Deciduous Shrubs		Low	5 - 10 feet	5 - 10 feet	
Quaking Aspen		30	Pole/Sapling	6	35	Red Maple		Medium	Variable	Variable	
Red Maple		15	Sapling/Pole	4	35	Black/Red (Hybrid) Oak		Low	Variable	Variable	
Black/Red (Hybrid) Oak		5	Sapling/Pole	4	35	Bigtooth Aspen		Full	Variable	Variable	
38	4126 - White, Black, N. Pin Oak	Sawtimber Poor	11.4	102	1-50	N/A	The overstory remains semi-open with scattered mature oak, aspen, and red maple. Natural mortality, primarily of aspen and some oak, has increased areas of open canopy. The stand is filling in with O3/O4 regeneration and should be managed primarily for understory development and wildlife habitat. Previously coded as U, the stand could be reclassified to reflect its understory condition. Active management is not recommended at this time to maintain structural diversity and wildlife values.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		60	Log	12	102	Black/Red (Hybrid) Oak		High	Variable	Variable	
White Oak		20	Log	12	102	Bigtooth Aspen		Low	Variable	Variable	
Bigtooth Aspen		10	Pole/Log	8		Deciduous Shrubs		Medium	Variable	Variable	
Red Maple		10	Pole/Log	8		Red Maple		Low	Variable	Variable	
39	4130 - Aspen	Sapling Well	75.5	13	Immature	N/A	The stand was final harvested in 2013, with uncut islands left in place, including the last remaining 80 aspen (Stand 73-017-09-01). Regeneration is progressing well, with all species averaging approximately 3 inches DBH. The area consists of rolling hills and valleys. Although previously listed as an undivided interest, LOTS review indicates the state has full ownership, with varying tax status.				
Canopy Species		% Cover	Size Class	DBH	Age						
Bigtooth Aspen		70	Sapling	3	13						
Red Maple		20	Sapling	3	13						
Red Oak		10	Sapling	3	13						
40	6225 - Bog	None	13.7			No	Several small non contiguous blueberry leather leaf bogs.				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
41	4131 - Aspen, Oak	Sapling Well	65.7	24	Immature	N/A	Clearcut 2002. Nice mix of natural regeneration. A3/A3-O3-Mr2. stand is growing slowly.																																																											
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43	6120 - Lowland Cedar	Poletimber Well	50.8	120	141-170	N/A	Very wet stand. Variable stand, pockets of mixed hardwood swamp mainly around edges. No commercial treatment, to wet.																																																											
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45	4130 - Aspen	Poletimber Well	34.6	35	81-110	N/A	Large portions of the stand at or approaching log size. Clearcut 1991. Moving along nice. Some beaver activity along creek.																																																											
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46	4130 - Aspen	Poletimber Well	34.3	35	Unspecified	N/A	DBH varies widely with pockets of all log sized trees and other pockets of sapling size trees Clearcut 1991. Moving along nice.																																																											
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47	6118 - Lowland Deciduous with Cedar	Poletimber Medium	13.0	105	51-80	N/A	Stand has heavy amount down dead ash. Red maple and cedar seem to be the more prevalent species. The ground continues to be too wet for treatment. Very wet stand with cedar inclusions and pockets of dead standing trees. In the Mostetler Creek floodplain. Beaver activity. Ash is all dying/dead. No commercial treatment, to wet.																																																											
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48	6120 - Lowland Cedar	Poletimber Well	57.3	120	141-170	N/A	Very wet stand with E type inclusions. In the Mostetler Creek floodplain. Heavy beaver activity, large areas of the creek bottom lands are being flooded and the timber (Cedar) is standing dead in these flooded areas. Ash is all dying/dead. No commercial treatment, to wet. Old railroad grade within stand running north and south.																																																			
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49	413 - Aspen	Unspecified	10.7	3	1-50		Oak left during clear cut is continuing to die off. Aspen saplings currently dominate the stand. Clearcut in Fall of 2023 under Pramalat Oak 73-007-19. Oak left during harvest is either dead or dying. Clearcut 1971.																																																			
57	6113 - Lowland Maple	Poletimber Poor	5.4	101	1-50	N/A	Very wet stand. Standing water, lowland brush, bogs. No commercial harvest possible, to wet.																																																			
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67	4130 - Aspen	Poletimber Well	7.1	36	1-50	N/A	Habitat Cut 1990. Access for commercial harvest could only be across private land.																																																			
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69	4126 - White, Black, N. Pin Oak	Sawtimber Well	3.7	102	81-110	N/A	Small stand of mature oak that was left when surrounding oak stand was clearcut in 2000. Leave stand for diversity in an area that has been managed by clearcutting over the last several rotations.																																																			
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70	500 - Water	None	6.3			No																																																				
71	500 - Water	None	0.8			No	Part of a bigger water body on private.																																																			
72	500 - Water	None	2.6			No																																																				
73	6239 - Mixed Emergent Wetland	None	1.4			No																																																				



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78	6239 - Mixed Emergent Wetland	None	8.1			No	Cattails, reed grass, marsh grass & standing water.																																							
79	6239 - Mixed Emergent Wetland	None	8.0			No	Cattails, marsh grass & water. Part of a lake on private.																																							
123	4125 - Black, N. Pin Oak	Sapling Well	48.3	24	Immature	N/A	Clearcut in 2002. Patty Cake 73-019-00-02. Nice mix of natural regeneration O3/O3-A1-Mr1. Small inclusion of O9 that was left uncut in 2002 located at very northwest corner of stand.																																							
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124	4126 - White, Black, N. Pin Oak	Sapling Well	15.0	6	Immature	N/A	Cut in Fall of 2020 under Pramalot Oak 73-007-19 overstory removal. Shelterwood harvest 2011/2012 Springwood Oaks 73-002-09-01. Residual 42 sq.ft. (All maple and aspen removed in 2002).																																							
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134	4126 - White, Black, N. Pin Oak	Sawtimber Medium	6.7	99	1-50	N/A	Large amounts of oak in this stand are dead or dying. Visual impact protection of harvest to the south is no longer a factor as it has grown in. All aspen, red maple and some oak cut in 2002. Shelterwood harvest 2011/2012 Springwood Oaks 73-002-09-01, crown closure was reduced down to 40% - 60%. Residual 40 sq.ft. Stand is a buffer between Mostetler Road and a large clearcut to the south. Very high visual impact with this stand. Hold 10 years, harvesting stand north of road this year of entry.																																							
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223	4131 - Aspen, Oak	Poletimber Well	10.9	26	Immature	N/A	The stand was clearcut in 2000. Aspen growth is progressing well, with much of the stand now at or approaching pole size. The stand supports a good mix of natural regeneration, coded A3/A3-O1-W1, and includes a narrow O6 buffer that was left uncut along the N-type area.																																							
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234	4131 - Aspen, Oak	Sapling Well	31.2	24	Immature	N/A	The stand was clearcut in 2002. Regeneration is continuing but remains slow overall, with much of the stand still in the sapling size class. Aspen regeneration is spotty, and these areas are gradually filling in with oak and red maple.																																							
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277	6225 - Bog	None	6.1			No	Blueberry leather leaf bog.																																			
334	4125 - Black, N. Pin Oak	Sapling Well	122.7	24	Immature	N/A	The stand was clearcut in 2002, with all oak less than 6 inches DBH retained. A heavy amount of natural regeneration is present throughout the stand, consisting of a decent species mix; however, regeneration is growing very slowly and overall quality is poor. The stand currently supports O3/O3-A1-Mr1 conditions.																																			
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White Pine	5	Sapling	3	24																																						
Bigtooth Aspen	5	Sapling	3	24																																						
400	3102 - Grass	None	5.9			No	Continues to fill in with hardwoods on perimeter. Starting to fill in with hardwood.																																			
402	42310 - Planted Spruce	Unspecified	8.9	19	Unspecified		Old Hamilton twp. transfer station. Planted to spruce 2009 - FTP C73-840. Scattered pockets of mature trees.																																			
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