



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73105

Entry Year 2024

Acreage: 2,824

County: Midland

Management Area: Midland-Isabella

Stand Examiner: Scott Shooltz

Legal Description:

T15N, R01W, Sections 2, 3, 4, 5, 8, 9, 10 and 11.

Identified Planning Goals:

Vegetation management will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character; threatened, endangered and special concern species; and provide for forest-based recreational uses.

Goals are consistent with direction outlined in the Midland-Isabella management area regional plan. Timber management for this 10-year planning period will focus on balancing the age-class distributions for aspen and oak. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife related recreation opportunity. Expected trends in this 10-year planning period will be the continued need to address illegal off-road vehicle use and trash dumping.

Soil and topography:

The terrain in the compartment is flat with minimal topographical relief, except along Black Creek and Mud Creek. These creeks have steep banks which border the floodplain. Black Creek flows directly into the Tittabawassee River just to the east of the compartment. Mud Creek flows into Salt Creek south of US-10. The soils in the compartment are Pipestone sand, Wixom sand, and Kingsville fine sand on the level areas which are broken up with low ridges of Covert sand, and the wet depressions of Kinross mucky sand and Adrian muck.

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

State ownership is mostly contiguous with in the compartment boundary. This ownership is part of a larger block of state owned land that goes from US-10 to the northern boundary line of Midland County. Development around the compartment is made up of seasonal homes along Sanford Lake, sub-divisions, mobile home parks, recreational properties, and US-10 to the south. Many sand barrow pits are located in the south of the compartment. These were created during construction of US-10.

Unique Natural Features:

Records of wood turtles in the compartment and to the NW and SW. Three-awned grass located to the south of the compartment.

Archeological, Historical, and Cultural Features:

There are several known archeological occurrences within the compartment. They are located in sections 2, 8, 10 & 11 of T 15N R 1W. Management activities will avoid disturbance of these sites.

Special Management Designations or Considerations:

Larger portions of the compartment were purchased with State Game Funds and other federal funds which have management requirements. Timber, wildlife, and recreation will be managed to meet these requirements.

Watershed and Fisheries Considerations:

The compartment has three creeks flowing through that have sand bottoms. Two in the western portion of the compartment flow into the Little Salt River and eventually into the Chippewa River just before it meets the Tittabawassee River. The third creek (Black Creek) is located in the eastern portion of the compartment and flows into the Tittabawassee River just outside of the compartment. Bluff and Mud Creeks are not high value fisheries. Black Creek within the compartment is a higher value fishery because of its proximity to the Tittabawassee River. All three creeks share concern over sediment load that flows into the Little Salt, Chippewa, and Tittabawassee Rivers. All forest treatments adjacent to these creeks will follow BMP considerations to minimize erosion into waterways. In addition, forest treatments should be used to eliminate illegal ORV use which is the primary man-made cause of sedimentation to these creek within the compartment.

Wildlife Habitat Considerations:

Wildlife value in compartment 105 is high due to diverse habitat types found throughout the area. This compartment has many shrub wetlands dominated by leatherleaf and blueberry as well as uplands with oak and pine. This area has a lot of naturally regenerating pine stand as well as a significant oak regeneration. In high soft mast years, bears are often reported within this compartment. There are several old borrow pits that have been managed in the past but are currently un-

managed sedge/open sand wetland areas. This area is used extensively by deer hunters. Management focus should be to promote oak and other mast producers as well as encourage the habitat diversity in the area.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is just over two miles to the southeast, and potential for sand & gravel development within the compartment appears to be limited. Some limited oil & gas drilling has occurred in the compartment, including a well drilled in 2013 in the southwest, but no successful wells. The small, abandoned Jerome and Sanford oil fields are within one mile of the compartment to the west and southeast, respectively. There has been renewed interest in the Dundee Limestone in recent years in this area, and there may be potential for new wells in the compartment. No known metallic mineral potential exists in this part of the state.

Vehicle Access:

Access is from Burns Rd, Meir Rd and Blakley Rd. Two state forest roads run south from Burns Rd. The western most road is in poor condition. Access to southern portion of the compartment is difficult. Illegal ORV access occurs throughout the compartment and is causing erosion into Mud, Bluff and Black Creeks.

Survey Needs:

No survey needs required for this year of entry.

Recreational Facilities and Opportunities:

Black Creek State Forest Campground occurs in Section 11. There is limited vehicle access to the compartment which attracts dispersed hunting and trail use. Closed access routes, created to manage the forest, are utilized by hunters, hikers, bikers, and and trappers. Many of these are on property purchased with game funds. Recreational trails which do not directly benefit wildlife or recreational hunting are not allowed on lands purchased with game funds.

Fire Protection:

Overall, fire danger in the compartment is moderate. Wildfire size is typically restricted by upland/lowland juxtaposition. However, there have been wildfires in the area the exceeded 50 acres.

Additional Compartment Information:

Illegal mountain bike trail networks crisscross the compartment. An un-recognized group has been establishing and maintaining the trail network without the consent of the DNR. The trail improvements include small bridge and boardwalk installations and brush clearing. This trail system has continually expanded over the decades. Although minimally invasive, this trail network does not align with management goals for State Game Fund purchased lands. In addition, because these trails are not designated, they cannot be protected while management activities are occurring within the compartment.

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:

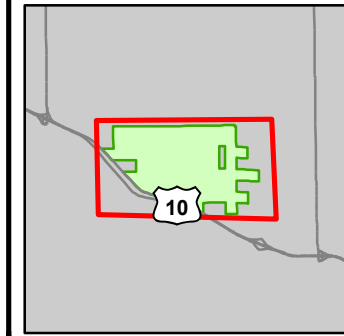
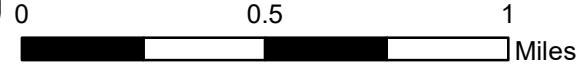
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

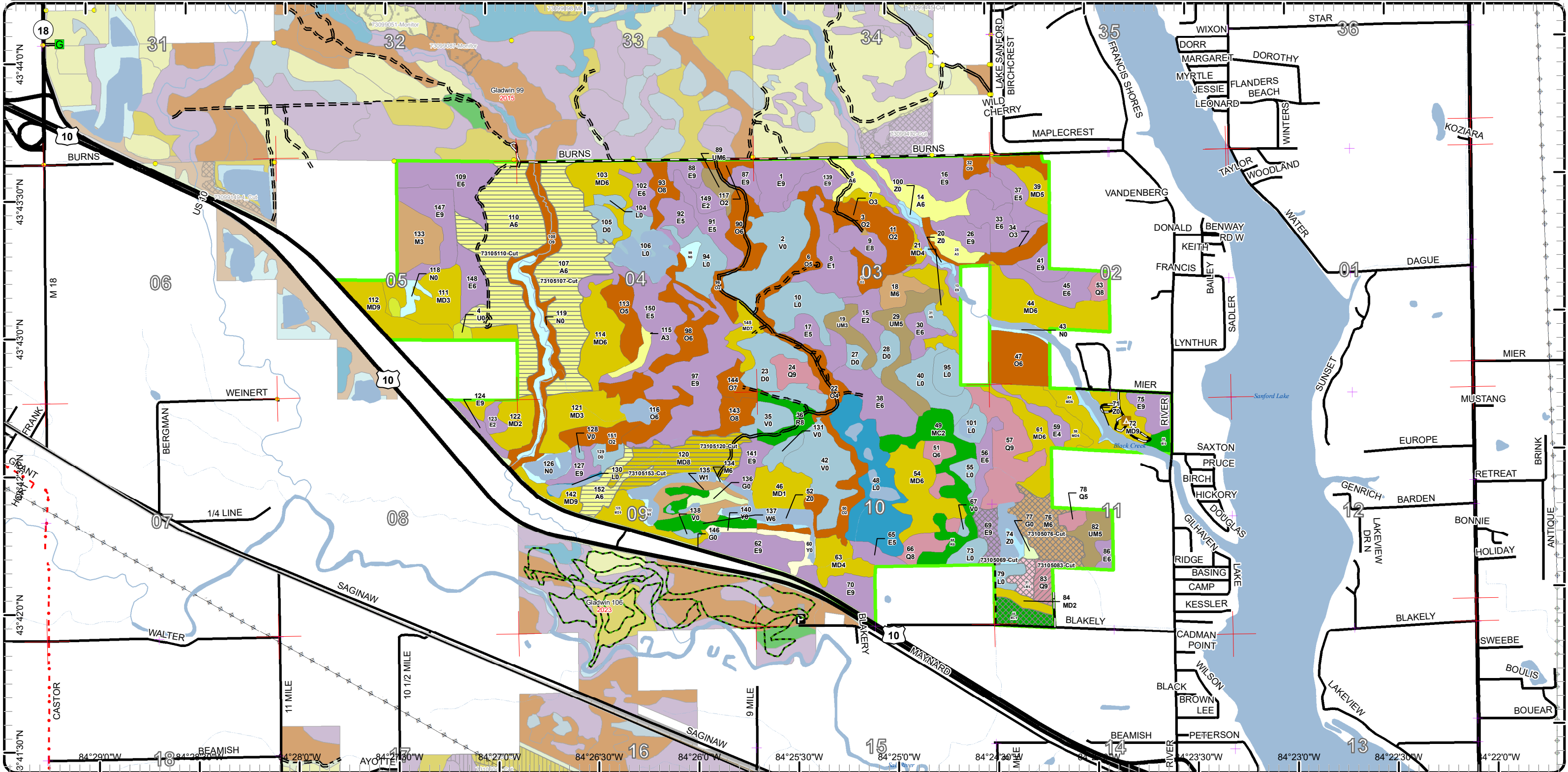
Compartment: 105
T15N-R01W, Sec. 2-5 & 8-11

County: Midland
Unit: Gladwin
Mgmt Area: Midland-Isabella
YOE: 2024

Acres: 2823.7 GIS Calculated
Examiner: Scott Shooltz
Map Revised: 6/2/2022
Map Phase: Web-Post



- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
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- DNR - Secondary Forest Road
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- Federal / State Highway
- Federal / State / County - Paved Road
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- - Designated Ski Trails
- Designated Multi-Use Trails
- Non-Designated RailTrail
- ▲ Berms
- ▲ Campground
- P Parking Lot
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Non-Designated Recreational Trail
- Compartment Boundary
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Thinning (Crown, Low, Systematic)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland
- 710 - Sand/Soil

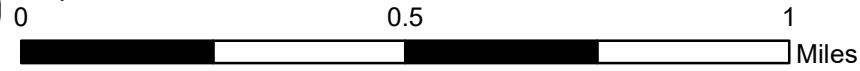


Stand Boundary Map

Compartment: 105
T15N-R01W, Sec. 2-5 & 8-11

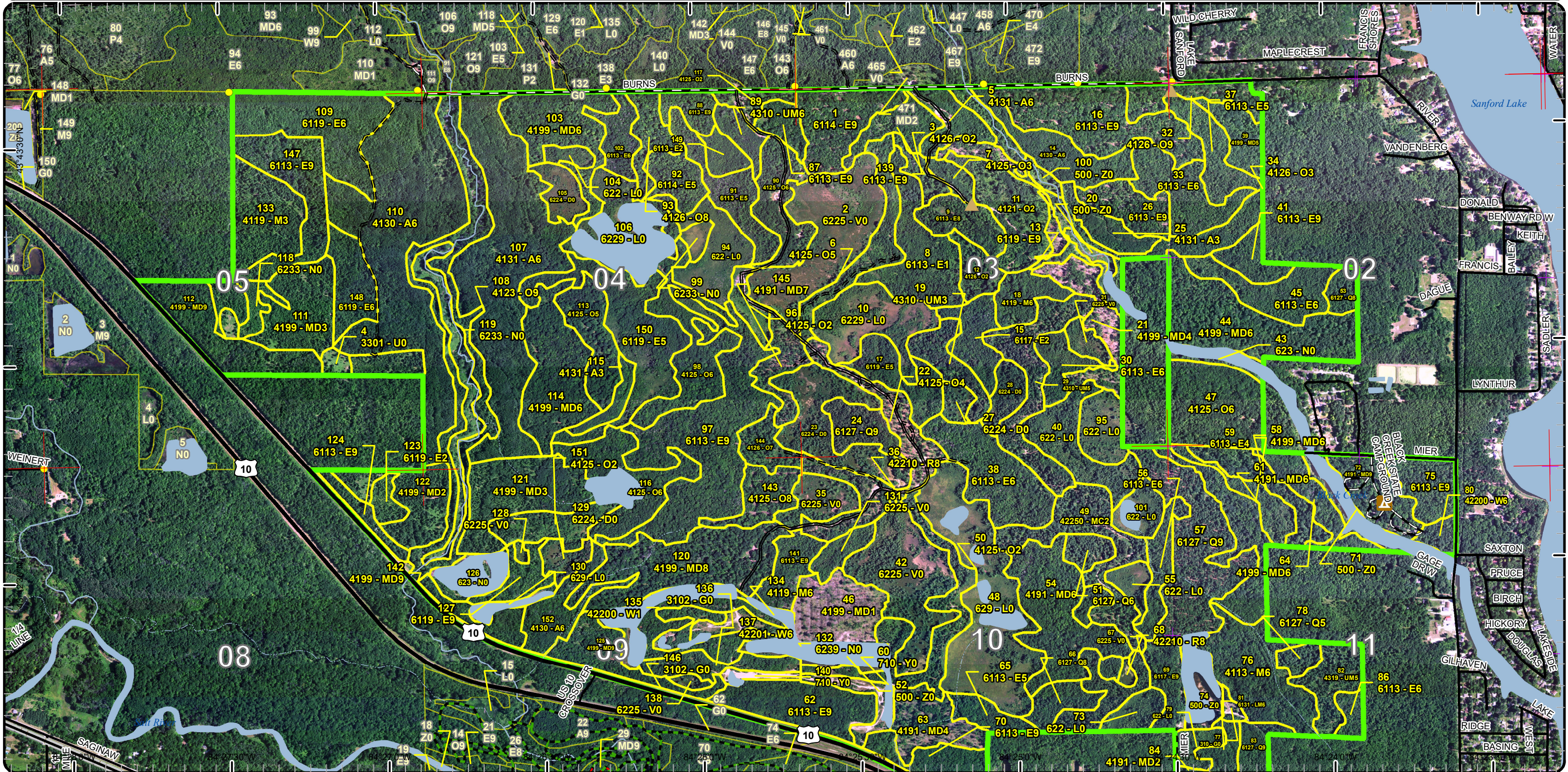
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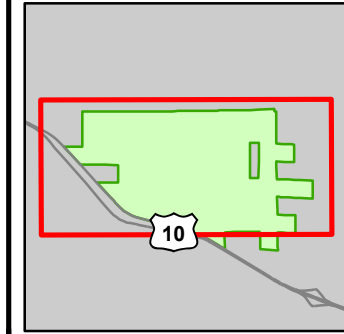
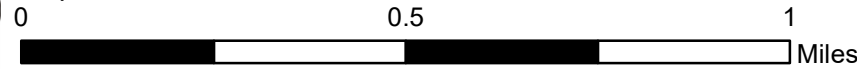


Special Conservation Areas

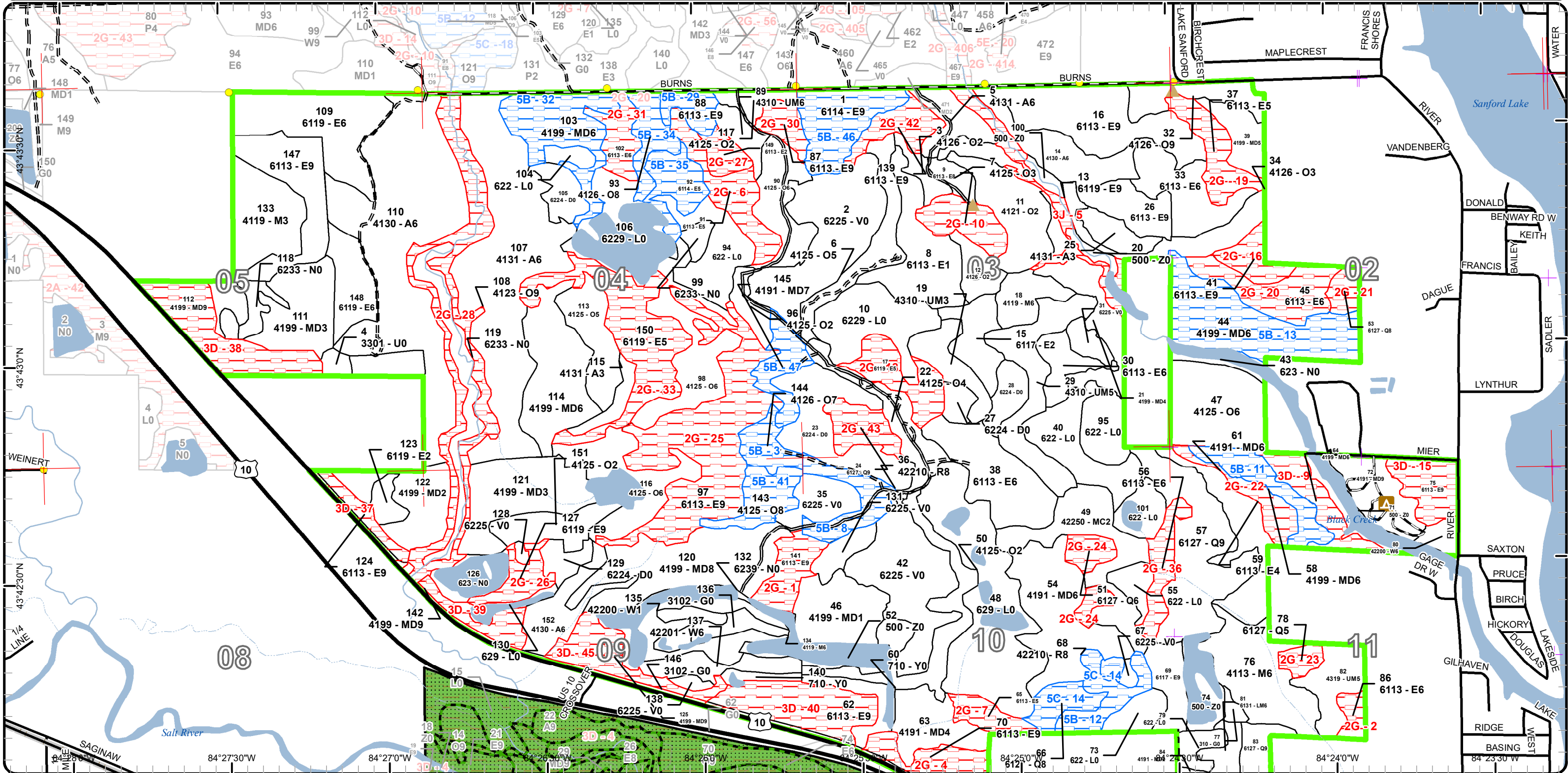
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- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
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Cover Type & Treatments Map

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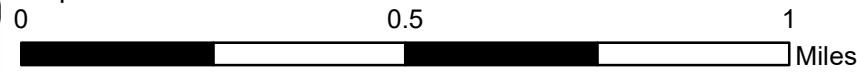
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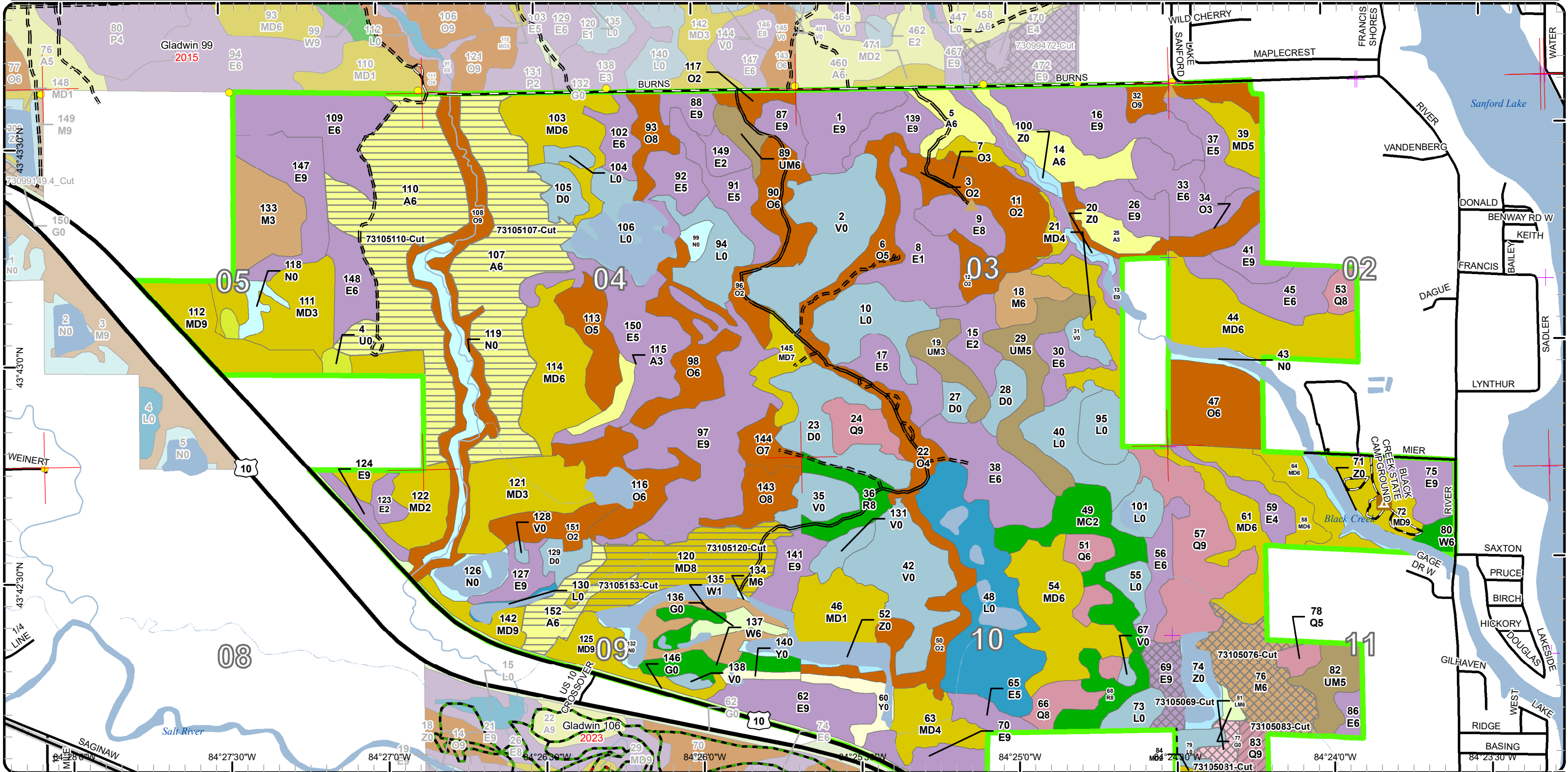
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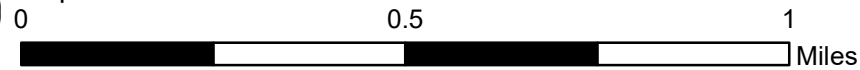
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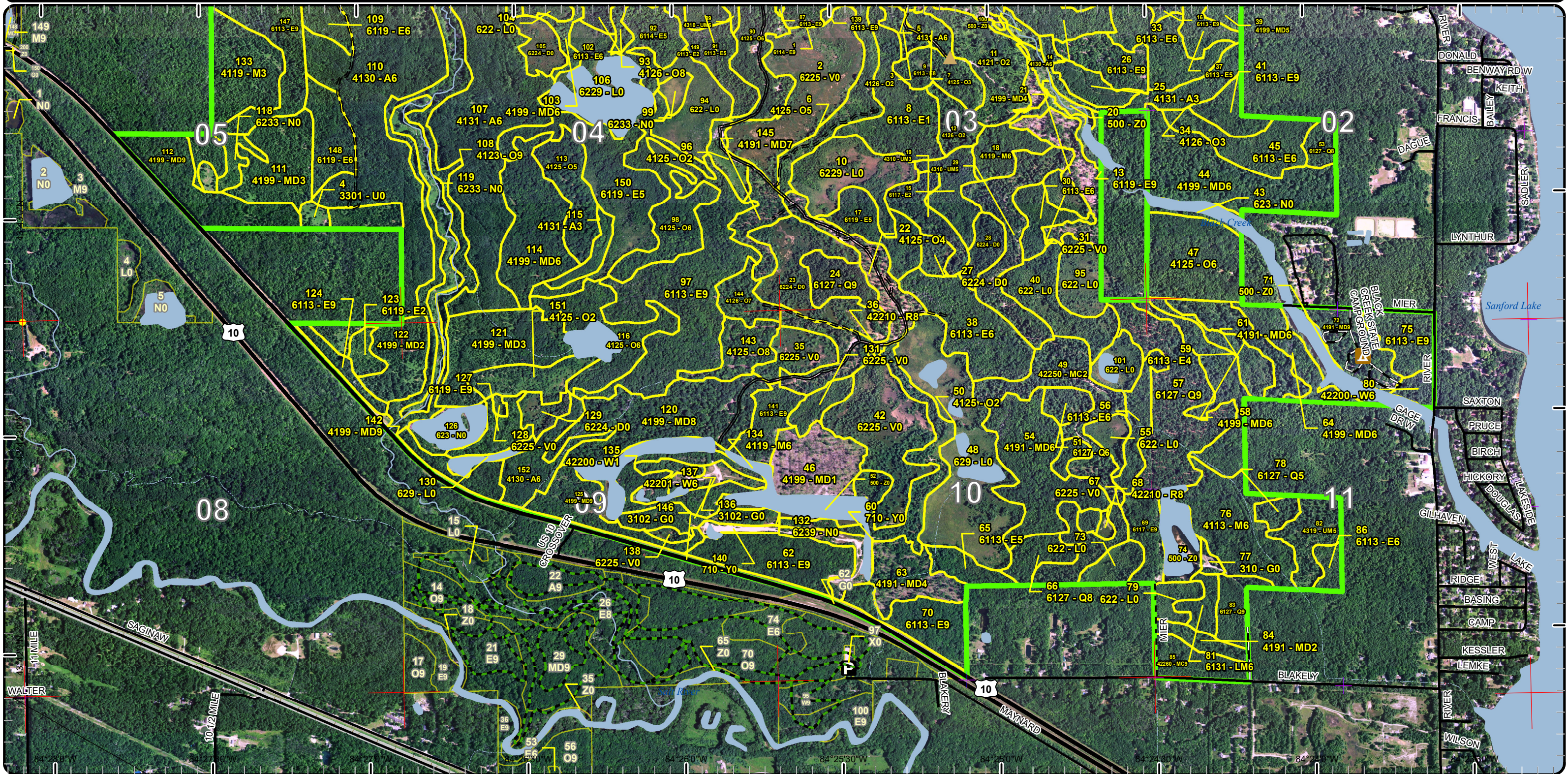
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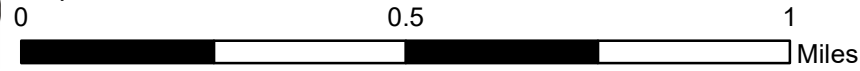
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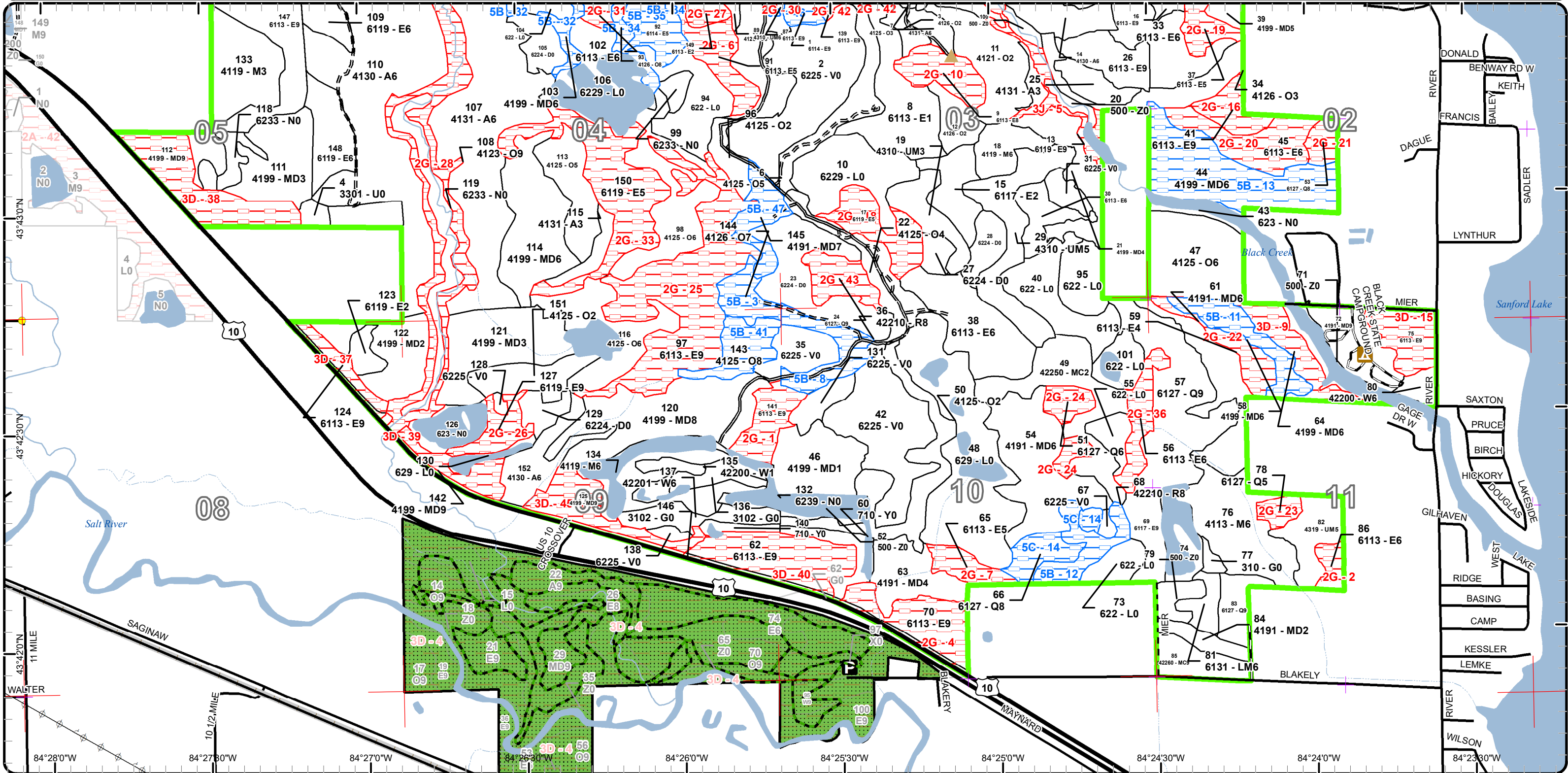
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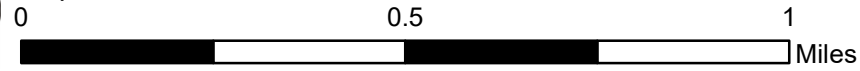


Cover Type & Treatments Map

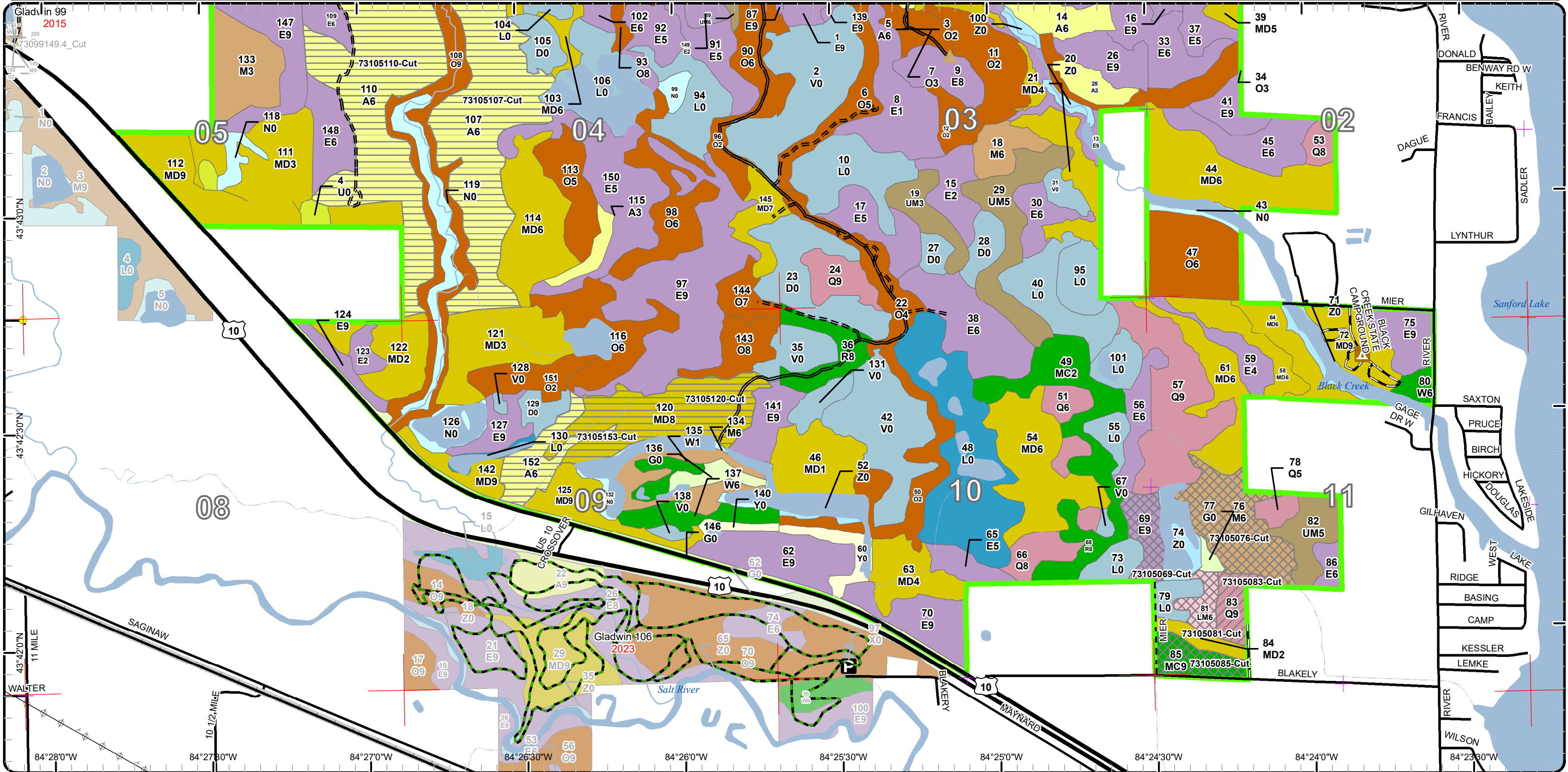
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Report 1 – Total Acres by Cover Type and Age Class



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	9	40	201	0	17	0	0	0	0	0	0	0	0	0	0	267
Bog	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
Herbaceous Openland	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	0	0	0	0	21	5	12	12	6	0	0	0	0	0	48	104
Lowland Deciduous	0	0	15	24	37	108	40	62	0	52	141	0	0	0	0	0	0	235	713
Lowland Mixed Forest	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
Lowland Shrub	223	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	223
Marsh	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65
Mixed Upland Deciduous	0	0	7	86	79	111	20	57	30	28	48	0	13	0	0	0	0	60	538
Natural Mixed Pines	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	45
Northern Hardwood	0	0	0	27	0	12	19	0	36	0	0	0	0	0	0	0	0	0	94
Oak	0	0	106	52	0	69	28	34	0	46	36	0	0	0	0	0	0	14	385
Red Pine	0	0	0	0	0	0	0	0	0	0	14	15	0	0	0	0	0	0	29
Sand, Soil	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Treed Bog	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Upland Mixed Forest	0	0	59	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	67
Water	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
White Pine	0	0	0	7	0	0	0	12	0	0	0	0	0	0	0	0	0	5	24
Total	551	0	219	205	156	509	107	210	71	138	251	21	13	0	0	0	0	375	2824



Report 2 – Treatment Summary

Gladwin Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 105

Total Compartment Acres: 2,824

Commercial Harvest - 344
 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
Aspen	218	0	0	0	0	0	0	0	0	218
Lowland Conifers	0	0	0	0	10	0	0	0	0	10
Lowland Deciduous	0	12	0	0	0	0	0	0	0	12
Lowland Mixed Forest	0	7	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	48	0	0	0	0	0	0	0	0	48
Natural Mixed Pines	0	13	0	0	0	0	0	0	0	13
Northern Hardwood	0	36	0	0	0	0	0	0	0	36
Total	266	68	0	0	10	0	0	0	0	344

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	344	0	0	0	0	0	0	0	0	344
Next Step	0	0	0	0	0	334	0	0	0	334
Total	344	0	0	0	0	334	0	0	0	678



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

69	73105069-Cut	12.3	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	86	141-170	Harvest	Group Selection	611 - Lowland Deciduous Forest	Two-Aged	No
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Prescription Specs: Thin stand to 100 BA. Prioritize retention of pine. Protect understory especially pine. Harvest during dry frozen conditions. Apply oak wilt restrictions.

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

Acceptable Regen: Low to moderate oak/maple/pine in larger gaps. Release of advanced understory through rest of the stand.

Other Comment: Some understory damage is expected due to density. Stand has been excised from forest certification scope.

Site Condition:

Proposed Start Date: 10/1 /2023

76	73105076-Cut	35.5	4113 - R.Maple, Conifer	Poletimber Well	78	81-110	Harvest	Group Selection	4191 - Mixed Upland Deciduous with Conifer	Two-Aged	No
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Prescription Specs: Thin stand to 60 BA. Mark large canopy gaps on upland knobs. Leave wet areas un-marked. Focus on removing poor formed and/or suppressed trees. Prioritize retention of pine. Apply oak wilt restrictions. Stand has been excised from forest certification scope.

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

Acceptable Regen: Low to moderate amount of oak/maple/pine regeneration in bigger gaps. Release of current understory throughout the rest of the stand.

Other Comment: Harvest during dry frozen. Protect understory especially pine.

Site Condition:

Proposed Start Date: 10/1 /2023

81	73105081-Cut	6.9	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	61	51-80	Harvest	Group Selection	6131 - Hemlock, White Pine, Maple, Birch	Uneven-Aged	No
----	--------------	-----	--	-----------------	----	-------	---------	-----------------	--	-------------	----

Prescription Specs: Thin to 60 BA by creating 50 - 100 ft canopy gaps. Prioritize retention of pine for seed source. Protect advanced understory especially pine. Apply oak wilt restrictions. Harvest during dry/frozen conditions.

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

Acceptable Regen: Low to moderate pine/oak/maple in larger canopy gaps. Release of advanced understory through rest of the stand.

Other Comment: Stand has been excised from forest certification scope.

Site Condition:

Proposed Start Date: 10/1 /2023



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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
83 73105083-Cut	10.4	6127 - Lowland Pine	Sawtimber Well	61	171-200	Harvest	Crown Thinning	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Thin to 100. Harvest during dry/frozen conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Will have to mark skid trails. Stand has been excised from forest certification scope.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
85 73105085-Cut	13.2	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	70	111-140	Harvest	Group Selection	42260 - Natural Pine, Mixed Deciduous	Uneven-Aged	No
<p><u>Prescription</u> Thin to 100. Remove all trees within 30 feet of Blakely Rd. Harvest during dry/frozen conditions. Apply oak wilt restrictions. Protect advanced understory especially pine. Remove wettest areas from sale boundary.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Low to moderate oak/maple/pine/aspen regeneration in larger canopy gaps. Release of advanced understory through rest of stand.</p> <p><u>Other Comment:</u> Sale acres may be significantly less than prescribed acres. West end is wet. Stand has been excised from forest certification scope.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
107 73105107-Cut	94.2	4131 - Aspen, Oak	Poletimber Well	43	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Two-Aged	No
<p><u>Prescription</u> Harvest 2" and up. Do not cut oak or pine. Apply Gladwin grouse habitat specifications. Protect drainages and seeps that flow into Mud Creek. Areas of the stand are wet. Harvest during dry or frozen conditions. Apply oak wilt specifications.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate aspen stems mixed with various sized oak residual.</p> <p><u>Other Comment:</u> An undesignated bicycle trail runs through the stand along Mud Creek.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
110 73105110-Cut	106.8	4130 - Aspen	Poletimber Well	43	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest 2" and up. Apply Gladwin grouse habitat specifications. Protect drainages and seeps that flow into Mud Creek. Areas of the stand are wet. Harvest during dry or frozen conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully to moderately stocked aspen with mixed deciduous.</p> <p><u>Other Comment:</u> Close illegal roads and trails with sale. Entrance from Burns Rd needs large culvert capped with gravel to allow drainage and prevent erosion into Mud Creek.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
120 73105120-Cut	48.2	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	96	1-50	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Clear cut 4" and up. Do not cut pine. Harvest during dry frozen conditions. Remove wettest areas from the sale boundary.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of species meeting minimum stocking levels.</p> <p><u>Regen:</u></p> <p><u>Other</u> Sale acres may be significantly less than prescribed acres.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
152 73105153-Cut	16.8	4130 - Aspen	Poetimber Well	61	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut 2" and up. Apply Gladwin grouse specifications. Harvest during dry or frozen conditions. Remove wettest areas from the harvest boundary.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to full stocking of aspen mixed with other hardwoods.</p> <p><u>Regen:</u></p> <p><u>Other</u> Sale acres may be significantly less than prescribed acres. A wet drainage bisects the stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 344.3

Report 4 – Site Conditions

Gladwin Mgt. Unit
Scott Shooltz: Examiner

Compartment: 105
Year of Entry: 2024



Availability for Management

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

5B 5C 2G 3D 3J

Total	Acres	Acres Avail	Acres	Dominant Site Conditions	5B	5C	2G	3D	3J
267	267	0	0	Aspen			0		0
120	120	0	0	Bog	0				
25	16	0	9	Herbaceous Openland			3	6	
5	5	0	0	Low-Density Trees					
103	58	12	33	Lowland Conifers		12	33		
714	271	48	395	Lowland Deciduous	48		329	50	16
7	7	0	0	Lowland Mixed Forest					
223	223	0	0	Lowland Shrub	0		0		
65	65	0	0	Marsh					
537	359	105	73	Mixed Upland Deciduous	105		0	73	
46	46	0	0	Natural Mixed Pines			0		
94	94	0	0	Northern Hardwood			0		
386	304	36	46	Oak	36		46		
29	0	29	0	Red Pine	29				
12	12	0	0	Sand, Soil					
61	61	0	0	Treed Bog	0				
67	67	0	0	Upland Mixed Forest			0		
40	40	0	0	Water					
24	24	0	0	White Pine					
2,824	2,038	230	555	Total Forested Acres	218	12	412	128	16
	72%	8%	20%	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		2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

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2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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8	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3D: Recreational / Scenic values	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5B: Maintain for regeneration purposes	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5B: Maintain for regeneration purposes	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment until stand 68 is harvested again. Low ground will need an adjacent upland site for decking. This will smash valuable regeneration is stand 68.							
15	Unavailable	3D: Recreational / Scenic values	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	71	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	46	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold 10 years then then and create more canopy gaps.							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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32	Available	5B: Maintain for regeneration purposes	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold 10 years to allow white pine understory to develop more. Supplemental planting will probably be required post harvest.							
35	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold 10 years then remove another portion of the older age class.							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	3D: Recreational / Scenic values	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Visual screen along US-10							

Report 4 – Site Conditions

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 Scott Shooltz: Examiner

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38	Unavailable	3D: Recreational / Scenic values	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Visual screen along US-10.							
39	Unavailable	3D: Recreational / Scenic values	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	3D: Recreational / Scenic values	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold for 10 years then evaluate restart.							
42	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
43	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz: Examiner

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45	Unavailable	3D: Recreational / Scenic values	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
46	Available	5B: Maintain for regeneration purposes	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Available	5B: Maintain for regeneration purposes	13	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

Mgt. Unit

Compartment:

Year of Entry



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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
1	6114 - Lowland Oak	Sawtimber Well	25.4	98	51-80	N/A	2024 YOE Comments: Minimal regeneration at this time. Maintain canopy until regeneration layer is established then thin again.																																			
<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>White Oak</td> <td>15</td> <td>Log/XLog/Pole</td> <td>13</td> <td></td> </tr> <tr> <td>Swamp White Oak</td> <td>30</td> <td>Log/Pole/XLog</td> <td>11</td> <td>98</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>15</td> <td>Log/Pole/XLog</td> <td>10</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Log/Pole/XLog</td> <td>11</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>35</td> <td>Log/Pole</td> <td>11</td> <td>98</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Oak	15	Log/XLog/Pole	13		Swamp White Oak	30	Log/Pole/XLog	11	98	Black/Red (Hybrid) Oak	15	Log/Pole/XLog	10		Red Oak	5	Log/Pole/XLog	11		Red Maple	35	Log/Pole	11	98	<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>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Deciduous Shrubs	High	5 - 10 feet	Tall Shrub	2017 Sale Closure Comments: Harvested in July of 2017 under contract # 730091201, Sanford Lake Selection. Residual BA was 70. One 60-80 ft. regeneration gap was placed per acre. Residual BA focused on large canopy oak. All aspen and birch were removed.
Canopy Species	% Cover	Size Class	DBH	Age																																						
White Oak	15	Log/XLog/Pole	13																																							
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Sub-Canopy Species	Density	Avg. Height	Size																																							
Deciduous Shrubs	High	5 - 10 feet	Tall Shrub																																							
							2012 YOE Comments: The stand is declining with many of the swamp white oak having dead tops especially in the low wet ground. There are some wind throws but it is in the wettest parts of the stand. The terrain is hummocky and very wet there are areas but overall much of the stand appears to dry out late summer. The stand has a component of upland mixed in. These areas are in small patches but they do not make up a minority of the total acres.																																			
2	6225 - Bog	Nonstocked	48.4		Immature	No	2012 YOE Comments: This stand is a large leather leaf bog with a few scattered trees of jack, red and white pine. The crown closure is less than 15%																																			
3	4126 - White, Black, N. Pin Oak	Sapling Medium	5.7	17	Immature	N/A	2012 YOE Comments: The southern 3/4 of the stand was burned in 2004 then salvaged in 2005. The regeneration is variable going from poorly stocked to fully stocked. There are inclusions of low wet ground in the stand.																																			
<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>Red Maple</td> <td>10</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>White Oak</td> <td>15</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>25</td> <td>Log/XLog</td> <td>16</td> <td>87</td> </tr> <tr> <td>White Oak</td> <td>15</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>35</td> <td>Sapling</td> <td>3</td> <td>17</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Sapling	3		White Oak	15	Log/XLog	16		Black/Red (Hybrid) Oak	25	Log/XLog	16	87	White Oak	15	Sapling	3		Black/Red (Hybrid) Oak	35	Sapling	3	17	<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>Witch Hazel</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Witch Hazel	Low	5 - 10 feet	Tall Shrub	
Canopy Species	% Cover	Size Class	DBH	Age																																						
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Sub-Canopy Species	Density	Avg. Height	Size																																							
Witch Hazel	Low	5 - 10 feet	Tall Shrub																																							
4	3301 - Low Density Deciduous Trees	Nonstocked	5.2	0		No	2024 YOE Comments: Split stand out from stand to the NW. Was clearcut 2" and up in 1994. A few residual oak/pine/ maple left, now pole/log class. This area did not regenerate well. Canopy closure is below 25%. 2008 YOE Comments: The stand was harvested with as a 4" clearcut last YOE. The ground is hummocky with a lot of microrelief. The stand lack many of the lowland indicators in large enough quality to call the stand a lowland. The aspen regen in the stand is in small pockets and looks in poor shape, could be deer impact. Ground cover overall is blueberry, poverty grass and bracken fern. 1999 Sale Closure Comments: Harvested in 1994 under contract 73-097-92-01, Burns Road 88. Cut all trees 2" and up except cottonwood.																																			
5	4131 - Aspen, Oak	Poletimber Well	12.8	30	51-80	N/A	2024 YOE Comments: Stand has transitioned to the pole class.																																			
<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>Black/Red (Hybrid) Oak</td> <td>25</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>45</td> <td>Pole/Sapling</td> <td>5</td> <td>30</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black/Red (Hybrid) Oak	25	Sapling/Pole	4		Red Maple	20	Sapling/Pole	4		Quaking Aspen	10	Pole/Sapling	5		Bigtooth Aspen	45	Pole/Sapling	5	30	<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>Witch Hazel</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Witch Hazel	Medium	5 - 10 feet	Tall Shrub	2012 YOE Comments: The stand is a mixture of oak and aspen with some red maple. The north end is more aspen being an A3O2 bur overall oak is the majority. There are also some sawlog trees that were left after the stand had a fire salvage done in it. The fire burned in 2004.					
Canopy Species	% Cover	Size Class	DBH	Age																																						
Black/Red (Hybrid) Oak	25	Sapling/Pole	4																																							
Red Maple	20	Sapling/Pole	4																																							
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Sub-Canopy Species	Density	Avg. Height	Size																																							
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							Sale Closure Comments: Harvested between 1993 & 1999 under contract 73-071-92-01, Winding Trail Sale. Cut 4" and up.																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
6	4125 - Black, N. Pin Oak	Poletimber Medium	19.0	17	Immature	N/A	2012 YOE Comments: This stand is on a ridge. Most of it burned in 2004. Overall the stand has regenerated as a medium stocked oak stand but there are pockets of well and poorly stocked oak present. There are also some oak > 4" that survived the burn. 1985 Sale Closure Comments: Harvested in 1985 under contract 73-037-83-01, Long John Sale. Harvested all trees 4" and up. Not all trees were harvested.																																										
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8	6113 - Lowland Maple	Sapling Poor	30.3	37	51-80	N/A	2012 YOE Comments: This stand is a mixture of upland and lowland. The majority is lowland and has regenerated to maple mixed with quaking aspen, red and black oak. The stand was burned in 2004. Sale Closure Comments: Harvested in 1985 under contract 73-037-83-01, Long John Sale. Harvested all trees 4" and up. Not all trees were harvested.																																										
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9	6113 - Lowland Maple	Sawtimber Medium	14.2	98	51-80	N/A	2012 YOE Comments: The stand was partly burned in 2004. It is variable in density going from fully stocked to poorly stocked. There are inclusions of marsh in the stand.																																										
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10	6229 - Mixed lowland shrub	Nonstocked	29.1			No	2012 YOE Comments: The stand is a mixture of leather leaf and tag alder. There are some scattered trees mainly paper birch, White pine and quaking aspen. These trees have < 15% crown closer.																																										
11	4121 - Oak, Aspen	Sapling Medium	25.7	14	Immature	N/A	2012 YOE Comments: The stand was harvested in 2003 then burned in 2004. The east side of the stand was not cut but was later salvaged in 2005 after the wildfire. It is now a sparse oak log stand. The regeneration is good on the upland ridges but poor in the lower areas. Overall the stand has regenerated as an A3O2. 2008 Sale Closure Comments: Harvested in 2008 under contract 73-029-02-01, Stockholm Village Harvest. Cut all trees 2" up except for pine trees and trees marked with green paint. Approximately 6 sq ft of oak and pine were left.																																										
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12	4126 - White, Black, N. Pin Oak	Sapling Medium	8.9	17	Immature	N/A	2012 YOE Comments: The stand was burned in 2004 and salvaged in 2005. The south end is low and wet and has a lot of blow down. Regeneration is variable going from medium to poorly stocked. Sale Closure Comments: Harvested in 1985 under contract 73-037-83-01, Long John Sale. Harvested all trees 4" and up. Not all trees were harvested.																																																						
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13	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	15.9	98		N/A	2012 YOE Comments: New stand added. The stand is on the flood plain of the Black Creek.																																																						
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14	4130 - Aspen	Poletimber Well	21.5	39	81-110	N/A	2024 YOE Comments: Dense stand. Trees are tall with small diameter. Still growing vigorously. Cut in 10 years to allow more self thinning to occur. 2012 YOE Comments: The stand has several drainages running through bisecting the stand. There is a closed trail that runs along the southern portion of the stand. The quaking aspen is concentrated along the drainages and bigtooth aspen is in the upland areas. Sale Closure Comments: Harvested in 1983 under contract 73-023-83-01. Cut 4" and up.																																																						
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15	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	14.7	17	Immature	N/A	2012 YOE Comments: The stand burned in 2005. It has regenerated well but a lot of the poles that were standing are now down. The terrain is hummocky and is a mixture of upland and lowland with the lowland being the majority. Sale Closure Comments: Harvested in 1985 under contract 73-037-83-01, Long John Sale. Harvested all trees 4" and up. Not all trees were harvested.																																																						
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16	6113 - Lowland Maple	Sawtimber Well	41.4	98	51-80	N/A	2024 YOE Comments: White pine filling in the understory. Let understory continue to develop. Accept regeneration. 2016 Sale Closure Comments: Harvested September of 2015 under contract # 730091201, Sanford Lake Selection. Residual BA was 72. All aspen and birch were removed along with most of the larger diameter trees. One 60-80 ft canopy gap was created per acre. 2012 YOE Comments: The stand is a mixture of upland and lowland with the lowland being just a little more than the upland. The matrix of upland and lowland is too mixed to separate. There is some blow down in the lowest and wettest areas but it is not sever.																																																						
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17	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	17.1	87		N/A	2012 YOE Comments: The stand is variable going from seedling to poles. The ground cover is very brushy with lowland shrubs. The terrain is hummocky.																																						
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18	4119 - Mixed Northern Hardwoods	Poletimber Well	12.1	40	81-110	N/A	2012 YOE Comments: Stand is a thick layer of red maple sapling and some poles under a scatted super canopy of oak and white pine. Sale Closure Comments: Harvested in 1985 under contract 73-037-83-01, Long John Sale. Harvested all trees 4" and up. Not all trees were harvested. 1980 Comments: Habitat cut under FTP W-73-15.																																						
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19	4310 - Pine, Oak Mix	Sapling Well	13.4	17	51-80	N/A	2024 YOE Comments: Understory from previous inventories is now the dominant canopy. Super canopy red pine over sapling maple/oak/pine. Let the stand continue to grow. 2012 YOE Comments: The stand is on a ridge that goes between two leatherleaf bogs. The access to the stands is difficult. There is some advance oak and maple regeneration present in the stand.																																						
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20	500 - Water	Nonstocked	3.0	0		No	2012 YOE Comments: The stand is on the flood plain of the Black Creek.																																						
21	4199 - Other Mixed Upland Deciduous	Poletimber Poor	26.8	60	1-50	N/A	2024 YOE Comments: Scattered oak and maple stump sprouts. Stand should fill in over time. Accept regeneration. 2016 Sale Closure Comments: Harvested December of 2015 under contract # 730091201, Sanford Lake Selection. Residual BA was 28. All aspen and birch were removed along with all trees 10" and up except green painted trees. Stand is now three polygons. Areas of dense poles size advanced regeneration throughout the stand. Other areas resemble a 2" clearcut. 2012 YOE Comments: The stand is one level above the flood plain of the Black Creek. There are some wet pockets and at the north end there is an aspen pocket on a ridge boarder along the south by drainage.																																						
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22	4125 - Black, N. Pin Oak	Poletimber Poor	18.6	29	1-50	N/A	2024 YOE Comments: Stand has moderate regeneration. Accept and do not plant. 2016 Sale Closure Comments: Harvested November of 2015 under contract # 730091201, Sanford Lake Selection. Residual BA was as follows: 11 mixed oak, 3 white oak, and 5 mixed conifer. Advanced oak regeneration was protected. 2012 YOE Comments: The stand has had the dead oak harvested in the past. It now has a good layer of advance oak regeneration. The regeneration is patchy being thickest in the more open areas of the stand.																																									
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23	6224 - Treed Bog	Nonstocked	31.9			No	2012 YOE Comments: This is a leather leaf bog with small islands of pine. They're inclusions of a wet grass type in the south end. The trees in the bog are mainly red pine with some jack pine they have > 15% but < 25% crown closure.																																									
24	6127 - Lowland Pine	Sawtimber Well	12.3	84	111-140	N/A	2012 YOE Comments: Stand is very hummocky and wet. The density of the trees is variable and goes from poorly stock to fully stocked. The size is variable and goes from seedling to logs.																																									
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25	4131 - Aspen, Oak	Sapling Well	8.8	25		N/A	2024 YOE Comments: Stand is on the edge of pole class. 2012 YOE Comments: This stand is heavy to oak in the west end. The aspen has some hypoxylon canker but it is not heavy. Sale Closure Comments: Harvested between 1993 & 1999 under contract 73-071-92-01, Winding Trail Sale. Cut 4" and up.																																									
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27	6224 - Treed Bog	Nonstocked	4.8			No	2012 YOE Comments: Stand swapped from Forested to Non-Forested. The stand is white pine and red pine over leather leaf.																																									
28	6224 - Treed Bog	Nonstocked	8.6			No	2012 YOE Comments: Stand is a mixture of lowland shrubs and leather leaf with some white pine, oak, and paper birch.																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
29	4310 - Pine, Oak Mix	Poletimber Medium	30.0	15	Immature	N/A	2024 YOE Comments: Former understory is now the canopy. Super canopy red pine is under 30% of crown closure. Switched stand to pole and adjusted dominant age. 2012 YOE Comments: The stand is a mix of thick pocket of red pine saw and white pine sapling and poles with area that are open. The regeneration is a mixture of white pine and oak. The stand was harvested in 2007 by removing aspen, maple, oak and marked pine. The regeneration is coming in but it would not be considered established yet.																																											
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30	6113 - Lowland Maple	Poletimber Well	10.8	43	81-110	N/A	2012 YOE Comments: The stand is in a depression. There is a thick overstory of lowland hardwoods with the ground cover of shrubs. There are inclusions of open lowland shrub. 1980 Comments: Habitat cut under FTP W-73-15.																																											
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31	6225 - Bog	Nonstocked	5.4			No	2012 YOE Comments: The stand has some white pine but < 15% crown closer.																																											
32	4126 - White, Black, N. Pin Oak	Sawtimber Well	14.2	98	51-80	N/A	2024 YOE Comments: Low to moderate regeneration. Let understory continue to progress. 2016 Sale Closure Comments: Harvested September of 2015 under contract # 730091201, Sanford Lake Selection. Residual BA was 69. All aspen and birch were removed along with most of the larger diameter trees. One 60-80 ft canopy gap was created per acre. 2012 YOE Comments: The stand is a mixture of upland and lowland with the upland being the majority.																																											
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33	6113 - Lowland Maple	Poletimber Well	24.2	66	81-110	N/A	2024 YOE Comments: Mix of pole timber, saplings, and logs. Thin in 10 years. BA is currently too low. 2012 YOE Comments: The stand has some blown down but not bad.																																											
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34	4126 - White, Black, N. Pin Oak	Sapling Well	16.8	25	Immature	N/A	2024 YOE Comments: Stand will be pole class in 10 years. 2012 YOE Comments: The stand is undulating and droughty Sale Closure Comments: Harvested between 1993 & 1999 under contract 73-071-92-01, Winding Trail Sale. Cut 4" and up.																																											
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35	6225 - Bog	Nonstocked	12.8			No	2012 YOE Comments: This is a leather leaf bog with some red and white pines in it. The trees are scattered and have < 15% crown closure.																																											
36	42210 - Natural Red Pine	Sawtimber Medium	14.6	103	51-80	N/A	2024 YOE Comments: Maintain canopy as is. Allow understory to develop. 2012 YOE Comments: The stand was harvested in 2007. The residual that was left was 61 Sq Ft. Some of the trees have since wind thrown. The regeneration is poor to moderate. The residual density is also variable. 2007 Sale Closure Comments: Originally part of sale 73-022-02-01, Crazy Eights Harvest. Cut under contract 73-023-02-01, Raceway Hardwoods via amendment. Cut all oak, maple, aspen that are 2" and up. Cut orange marked pine. Approximately 61 sq ft left.																																											
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37	6113 - Lowland Maple	Poletimber Medium	16.1	66		N/A	2012 YOE Comments: New stand added. The stand is very wet with heavy blown down. The stand is structured as a shelterwood harvest in crown closer and the oak is responding.																																											
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38	6113 - Lowland Maple	Poletimber Well	32.5	83	51-80	N/A	The stand has a lot of overstory oak that has died and come down. Red maple is replacing it. The terrain is hummocky and a mixture of upland and lowland. The lowland makes up the majority.																																											
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39	4199 - Other Mixed Upland Deciduous	Poletimber Medium	11.8	46	51-80	N/A	2024 YOE Comments: Former understory regeneration is now the main canopy. Approximately 30% of the canopy is still in the 98 yr age class. Updated stand is pole class and reduced dominant age.																																														
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Black/Red (Hybrid) Oak	Low	Variable	Sapling																																																		
40	622 - Lowland Shrub	Nonstocked	23.6			No	2012 YOE Comments: The stand is a lowland shrub type that is a mixture of lowland shrubs and open marsh grass. The stand overall is very wet and the shrub are heavy to tag alder and michigan holly.																																														
41	6113 - Lowland Maple	Sawtimber Well	9.8	105	81-110	N/A	2024 YOE Comments: Too wet for management.																																														
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42	6225 - Bog	Nonstocked	41.0			No	2012 YOE Comments: The stand is a lowland type and is a mixture of leather leaf, marsh grass, tag alder, willow, and michigan holly. These exist in a matrix. The majority of the stand is leather leaf.																																														
43	623 - Emergent Wetland	Nonstocked	6.7			No	2012 YOE Comments: This stand is part of the back waters of the Tittabawasee River. Currently it is more of a marsh with island of lowland shrubs.																																														
44	4199 - Other Mixed Upland Deciduous	Poletimber Well	47.0	40	51-80	N/A	2024 YOE Comments: Most of the aspen and birch was removed from the stand in 1982. Pole timber is the dominant size class.																																														
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2008 Sale Closure Comments: Harvested in 2008 under contract 73-029-02-01, Stockholm Village Harvest. Cut all aspen, birch and orange marked oak trees. Approximately 54 sq ft of oak, maple and pine was left.																																																					
1985 Sale Closure Comments: Partially harvested in 1985 under contract 73-028-83-01. Sale was not completed. Contract holder left some aspen, birch, and marked trees standing.																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
45	6113 - Lowland Maple	Poletimber Well	21.4	62	81-110	N/A	The stand is lowland with swamp hardwood pole overstory and a thick lowland shrub understory.																																																				
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46	4199 - Other Mixed Upland Deciduous	Sapling Poor	25.6	26	1-50	N/A	2017 Sale Closure Comments: Harvested November of 2015 under contract # 730091201, Sanford Lake Selection. 4" clearcut with 48 retention trees marked (1 elm, 16 mixed oak, 8 white oak, 16 red maple, and 7 red pine.) Mix of dense poles and open areas. 2012 YOE Comments: The stand is hummocky. The structure of the stand has an over story of oak and an oak/maple understory with some beech. There is an inclusion of low swamp hardwood but the area is less than 5 acres in size.																																																				
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47	4125 - Black, N. Pin Oak	Poletimber Well	34.1	68	81-110	N/A	2024 YOE Comments: Pole timber now dominates the stand. Succeeded from sub-canopy. Overstory oak/maple still present but less than 50% of the canopy. 2012 YOE Comments: The stand has nice overstory oak and maple. It is some what hummocky with wet pockets.																																																				
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48	629 - Mixed non-forested wetland	Nonstocked	66.2			No	2012 YOE Comments: This is an lowland type that is a mixture of marsh, lowland shrub, The ground cover goes from tag alder, michigan holly to holly and willow then to marsh.																																																				
49	42250 - Pine, Oak	Sapling Medium	32.3	14	1-50	N/A	2024 YOE Comments: Stand has filled in substantially, oak/maple/pine. Super canopy is sparse, leave it. 2012 YOE Comments: The stand had the oak removed retaining conifer. Regeneration is variable but heavy to white pine. Oak regeneration is heavily browsed. 2008 Sale Closure Comments: Harvested in 2008 under contract 73-029-02-01, Stockholm Village Harvest. Cut all trees 4" up except for pine trees and trees marked with green paint. Approximately 17 sq ft of oak and pine were left. 60 trees were marked with green paint.																																																				
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50	4125 - Black, N. Pin Oak	Sapling Medium	27.9	15	1-50	N/A	2012 YOE Comments: The stand was 4" spec clearcut in 2007. There are some oak poles but overall it make up < 15% of the crown closure. The trail through the stand has been blocked and not one is using it. The stand is a mixture of regeneration density going from non-stocked to well stocked. The regeneration is mainly from stump sprouts with some seed source. 2007 Sale Closure Comment: Harvested under contract 73-023-02-01, Raceway Hardwoods. Cut all trees 4" and up except for pine.																																															
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51	6127 - Lowland Pine	Poletimber Well	10.2	60	81-110	N/A	2012 YOE Comments: The stand is a pine stand over a leatherleaf bog.																																															
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52	500 - Water	Nonstocked	9.0			No	2024 YOE Comments: Switched cover-type to water. This stand stays flooded all year. 2012 YOE Comments: This was part of a flooding. Currently it is a marsh type with open water. The water is shallow. The ground cover is marsh type, cattails, and phragmites.																																															
53	6127 - Lowland Pine	Sawtimber Medium	5.8	105	1-50	N/A		The stand is very hummocky with a lot of shrubs including huckleberry, dogwood, tag alder and willow.																																														
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54	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	40.6	95	51-80	N/A	2012 YOE Comments: The stand looks like it was an oak stand that the overstory died and now has come down. It is converting to oak/maple/white pine stand.																																															
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55	622 - Lowland Shrub	Nonstocked	6.5			No	2012 YOE Comments: This is a lowland shrub type with a pocket of marsh in the north end. The shrubs are heavy to tag alder and michigan holly.																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
56	6113 - Lowland Maple	Poletimber Well	12.5	86	51-80	N/A	2024 YOE Comments: Still in pole class. Not ready to be thinned. 2012 YOE Comments: The stand is mainly pole maple wit oak. There are inclusions of lowland shrubs in the stand.																																														
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57	6127 - Lowland Pine	Sawtimber Well	47.6	90	51-80	N/A	2024 YOE Comments: White pine seedlings throughout where canopy was opened up. Let understory establish then thin again. 2016 Sale Closure Comments: Stand was thinned to 79 BA in November of 2015 under contract # 730091201, Sanford Lake Selection. BA ranges from 40 to 140. 2012 YOE Comments: The stand is a mixture of upland and lowland. The majority is lowland. The trail through the stand is in sorry shape with deep ruts.																																														
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58	4199 - Other Mixed Upland Deciduous	Poletimber Well	15.8	34	1-50	N/A	2024 YOE Comments: De-certified land T 15N R 01W Section 11 NWNE, NENW, W1/2SW. Released advanced regeneration from previous harvest is now main component. 2012 YOE Comments: The stand was harvested and is now a two aged stand. There was significant rutting along the edges when the stand was harvested. 2008 Sale Closure Comments: Harvested in 2008 under contract 73-029-02-01, Stockholm Village Harvest. Cut all aspen, birch, and red maple 4" and up. Also cut orange marked oak. Approximately 43 sq ft of oak and pine left.																																														
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59	6113 - Lowland Maple	Poletimber Poor	10.8	82		N/A	2024 YOE Comments: De-certified land T 15N R 01W Section 11 NWNE, NENW, W1/2SW. 2012 YOE Comments: Stand swapped from Non-Forested to Forested. The stand is mainly swamp hardwoods over lowland shrubs. The center portion of the stand is open with paper birch overstory with a crown closer of < 25%. The age is take from the overstory trees along the edges. However, much of the stand is younger.																																														
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60	710 - Sand, Soil	Nonstocked	9.0			No	2012 YOE Comments: This area is a sand drag with some grass in the undisturbed edges. When and if the waterfowl flooding is reestablished in Compartment 104 it will close off this area. Then it is likely to heal.																																														



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61	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	23.3	32	81-110	N/A	2012 YOE Comments: The stand is a mixture of upland and lowland with the upland being the majority. It looks like a two aged stand that when it was harvested they marked overstory to retain and cut the under story to 4" DBH. So now there are large oak and small poles to saplings.																																																								
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62	6113 - Lowland Maple	Sawtimber Well	27.9	95		N/A	2024 YOE Comments: Setup for sale under contract number 73-003-14-01 Burns 104-2 but was removed from the contract. 2012 YOE Comments: The stand is currently set up for a sale Burns 104.																																																								
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63	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	19.6	51	1-50	N/A	2016 Sale Closure Comments: Harvested in November of 2015 under contract # 730091201, Sanford Lake Selection. This stand was cut 10" and up with scatter large trees marked as residual. Residual BA of all trees 10" and under plus green marked residual was 38. An intermittent stream flows through the center of the stand. This was left out of the harvest. 2012 YOE Comments: New Stand, The stand is mostly upland. The west side of the stand is heavily dissected by drainages. The white pine in the stand is concentrated on a ridge along the south edge of the stand. The area was put up for harvest last YOE under contract 73-023-02-01, Raceway Hardwoods but was not cut. It appears that the residual density was too high and access was tricky.																																																								
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64	4199 - Other Mixed Upland Deciduous	Poletimber Well	15.0	44	81-110	N/A	2024 YOE Comments: De-certified land T 15N R 01W Section 11 NWNE, NENW, W1/2SW. Two aged stand. Log sized oak over pole sized maple/oak. 2012 YOE Comments: The stand is undulating and it is a mixture of upland and lowland with the upland being the majority.																																																								
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65	6113 - Lowland Maple	Poletimber Medium	8.6	98	51-80	N/A	2012 YOE Comments: The stand is low and very wet. The marsh type to the north and west of the stand drains through it.																																																								
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66	6127 - Lowland Pine	Sawtimber Medium	12.0	95	51-80	N/A	2024 YOE Comments: Switched stand to lowland. Ground is harvestable during dry or frozen conditions. BA is around 80. Manage on same time interval as adjacent upland stand. 2012 YOE Comments: The stand was split into two part by a sale last YOE. The white pine in the stand is in wetter ground.																																															
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67	6225 - Bog	Nonstocked	1.6			No	2012 YOE Comments: This is a small depression of leather leaf.																																															
68	42210 - Natural Red Pine	Sawtimber Medium	14.0	95	51-80	N/A	2024 YOE Comments: Regeneration is established. Advanced regeneration is released. White pine still seeding in. Allow process to continue. Thin in 20 years. Grow big trees on this site. 2012 YOE Comments: The stand was harvested in 2007. The harvest removed all the hardwoods and marked pine. The residual is variable as well as the regeneration. What is coming is a mixture of white pine and oak. The oak seedlings currently are less than 3' so not considered established. The regeneration goes from non stocked to fully stocked.																																															
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69	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	12.3	86	141-170	N/A	2024 YOE Comments: De-certified land T 15N R 01W Section 11 NWNE, NENW, W1/2SW. 2012 YOE Comments: New stand added. The stand is hummocky with areas of upland and lowland. Sale Closure Comments: Partially harvested in 1983 under contract 73-026-83-01. Unit 1 of sale, marked trees partially harvested, aspen and birch not cut.																																															
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70	6113 - Lowland Maple	Sawtimber Well	20.4	98		N/A	2012 YOE Comments: The stand is a mixture of upland and lowland with the lowland making up the majority. It was set up to be harvested last YOE but was not cut. The residual was left too high and the soil is some what wet. Overall the stand appears to dry out in late summer. The cottonwood in the stand is concentrated in the south east corner.																																															
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71	500 - Water	Nonstocked	12.9			No	2024 YOE Comments: De-certified land T 15N R 01W Section 11 NWNE, NENW, W1/2SW. 2012 YOE Comments: This is the back waters of the Tittibawasee River.																																															



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72	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	19.4	83	51-80	N/A	2024 YOE Comments: De-certified land T 15N R 01W Section 11 NWNE, NENW, W1/2SW. Black Creek State Forest Campground. 2012 YOE Comments: Stand was harvested in 2012 removing most of the red oak from the camp ground and along the access road.																																																												
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73	622 - Lowland Shrub	Nonstocked	8.2			No	2012 YOE Comments: The stand is mainly a lowland shrub type with scattered white pine. The white pine has > 15% crown closure but lack bog characteristics. The stand should fill in with ash, maple, white pine, and other species.																																																												
74	500 - Water	Nonstocked	12.6			No	2024 YOE Comments: De-certified land T 15N R 01W Section 11 NWNE, NENW, W1/2SW. This stand is the Turtle pond which is an old barrow pit.																																																												
75	6113 - Lowland Maple	Sawtimber Well	15.5	103	111-140	N/A	2024 YOE Comments: De-certified land T 15N R 01W Section 11 NWNE, NENW, W1/2SW. 2012 YOE Comments: This stand is hummocky with cinnamon fern.																																																												
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76	4113 - R.Maple, Conifer	Poletimber Well	35.6	78	81-110	N/A	2024 YOE Comments: De-certified land T 15N R 01W Section 11 NWNE, NENW, W1/2SW. The stand is hummocky and has areas of lowland. Overall the stand is upland with significant wet pockets.																																																												
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77	310 - Herbaceous Openland	Nonstocked	2.1			No	2024 YOE Comments: De-certified land T 15N R 01W Section 11 NWNE, NENW, W1/2SW. This was a parking area before the road to the turtle pond was closed. There is some spotted knapweed present in the stand.																																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
78	6127 - Lowland Pine	Poletimber Medium	4.9	72	51-80	N/A	Stand swapped from Non-Forested to Forested. The stand is stunted white pine over leather leaf.																																	
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79	622 - Lowland Shrub	Nonstocked	6.6			No	2024 YOE Comments: De-certified land T 15N R 01W Section 11 NWNE, NENW, W1/2SW. This stand is a lowland shrub stand of tag alder and michigan holly. There are some pole size white pines in the stand but they are scattered.																																	
80	42200 - Natural White Pine	Poletimber Well	5.0	63	141-170	N/A	2024 YOE Comments: De-certified land T 15N R 01W Section 11 NWNE, NENW, W1/2SW. 2012 YOE Comments: The stand is an area of white pine that is mainly poles with a few supercanopy white pines and red pine.																																	
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81	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	6.9	61	51-80	N/A	2024 YOE Comments: De-certified land T 15N R 01W Section 11 NWNE, NENW, W1/2SW. The stand is a mixture of upland and lowland with the lowland being the majority. Terrain is hummocky.																																	
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82	4319 - Mixed Upland Forest	Poletimber Medium	16.0	15	1-50	N/A	2024 YOE Comments: Regeneration and released 4" stems are now the main canopy. 2012 YOE Comments: The stand was harvested retaining pine. Currently it has a super canopy of red pine with stump sprouts of maple and oak. There is some advanced regeneration of white pine in the stand. The stump sprouts are heavily browsed by deer. 2008 Sale Closure Comments: Harvested in 2008 under contract 73-029-02-01, Stockholm Village Harvest. Cut all trees 4" up except for pine trees and trees marked with green paint. Approximately 20 sq ft of oak and pine were left.																																	
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83	6127 - Lowland Pine	Sawtimber Well	10.4	61	171-200	N/A	2024 YOE Comments: De-certified land T 15N R 01W Section 11 NWNE, NENW, W1/2SW. The stand is a mixture of upland and lowland with the lowland making up the majority.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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84 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 6.7 19 Immature N/A 2024 YOE Comments: De-certified land T 15N R 01W Section 11 NWNE, NENW, W1/2SW.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	1	15
Black/Red (Hybrid) Oak	40	Sapling	1	19
Black/Red (Hybrid) Oak	5	Log	14	
White Pine	35	Pole/Sap/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Low	< 5 feet	Tall Shrub
Serviceberry (Juneberry)	Low	Variable	Tall Shrub

2012 YOE Comments: The stand was harvested retaining some oak and white pine. Terrain is hummocky.

2003 Sale Closure Comments: Harvested under contract 73-018-02-01, Turtle Pond Salvage. Cut 4" and up except for red pine, white pine, and green marked oak.

85 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 13.2 70 111-140 N/A 2024 YOE Comments: De-certified land T 15N R 01W Section 11 NWNE, NENW, W1/2SW.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole/Sap/Log	8	
Bigtooth Aspen	10	Log	12	
White Pine	45	Log/Pole/XLog	13	70
Red Pine	15	Log/Pole/XLog	15	
Black/Red (Hybrid) Oak	15	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Pine	Full	Variable	Sapling

The stand is a mixture of upland and lowland with the upland being the majority.

86 6113 - Lowland Maple Poletimber Well 5.1 87 81-110 N/A Stand swapped from Non-Forested to Forested.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	10	Log/Pole	10	
White Oak	10	Log/Pole	10	
Black/Red (Hybrid) Oak	20	Log/Pole/Sap	10	87
Red Maple	60	Pole/Sap/Log	7	87

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling

87 6113 - Lowland Maple Sawtimber Well 7.8 91 N/A 2008 YOE Comments: This stand is low and wet with inclusions of lowland brush and marshes. These inclusion are less than 1 acre in size. The soil is hummocky. Also where the stand is very wet have a canopy of mainly swamp white oak mixed with red maple and ash.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	65	Log/Pole	10	91
Swamp White Oak	35	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Red Maple	Medium	10 - 20 feet	Sapling
Swamp White Oak	Low	5 - 10 feet	Sapling

88 6113 - Lowland Maple Sawtimber Well 8.1 81 51-80 N/A 2024 YOE Comments: Switched stand to lowland and adjusted boundary along SW edge. One upland knob with oak on it. Understory is mostly white pine but oak saplings are present too. Lowland areas of the stand are either heavy to brush or open. Hold thinning and gap creation for 10 years. 2008 YOE Comments: The stand had the aspen and marked maple and oak removed. It is regenerating seedling oak of white, red, and black. Aspen regen from harvest is poor at best and maple is not becoming a major invader yet. 2003 Sale Closure Comments: Harvested in 2003 under contract 73-033-98-01, South Burns Hardwood. Cut orange painted trees, mostly aspen. Left approximately 40 sq ft.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	65	Log/Pole/Sap	10	81
White Oak	10	Log/XLog	14	
Black/Red (Hybrid) Oak	25	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Red Maple	Medium	>20 feet	Sapling
White Pine	Medium	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
89	4310 - Pine, Oak Mix	Poletimber Well	7.6	44	51-80	N/A	2024 YOE Comments: Switched covertype away from aspen. Aspen only located in SE 1.5 acres. Aspen quality is very poor with high mortality. White pine and oak are succeeding through to the canopy. Most of the stand is white pine and oak dominated with maple heavy along western edge. 2008 YOE Comments: The stand has some super canopy white and red pines. 1979 Comments: Harvested under contract 14-77A in 1979.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		45	Pole/Sap/Log	8	44	White Pine		Medium	10 - 20 feet	Sapling	
White Oak		10	Pole/Sap/Log	6		Black/Red (Hybrid) Oak		Medium	10 - 20 feet	Sapling	
Red Maple		10	Pole/Sapling	5	44	White Oak		Medium	10 - 20 feet	Sapling	
Bigtooth Aspen		15	Pole/Sapling	5	44						
Black/Red (Hybrid) Oak		20	Pole/Sap/Log	7	44						
90	4125 - Black, N. Pin Oak	Poletimber Well	21.1	44	51-80	N/A	2024 YOE Comments: Transitioned to pole class. Oak and maple are multi-stemmed. A few white and red pine saplings in the understory. 2008 YOE Comments: The stand has more maple and black oak than in the other stands of oak. It has some super canopy white pine, red pine, and oak. 1979 Comments: Harvested under contract 14-77A in 1979.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		5	Pole/Sapling	6		White Pine		Trace	10 - 20 feet	Sapling	
Red Pine		2	Log	14		Black/Red (Hybrid) Oak		Low	10 - 20 feet	Sapling	
Red Maple		28	Pole/Sapling	5	44	White Oak		Trace	10 - 20 feet	Sapling	
Bigtooth Aspen		5	Pole	6	44	Red Pine		Trace	10 - 20 feet	Sapling	
White Oak		5	Pole/Sap/Log	6	44						
Black/Red (Hybrid) Oak		55	Pole/Sap/Log	6	44						
91	6113 - Lowland Maple	Poletimber Medium	19.0	24	Immature	N/A	2024 YOE Comments: Ash mortality was also a significant contributor to canopy reduction and increased water levels. Good stocking of maple sapling/poles at north end will succeed into the canopy. South end has less stocking. 2008 YOE Comments: This stand has regenerated after the overstory was killed off by high water. The water looks like it has gone down. There are pockets of L and N type in the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Swamp White Oak		25	Pole/Log/Sap	7		Michigan Holly		High	5 - 10 feet	Tall Shrub	
Black/Red (Hybrid) Oak		10	Log/Pole/Sap	10		Black/Red (Hybrid) Oak		Low	5 - 10 feet	Sapling	
Red Maple		65	Pole/Sap/Log	6	24	Red Maple		Medium	5 - 10 feet	Sapling	
						Swamp White Oak		Low	5 - 10 feet	Sapling	
92	6114 - Lowland Oak	Poletimber Medium	14.7	94	1-50	N/A	2024 YOE Comments: Although close, lowland appears to be the dominant land form position. Canopy closure reduced to below 75%. This will increase over the next decade or two. Good stocking of maple and oak saplings throughout ready to succeed. Upland areas have lower stocking than lowlands. 2008 YOE Comments: The stand is a matrix of upland and lowlands with the elevation difference between the 2 bring 12-14". The lowland areas are heavy to red maple sapling with some red and white oaks. The upland are heavier to oak regeneration of mainly seed source. 2003 Sale Closure Comments: Harvested in 2002 under contract 73-033-98-01, South Burns Hardwood. Cut orange painted trees, mostly aspen. Left approximately 40 sq ft.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		35	Pole/Sap/Log	6		Black/Red (Hybrid) Oak		Medium	10 - 20 feet	Sapling	
White Oak		15	Log/Pole	10	94	White Oak		Low	10 - 20 feet	Sapling	
Black/Red (Hybrid) Oak		45	Pole/Log/Sap	8	94	Red Maple		Low	10 - 20 feet	Sapling	
Paper Birch		5	Pole/Sapling	6							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
93	4126 - White, Black, N. Pin Oak	Sawtimber Medium	11.8	94	51-80	N/A	2024 YOE Comments: Open understory stand. Some oak saplings present. Hard to determine origin but most appear to be released understory saplings. Best regeneration is scattered white pine seedlings along eastern edge which are suffering from browse and defoliation. 2008 YOE Comments: The stand was harvested the last YOE removing all the aspen had marked other species. Aspen in the cut did not regenerate but the oak has good regeneration most of it is single stem from acorns. 2003 Sale Closure Comments: Harvested in 2002 under contract 73-033-98-01, South Burns Hardwood. Cut orange painted trees, mostly aspen. Left approximately 40 sq ft.																																							
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94	622 - Lowland Shrub	Nonstocked	21.3			No																																								
95	622 - Lowland Shrub	Nonstocked	13.0			No	2024 YOE Comments: Adjusted stand boundary. Acreage significantly reduced. Removed portions converting to forested types. 2012 YOE Comments: The stand is a lowland shrub type that is a mixture of lowland shrubs and open marsh grass. The stand overall is very wet and the shrub are heavy to tag alder and michigan holly.																																							
96	4125 - Black, N. Pin Oak	Sapling Medium	7.4	12	Immature	N/A	2016 Sale Closure Comments: Harvested under Burns 104. One of two units completed. 2008 YOE Comments: The stand is more mesic than stand 55 but is still upland. The stand has inclusions of lowland brush but are in small acreage. The stand does have some supercanopy white pines.																																							
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97	6113 - Lowland Maple	Sawtimber Well	70.8	91	81-110	N/A	2008 YOE Comments: The stand is low and wet. Many of the trees have fluted butts. The stand has some log and XL log red maple and swamp white oak. Ground cover rose, sensitive fern, cinnamon fern, royal fern, and cattails.																																							
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98	4125 - Black, N. Pin Oak	Poletimber Well	29.0	43	51-80	N/A	2024 YOE Comments: Oak/maple/aspen. Pole class with scattered log sized oak. 2008 YOE Comments: The stand is on a ridge surround most of the way around it with lowlands.																																							
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99	6233 - Wet Meadow	Nonstocked	3.6			No																																								
100	500 - Water	Nonstocked	2.9			No	2012 YOE Comments: The stand is made up of two beaver flooding. The north portion look old and may or may not be holding water the southern one is new and the overstory is just starting to die.																																							



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101	622 - Lowland Shrub	Nonstocked	9.6			No	2012 YOE Comments: The stand is a lowland shrub type that is a mixture of lowland shrubs and open marsh grass. The stand overall is very wet and the shrub are heavy to tag alder and michigan holly.																																																					
102	6113 - Lowland Maple	Poletimber Well	11.1	54	51-80	N/A	2024 YOE Comments: 2003 harvest released a good crop of saplings and poles. Regeneration is mostly brush.2008 YOE Comments: The stand is low and wet and very brushy.																																																					
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103	4199 - Other Mixed Upland Deciduous	Poletimber Well	29.9	65	51-80	N/A	2024 YOE Comments: Switched dominant stand age to reflect released pole class which is the most numerous. Also adjusted average diameter to pole size. Three distinct age classes. Log size YofO 1927 oak and maple. Pole size YofO 1959 (approximate) oak and maple. Sapling size YofO 2004 oak and maple.2008 YOE Comments: The stand was harvested last YOE removing the aspen, birch and mark other species. The stand is regenerating fairly well in the opening. The regen is single stem red and white oak from acorns. aspen regen is not coming in or are oak stump sprouts. The stand has a trace of paper birch in it. Ground cover- blueberry, bracken fern, winter green. lily of the valley, and dew berry.																																																					
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104	622 - Lowland Shrub	Nonstocked	3.9			No																																																						
105	6224 - Treed Bog	Nonstocked	9.3			No																																																						
106	6229 - Mixed lowland shrub	Nonstocked	30.9			No																																																						
107	4131 - Aspen, Oak	Poletimber Well	94.2	43	81-110	N/A	2024 YOE Comments: Low quality aspen along east side. Better along Mud Creek. Oak saplings throughout the understory on upland areas. Promote oak in this stand.2008 YOE Comments: The stand is growing well and should be a very nice pole stand in 10 years. The stand has more maple and oak than stand 12 and a higher percentage of bigtooth aspen. The stand has pockets of lowland brush and grass but most are less than 1 acre in size. Ground cover- black berry, raspberry, bracken fern, and blue berry.1979 Comments: Harvested under contract 14-77A in 1979.																																																					
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108	4123 - Red Oak	Sawtimber Well	45.7	84	51-80	N/A	2008 YOE Comments: Stand has many seeps in the side hills. The north end of the stand encompasses the whole flood plain so it is heavier to swamp hadwoods. But much of the stand is a mix of rem maple and oaks. Ground covers- starflower, bead lily, blood root, maidenhair fern, lily of the valley, sticky and sweet bedstraws, and horsetail.																																															
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109	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	39.1	43	81-110	N/A	2024 YOE Comments: Slightly more wet and less aspen than stand to the east. Boundary is fuzzy.2008 YOE Comments: The south end of the stand has a greater composition of aspen. The cover type moves for to maple and ash going north. There are some super canopy tree in the stand.1979 Comments: Harvested under contract 14-77A in 1979.																																															
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110	4130 - Aspen	Poletimber Well	106.8	43	81-110	N/A	2024 YOE Comments: Stand contains drainages and seeps that flow into Mud Creek. Boundary between this stand and e-type to the west is broad. Stand is a mix of upland and lowland. Aspen quality varies with hydrology and soil types with in the stand.2008 YOE Comments: The stand has pockets of grass and lowland brush that have less than 25% crown closure so they were kept in the stand as inclusion. Most of these pockets are small, less than 2 acres in size. Also in the stand there is a trace of black tupelo. Ground cover bracken fern, winter green, starflower, and grasses.1979 Comments: Harvested under contract 14-77A in 1979.																																															
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111	4199 - Other Mixed Upland Deciduous	Sapling Well	39.9	31	1-50	N/A	2024 YOE Comments: Split stand out from stand to the NW. Was not part of 4" clearcut in 2001. Instead was clearcut 2" and up in 1994. A few residual oak/pine/ maple left, now pole/log class. Canopy closure is around 75%. Dense and sparse areas.2008 YOE Comments: The stand was havested with as a 4" clearcut last YOE. The ground is hummocky with a lot of microrelief. The stand lack many of the lowland indicators in large enough quality to call the stand a lowland. The aspen regen in the stand is in small pockets and looks in poor shape, could be dear impact. Ground cover overall is blueberry, poverty grass and bracken fern.1999 Sale Closure Comments: Harvested in 1994 under contract 73-097-92-01, Burns Road 88. Cut all trees 2" and up except cottonwood.																																															
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112	4199 - Other Mixed Upland Deciduous	Sawtimber Well	29.6	76	81-110	N/A	2024 YOE Comments: Switched stand from lowland to upland. Although parts of the stand are very wet, the majority is dry. Lowland area are primarily drainages which bisected the stand. Pine pocket still struggling.2008 YOE Comments: The ground is hummocky with a lot of up and down. The saand has some upland inclusions and a planting of red pine that is less than an acre in size. the pine are only retaining 1 to 2 years of needles.																																															
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113	4125 - Black, N. Pin Oak	Poletimber Medium	19.4	43	1-50	N/A	<p>2024 YOE Comments: Oak saplings from last YOE are transitioning into the pole class. Aspen is mostly gone. Stocking is slowly increasing. Regeneration is a result of management in 1979. This is now the dominant age.</p> <p>2008 YOE Comments: The stand has a lot of open grown oaks, mainly red and white with some black. The stand has a medium stocking of oak seedling/sapling most are being hammered by deer though some are now over the deer. The aspen in the stand is declining and has very low vigor and soundness. The stand also has a large number of old white pine stumps.</p>																																											
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114	4199 - Other Mixed Upland Deciduous	Poletimber Well	36.5	43	81-110	N/A	<p>2024 YOE Comments: Switched to upland and updated stand boundary. Residual trees from '79 harvest are low quality on average. Regeneration from that harvest has better form. Thinning in 10-20 years is a possibility. Lowland areas of the stand don't appear to be too wet.</p> <p>2008 YOE Comments: The stand is a max of ridges and swales. The lowland in the stand is of a greater % then the upland so the stand is a lowland with inclusions of upland. Much of the canopy has dead tops and very low vigor.</p> <p>1979 Comments: Partially harvested under contract 14-77A in 1979.</p>																																											
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115	4131 - Aspen, Oak	Sapling Well	6.0	33	Immature	N/A	<p>The stand is a ridge. The aspen in the stand is starting to go through a natural thinning process so slash is accumulating but not a problem yet.</p>																																											
116	4125 - Black, N. Pin Oak	Poletimber Well	28.4	51	1-50	N/A	<p>2008 YOE Comments: The stand consist of two main knolls. The southern knoll is mainly oak and aspen, the northern knoll is mainly oak and maple. The stand has some oak regeneration on the dryer soils and red maple at the base of the knolls.</p>																																											
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117	4125 - Black, N. Pin Oak	Sapling Medium	6.4	12	Immature	N/A	<p>2016 Sale Closure Comments: Harvested under Burns 104. This stand was originally part of stand 88.</p> <p>2008 YOE Comments: The east portion of the stand has high BA and needs thinning. Stand quick drops off into stand 38 which is wet so boundary will need to be watched. Stand is next to Burns Road so visual is a concern</p>																																											
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118	6233 - Wet Meadow	Nonstocked	5.6			No																																												
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120	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	48.3	96	1-50	N/A	2024 YOE Comments: Understory ready to be released. Overstory is declining. White pine has increased in abundance. 2008 YOE Comments: The stand was harvested last YOE, the regeneration in the stand is sparse and it is mainly red maple and some oak. In the stand there are inclusion of lowlands. 2001 Sale Closure Comments: Harvested under contract 73-043-98-01, By 10 Removal. Cut all aspen and maple that were 2" and up. Cut dead and dying oak marked with orange paint.																																					
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121	4199 - Other Mixed Upland Deciduous	Sapling Well	37.0	23	Immature	N/A	2008 YOE Comments: The stand was harvested last YOE and some of the 4" oak was left. It has regenerated to aspen and oak fairly well. In the stand there is a drainage channel that is nearly pure paper birch at the east end going to maple, aspen, and oak at the west end. This drainage is narrow. Also in the stand there are opening of both grass and lowland brush that are < 1 acre in size so are inclusions. In some of these low area the ground was rutted where it was harvested. Along the west side of the stand there are many shallow draws that feed into Mud Creek. Ground cover is heavy to poverty grass and sweet fern. 1999 Sale Closure Comments: Harvested in 1998 under contract 73-097-92-01, Burns Road 88. Cut all trees 2" and up.																																					
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122	4199 - Other Mixed Upland Deciduous	Sapling Medium	23.1	23	1-50	N/A	2024 YOE Comments: Canopy closure close to 75%. In growth of oak and maple still occurring. 2008 YOE Comments: The stand was final harvest and is regeneration. In the stand there are areas of grass but they are small in size. The terrain is a mix of ridges and swales. There is a trace of paper birch and black tupelo in the stand. Ground cover-poverly grass, sweet fern, raspberry, blackberry, and bracken fern in the upland areas. In the lower area there is may apple, yellow violet, and little white trillium. 1999 Sale Closure Comments: Harvested in 1996 under contract 73-097-92-01, Burns Road 88. Cut all trees 2" and up.																																					
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123	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	5.3	23	1-50	N/A	2024 YOE Comments: Switched from upland to lowland. Canopy closure is around 50%. 2008 YOE Comments: Stand is a swale that was cut 7 years ago and has regenerated as red maple and oak. Ground cover sensitive fern, tag alder, grasses. 1999 Sale Closure Comments: Harvested in 1996 under contract 73-097-92-01, Burns Road 88. Cut all trees 2" and up.																																					
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124	6113 - Lowland Maple	Sawtimber Well	6.3	81	81-110	N/A	2008 YOE Comments: The stand overall is a lowland but does go to upland at NW and SE ends. The stand has a trace of bigtooth aspen and black tupelo																																					
125	4199 - Other Mixed Upland Deciduous	Sawtimber Well	18.1	83	81-110	N/A	2008 YOE Comments: The stand overall is an upland with inclusion of lowland. There are several small creeks that flow south and eventually get to the little salt river.																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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126 623 - Emergent Wetland Nonstocked 12.1 No

127 6119 - Mixed Lowland Deciduous Forest Sawtimber Well 10.0 83 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	35	Log/Pole/XLog	10	83	Red Maple	Medium	10 - 20 feet	Sapling
Swamp White Oak	10	Log/XLog/Pole	12		Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Red Maple	45	Pole/Log/XLog	8	83	Swamp White Oak	Low	5 - 10 feet	Sapling
White Oak	10	Log/XLog/Pole	12					

2008 YOE Comments: In the stand oak and maple regeneration is filling in under the crown gaps. the red oak in the stand is more on the knolls and the red maple in the swales. the ground is hummocky and about 75% is lowland and 25% is upland in a mixed matrix.

128 6225 - Bog Nonstocked 1.1 No

129 6224 - Treed Bog Nonstocked 6.5 No

130 629 - Mixed non-forested wetland Nonstocked 4.0 No

131 6225 - Bog Nonstocked 7.5 No

2024 YOE Comments: New stand. Split out from adjacent non-forested stand. Majority of this stand was cut in 1983.

2012 YOE Comments: The stand is a lowland type and is a mixture of leather leaf, marsh grass, tag alder, willow, and michigan holly. These exist in a matrix. The majority of the stand is leather leaf.

Sale Closure Comments: Harvested in 1983 under contract 73-058-82-01, Whale Pond Sale. All tree 4" and up were harvested. Approximately 10 acres of the 30 under contract were harvested.

132 6239 - Mixed Emergent Wetland Nonstocked 17.7 No

133 4119 - Mixed Northern Hardwoods Sapling Well 27.3 21 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Sapling/Pole	4	21	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
White Oak	5	Pole/Sapling	6	31	Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	60	Sapling/Pole	4	21	White Oak	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	30	Pole/Sapling	6	31	White Pine	Low	5 - 10 feet	Sapling
					Michigan Holly	High	5 - 10 feet	Tall Shrub

2024 YOE Comments: Dominant age class is now 2001 regeneration. 4" residual stems left during previous harvest were mostly oak.

2008 YOE Comments: The stand was harvested with as a 4" clearcut last YOE. The ground is hummocky with a lot of microrelief. The stand lack many of the lowland indicators in large enough quality to call the stand a lowland. The aspen regen in the stand is in small pockets and looks in poor shape, could be deer impact. Ground cover overall is blueberry, poverty grass and bracken fern.

2001 Sale Closure Comments: Harvested under contract 73-037-98-01, Burns End Hardwood. Cut all trees 4" and up. Released red maple and oak understory from aspen canopy.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
134	4119 - Mixed Northern Hardwoods	Poletimber Well	19.2	56	1-50	N/A	2008 YOE Comments: The stand is growing mainly of the overburden from a borrow pit use for US-10. the stand is mainly a pole stand though there are log trees along the west and south side of the stand. The stand does have inclusion of lowland that show up because of grown flora (blue flag, sensitive fern, new york fern, cinimon fern.) In the stand there are also trace species of black oak, balsam poplar, and rock elm.																																
135	42200 - Natural White Pine	Sapling Poor	6.6	24	1-50	N/A	2008 YOE Comments: Estimate is taken from the whorls of branches on the white pines. The stand has mainly seeded in from the surround area.																																
136	3102 - Grass	Nonstocked	6.8			No																																	
137	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	12.3	61	1-50	N/A	2008 YOE Comments: The stand is a mix of knolls and lower flates that are seasonable wet but the flora lack wetland plant indicators. The ground is hummocky.																																
138	6225 - Bog	Nonstocked	2.0			No																																	
139	6113 - Lowland Maple	Sawtimber Well	12.1	98	81-110	N/A	2012 YOE Comments: The stand is declining with many of the swamp white oak having dead tops especially in the low wet ground. There are some wind throws but it is in the wettest parts of the stand. The terrain is hummocky and very wet there are areas but overall much of the stand appears to dry out late summer. The stand has a component of upland mixed in. These areas are in small patches but they do not make up a minority of the total acres. Formerly part of stand 1 but was left out of harvest area because it is too wet.																																
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140	710 - Sand, Soil	Nonstocked	3.4			No																																	
141	6113 - Lowland Maple	Sawtimber Well	13.4	96	81-110	N/A	2012 YOE Comments: The stand is very wet with a few island of upland in it. These areas of upland are mainly along the south boundary of the stand. The water in the stand is very stagnate as well. There is some regeneration and that is mainly ash and maple. It also has trace species of pin oak and rock elm.																																
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142	4199 - Other Mixed Upland Deciduous	Sawtimber Well	9.9	83	81-110	N/A	2008 YOE Comments: The stand overall is an upland with inclusion of lowland. There are several small creeks that flow south and eventually get to the little salt river.																																
143	4125 - Black, N. Pin Oak	Sawtimber Medium	14.1	91	1-50	N/A	Stand has upland areas of oak and maple and inclusion of lowland maple and oak. Some of the mature oak in the stand is dead. the soil is hummocky but the ground cover lacks cinnimon and sensitive ferns. So the stand should dry out by late summer. The stand has many stems of red maple. The oak that live has larger crowns and the there is also have a trace of black cherry. Selection harvest completed November of 2015, 73-003-14-01 Burns 104-2. Residual BA is 58, 19 of which is oak.																																
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144	4126 - White, Black, N. Pin Oak	Sawtimber Poor	9.9	96	1-50	N/A	2024 YOE Comments: Understory is still developing. Harvest in 10 years with surrounding stands.																																														
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145	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	12.7	110	1-50	N/A	2016 Sale Closure Comments: Harvested under contract number 73-003-14-01 Burns 104-2. Aspen removal. Residual BA 51, 22 of which is oak.																																														
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146	3102 - Grass	Nonstocked	15.7	0		No	2024 YOE Comments: New stand. Mowed shoulder of US-10.																																														
147	6113 - Lowland Maple	Sawtimber Well	29.2	55	51-80	N/A	2024 YOE Comments: Minimal regeneration in wettest areas, mostly lowland brush. Residual sub-canopy was released resulting in some canopy succession. Dryer portions regenerated to oak/pine. Northern edge has dense u destroy of white pine saplings.2008 YOE Comments: The stand was harvested by a selection removing much of the red maple saws. The are pockets of regeneration of both aspen and oak resulting from the harvest. Lowest and wettest area are regeneration slowly.																																														
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148	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	16.5	43	81-110	N/A	2024 YOE Comments: Slightly more wet and less aspen than stand to the east. Boundary is fuzzy.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
149	6113 - Lowland Maple	Sapling Medium	6.8	37	1-50	N/A	2024 YOE Comments: Stand appears to have been cut with stands to the east. Missing overstory component that is present in adjacent e-types. Moderate stem density around 75% canopy closure. The canopy will eventually close in as the stand matures. 2008 YOE Comments: The stand is very wet. The outer edges are more of a red maple stand. However heading in toward the center of the stand it changes from red maple, to red maple/birch, to swamp white oak/maple/birch. The stand is a mix of well stocked swamp hardwoods with open pockets of marsh and lowland shrubs that are poorly stocked. 1979 Comments: Harvested under contract 14-77A in 1979.																																																		
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150	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	42.3	43	51-80	N/A	2008 YOE Comments: Stand is very wet with many inclusion of lowland brush. the is a presents of swamp hardwoods in them. Overall the stand is forested though crown closure is close to 35%. The stand is fairly dense in the north end but thins out heading south. The stand has some island of upland that are less than 1 acre in size. The larger overstory in the stand is mainly dead. Ground cover rose, sensitive fern, cinnamon fern, royal fern, and cattails.1979 Comments: Harvested under contract 14-77A in 1979.																																																		
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151	4125 - Black, N. Pin Oak	Sapling Medium	16.1	23	1-50	N/A	2008 YOE Comments: The stand is hummocky with a lot of pit and mound topography. When the stand was harvest some of the 4" oak and maple. The crown closure ranges from 25-50 in south, 75-100 in center, and 50-75 north side. 1999 Sale Closure Comments: Harvested in 1998 under contract 73-097-92-01, Burns Road 88. Cut all trees 2" and up.																																																		
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152	4130 - Aspen	Poletimber Well	16.8	61	81-110	N/A	2008 YOE Comments: The stand is rich mesic site with a large varity of ground cover plants (jack-in-the-pupit, may apple, starflower, maiden hair fern, spinulose fern, cinnamon fern, bracken fern, lily-of-the-valley, gooseberry, violet both blue and yellows, trillium, and maple leaf viburnum). The stand has many drains and the ground cover is hummocky. Aspen is more common in the east part of the stand and more maple in the west part of the stand. Also in the stand there is a trace of black oak, green ash, and black ash.																																																		
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