



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73027

Entry Year 2023

Acreage: 1,891

County Gladwin

Management Area: Gladwin Lake Plain

Revision Date: 2021-05-19

Stand Examiner: Steve Nyhoff

Legal Description:

T20N R01W Sections 1, 12, 13, 24

T20N R01E Sections 4, 9, 16, 21, 22, 28, 33

Identified Planning Goals:

Vegetation management in the Gladwin Lake Plain management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including the Rifle River, a designated natural river; the Lame Duck Foot Access Area, a high conservation value area; several wildlife area floodings; threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the age-class distributions for aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife related recreation opportunities. Expected trends in this 10-year planning period will be the continued need to address illegal off-road vehicle use, trash dumping and increased recreational pressure.

Soil and topography:

The terrain is generally flat. There is some topographic relief near the lakes and along the creeks.

The soils are about 54% dominated by well to excessively drained soils, 7% dominated by somewhat poorly drained soils, 37% dominated by poorly to very poorly drained soils, and 2 % being water. Many of the soil associations in the compartment are some combination of upland and lowland soils. Therefore, the stands are often a matrix of uplands and lowlands.

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

The state ownership is heavily fragmented. The State Land west of M-30 is mostly inaccessible because of private land and drainages.

The private land parcels are mainly in small tracts for permanent or seasonal residences around the lakes at the north end of the compartment. The southern and western portions of the compartment are a mix of permanent and seasonal residences, and some recreational properties.

Unique Natural Features:

There are records of Bald Eagle, Wood Turtle, Blanding Turtle, and Common Loon. Most of the records are located around Elk Lake and Mud Lake.

Archeological, Historical, and Cultural Features:

None in the data base or located during the inventory process.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

The compartment borders several lakes and their associated creeks. These flow into the Tittabawassee River. Any harvest will need to be set up to avoid sedimentation into the creeks and lakes.

Wildlife Habitat Considerations:

Wildlife Habitat Considerations: Compartment 27 contains a variety of vegetative types. Upland and lowland systems are present, making it suitable for a number of wildlife species. This compartment functions as a major travel corridor for Black Bears. Game species likely to be present in this compartment include black bear, bobcat, raccoon, coyote, wild turkey, ruffed grouse, snowshoe hare, and white-tailed deer. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These include gray catbird, redbreasted vireo, white-breasted nuthatch, tufted titmouse, black-capped chickadees, eastern kingbirds, northern flicker and common loon. The compartment is easily accessible to hunters via M-30.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and lacustrine clay and silt. The glacial drift thickness varies between 100 and 400 feet. beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw Formation is used for brick making in other areas of the State. The nearest gravel pit is in Section 10 and potential in the compartment is considered good. Butman Field lies in the compartment. It has produced more than 360,000 BO primarily in from the Richfield. Two wells are still producing (not plugged). Most of the State Land in the compartment are leased for oil and gas exploration.

Vehicle Access:

The access is good with the extensive county and MDOT roads that boarder the compartment. There are also a few two-tracks that give access to the interior of the compartment. The exceptions are the land locked 40s west of M-30.

Survey Needs:

There are a few areas that need to be surveyed to locate private lines. There is a least one fence trespass in the compartment. The trespass is in Section 1 of T20N R01W.

Recreational Facilities and Opportunities:

The Midland to Mackinaw Hiking trail occurs in T20NR01ES 4,9,16 near forest or county roads. The Cross Country Cycle Motorcycle trail is on Drummond Road and Sugar River Roads. Dispersed recreation of hunting, waterfowl hunting, trapping and some fishing. Much of the interest is from adjacent private land owners or from those departing from the main state or county roads.

Fire Protection:

The compartment is heavily fragmented and most of the private land is in small tracts. Therefore, there is a high wildland to urban interface. The overall fire danger is low to moderate because of low concentration of fire prone species and abundant natural fuel breaks, and roads that will act as fuel breaks.

Additional Compartment Information:

There is extensive illegal use of ORVs and 4x4 trucks in the northern portion of the compartment. The trails are recorded as closed but are still being used. There is also evidence of new trails being made especially in the shelterwood oak harvest along M-30 and the block of State Land south of Finkbeinder Rd.

The 40s west of M-30 are land locked and should be put up for disposal.

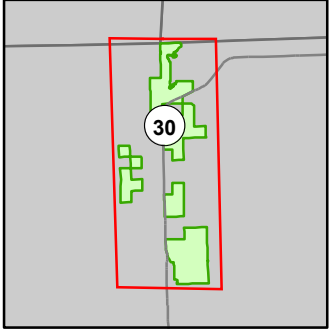
The following reports from the Inventory are attached:

- 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**

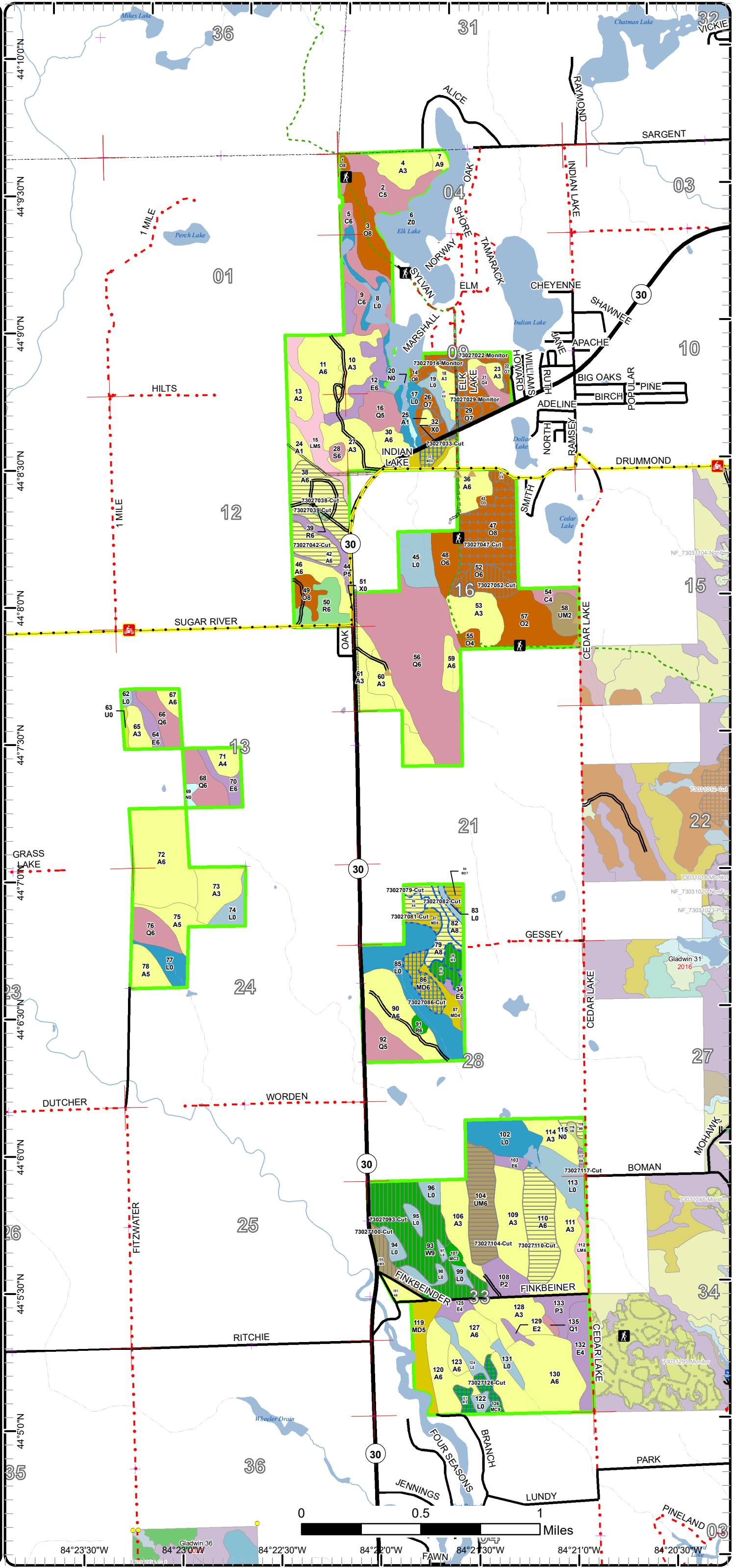
The following information is displayed, where pertinent, on the attached compartment maps:

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

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 T20N R01E Sec. 04,09,16,21,22,28,33
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 Examiner: Steve Nyhoff
 Map Revised: 6/4/2021

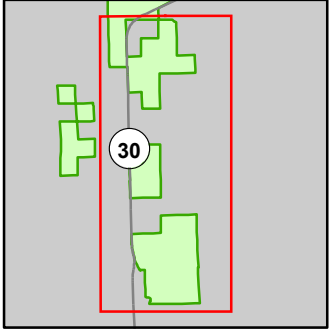


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- - - County - Gravel Road
- Hiking Trails
- MCCCT Trails
- Designated Hiking Trails
- ORV License
- Michigan Cross Country Cycle Trail (MCCCT)
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- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
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- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
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- 623 - Emergent Wetland
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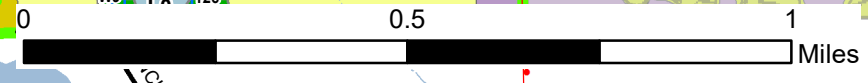
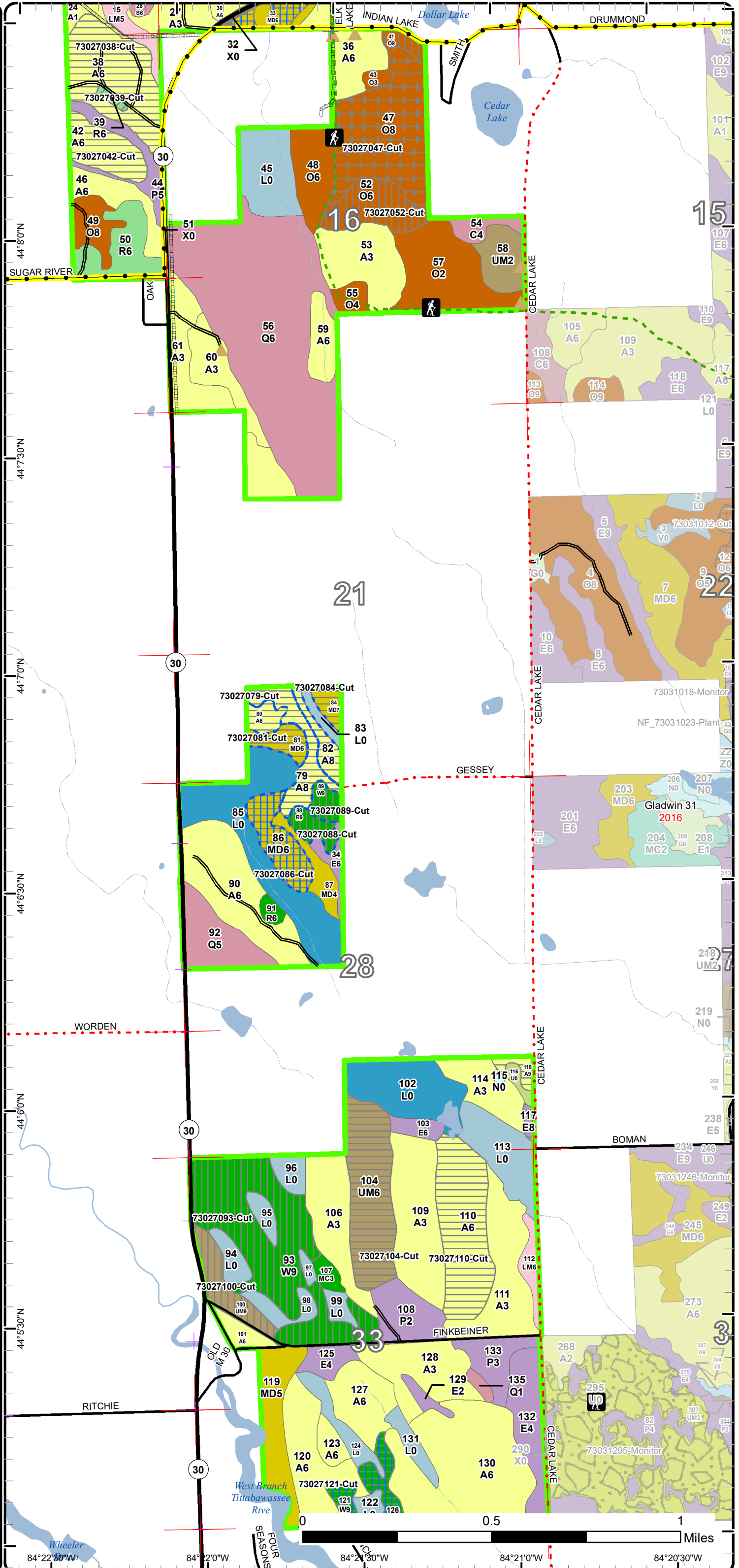


Cover Type & Treatments Map

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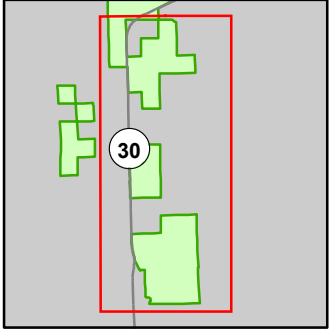
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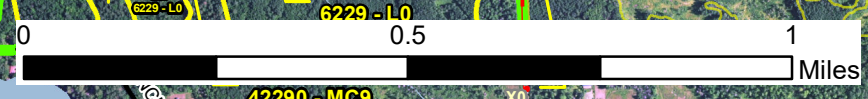
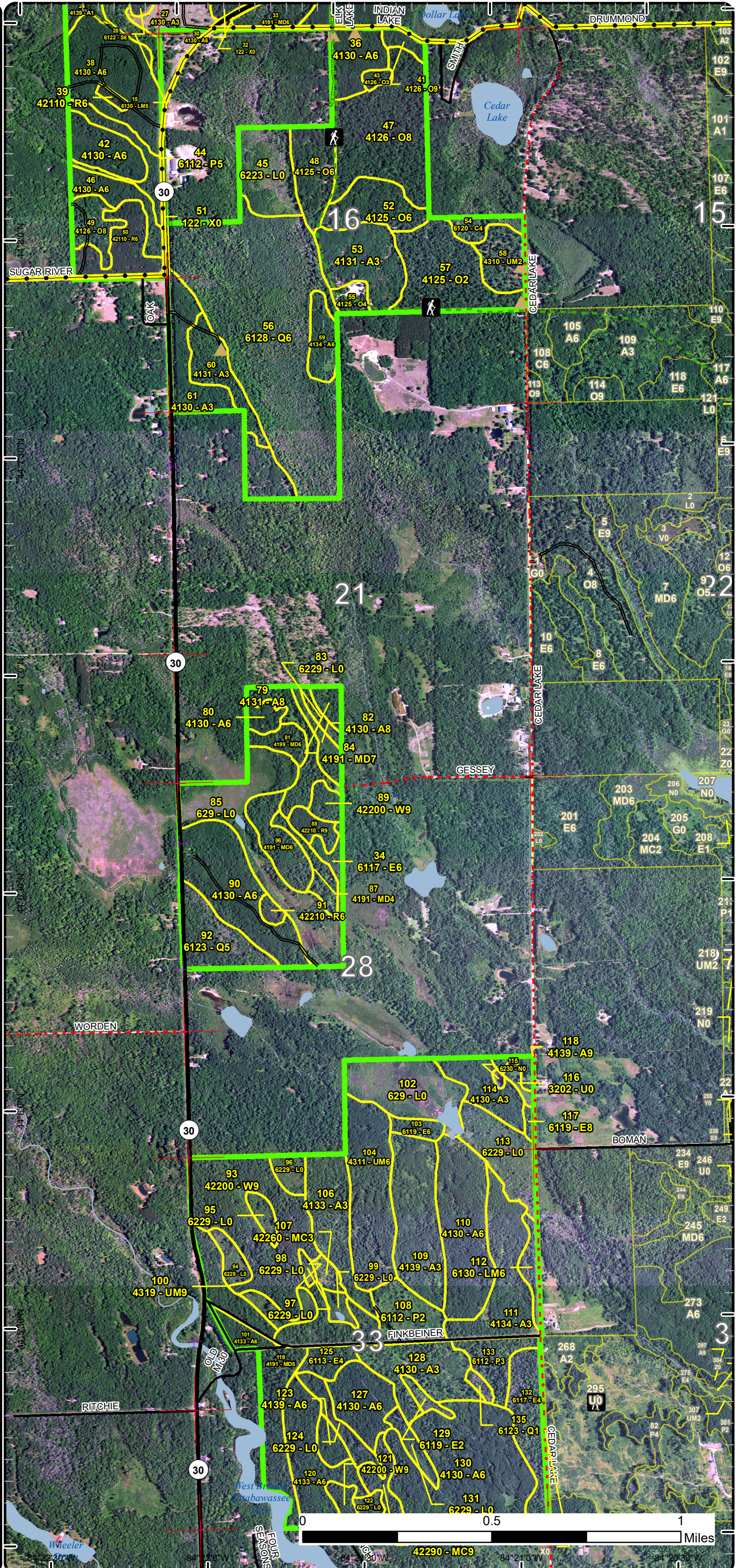
84°22'30"W 84°22'0"W 84°21'30"W 84°20'30"W

Stand Boundary Map

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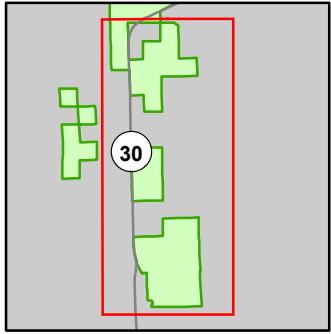


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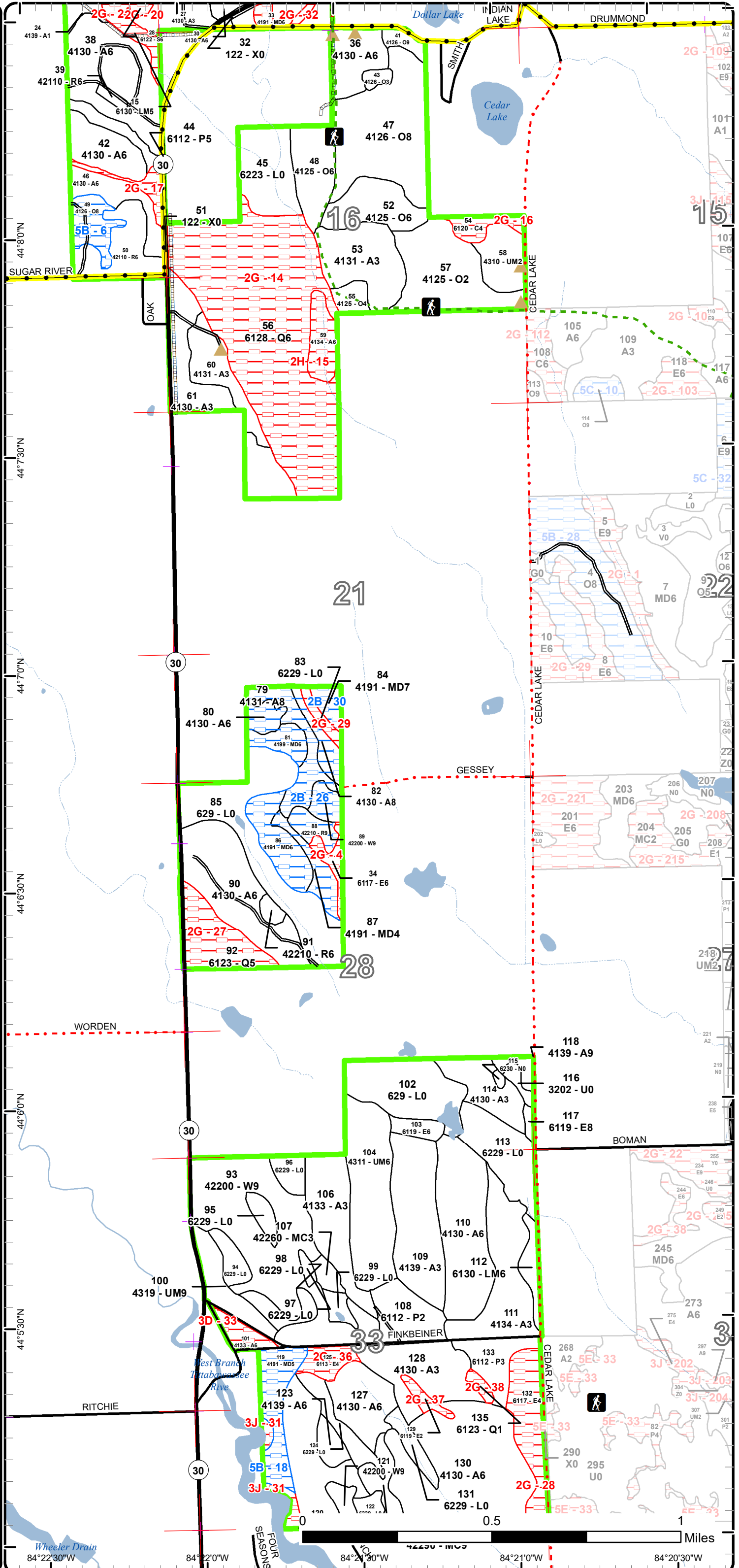


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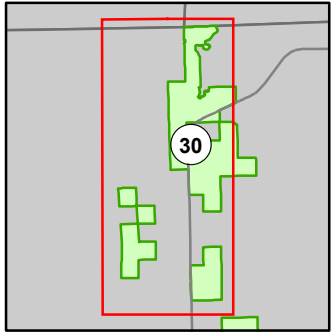


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- 5B: Maintain for regeneration purposes
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 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
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- Stand Boundaries

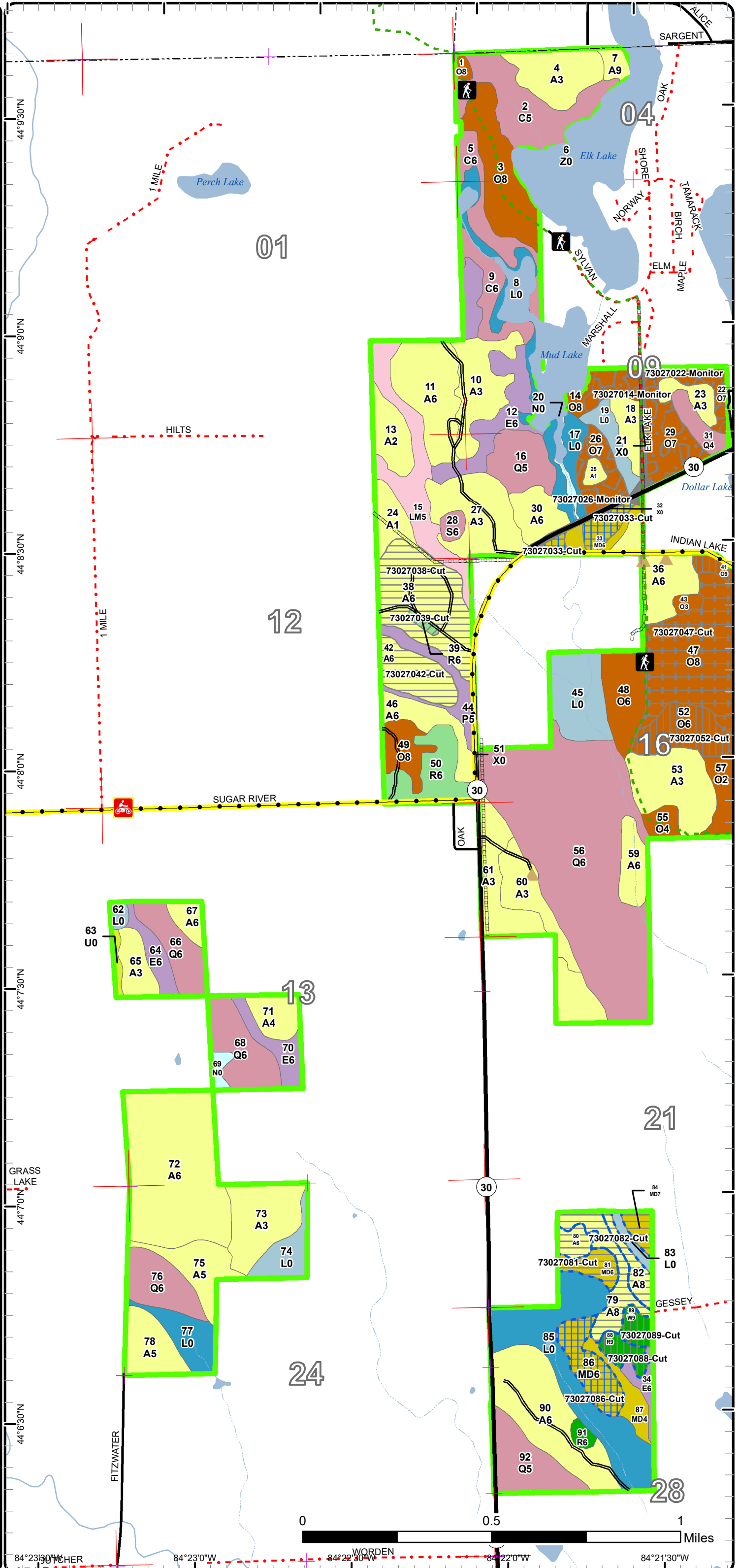


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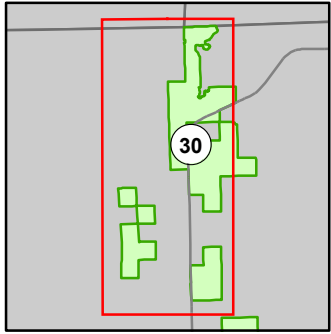
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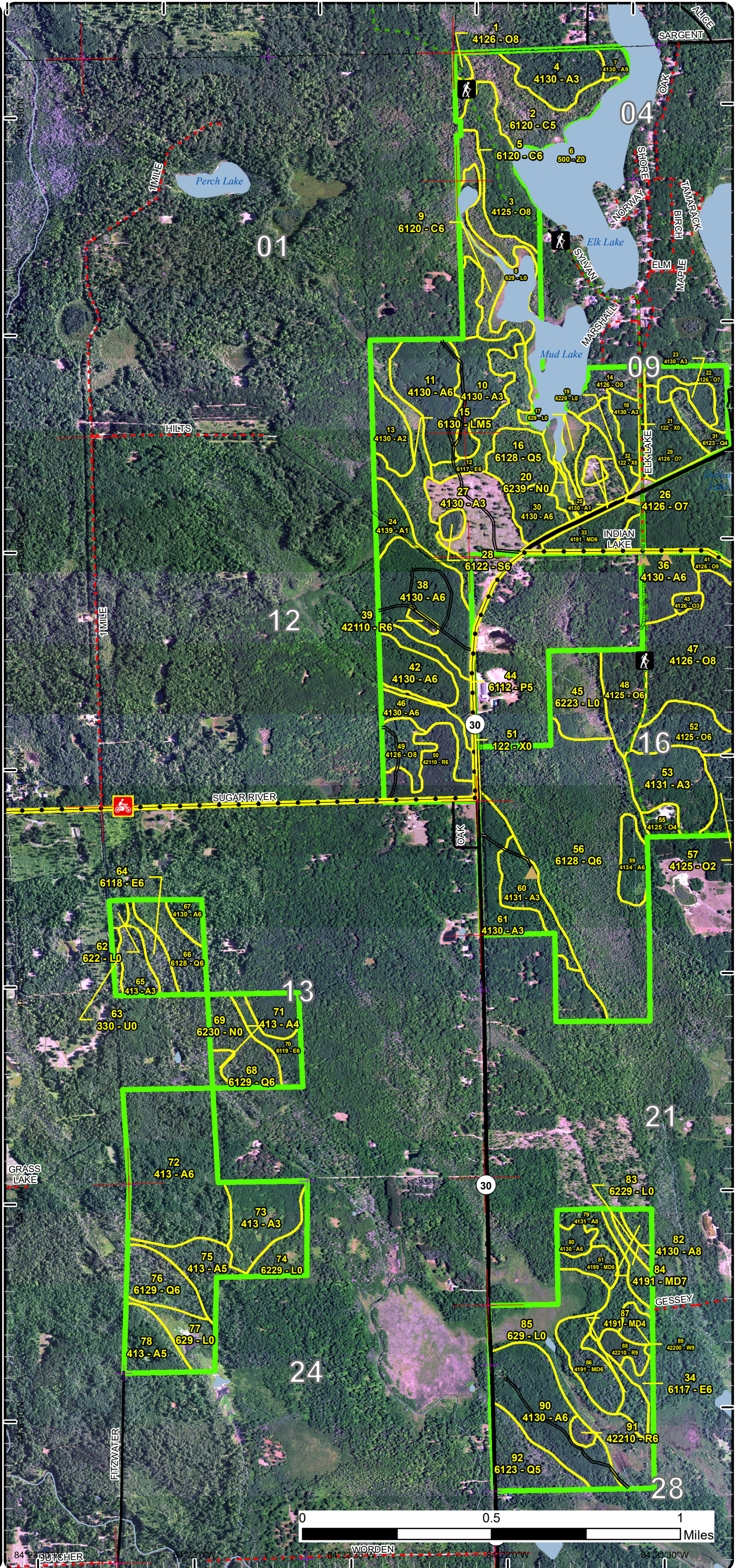
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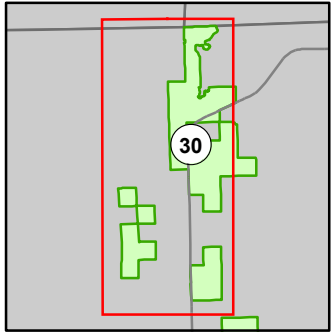


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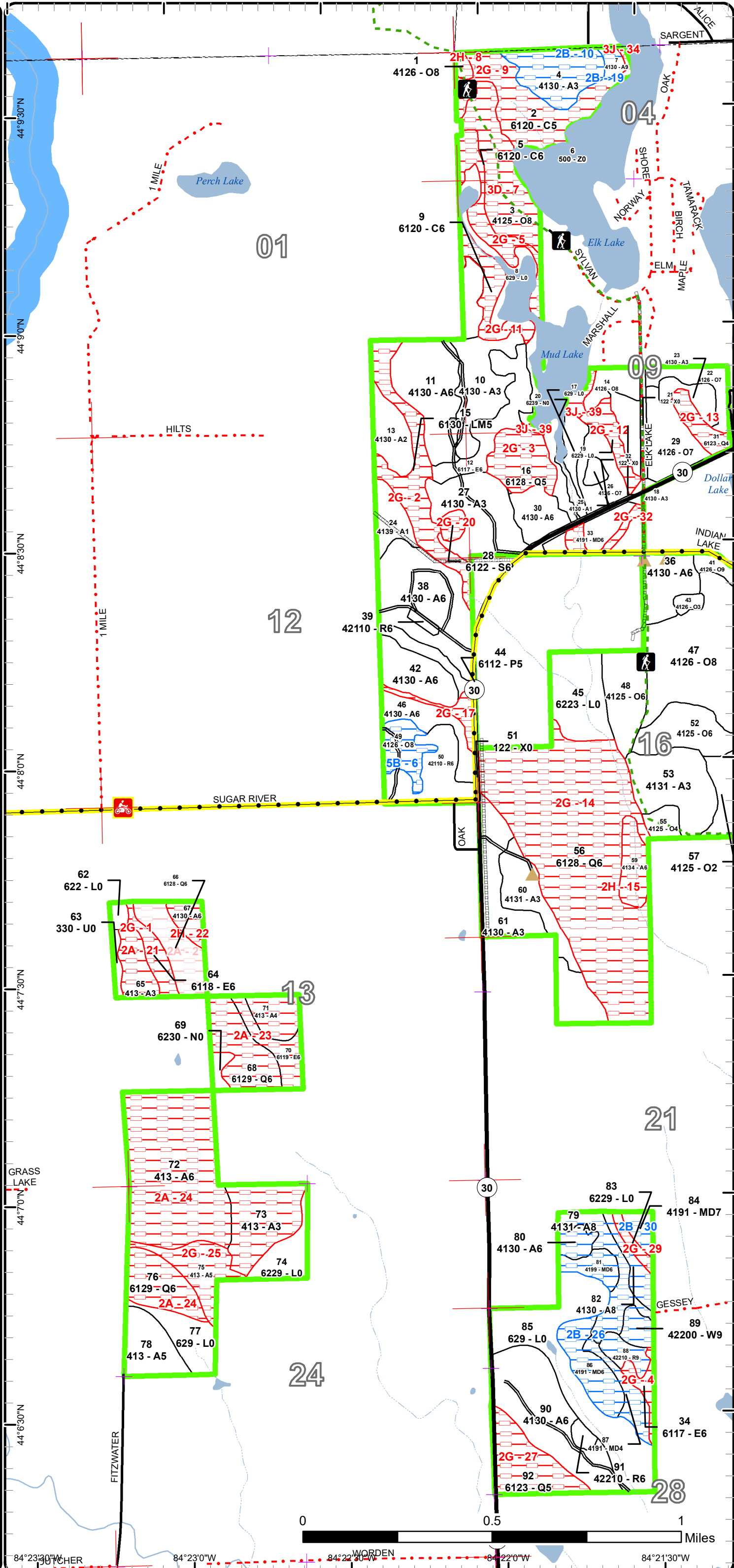


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- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



84°23'30"W 84°23'00"W 84°22'30"W 84°22'00"W 84°21'30"W

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	46	68	290	83	234	0	10	5	23	18	0	0	0	0	0	0	0	776
Cedar	0	0	0	0	0	0	0	0	0	0	0	6	24	30	0	0	0	0	60
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	0	27	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	38
Lowland Conifers	0	0	0	2	0	20	7	0	0	0	48	15	0	0	0	0	0	124	215
Lowland Deciduous	0	3	0	5	0	0	0	24	0	12	36	0	0	0	0	0	0	0	79
Lowland Mixed Forest	0	0	0	0	0	6	0	0	26	0	0	0	0	0	0	0	0	0	32
Lowland Shrub	218	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	218
Lowland Spruce/Fir	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	14	0	0	7	31	12	0	0	0	0	0	0	0	64
Natural Mixed Pines	0	0	0	3	0	0	0	0	0	0	8	0	0	0	0	0	0	0	11
Oak	0	35	0	0	0	17	0	17	0	0	93	32	9	0	0	0	0	5	206
Red Pine	0	0	0	0	0	22	0	5	0	0	0	0	0	0	0	0	0	0	27
Upland Mixed Forest	0	0	12	0	0	36	13	0	0	0	0	0	0	0	0	0	0	0	61
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	66	0	5	0	4	0	0	0	0	0	0	0	75
Total	242	84	107	300	83	360	86	59	43	66	219	53	33	30	0	0	0	129	1889



Report 2 – Treatment Summary

Gladwin Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 27

Total Compartment Acres: 1,891

Commercial Harvest - 296
 Harvests with Site Condition - 58
 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	115	0	0	0	0	0	0	0	0	115
Lowland Deciduous	2	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	11	0	0	21	0	0	0	0	0	32
Natural Mixed Pines	0	0	0	8	0	0	0	0	0	8
Oak	0	0	0	0	21	0	47	0	0	68
Red Pine	0	0	0	0	5	2	0	0	0	7
Upland Mixed Forest	36	0	0	0	13	0	0	0	0	49
White Pine	0	0	0	4	70	0	0	0	0	75
Total	163	0	0	34	109	2	47	0	0	354

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	354	0	0	0	0	0	41	0	0	395
Next Step	0	0	0	0	0	0	305	0	0	305
Total	354	0	0	0	0	0	346	0	0	700



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

Proposed Treatments:

14	73027014-Monitor	6.1	4126 - White, Black, N. Pin Oak	Sawtimber Medium	99	51-80	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> Check stand for adequate regeneration. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Medium stocking of oak with maple and pine <u>Regen:</u> <u>Other</u> If the stand does not regenerate harvest overstory and plant red pine. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
22	73027022-Monitor	8.9	4126 - White, Black, N. Pin Oak	Sawtimber Poor	111	1-50	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> check stand for establishment of oak seedlings <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> medium or better stocking of oak mixed with some aspen, maple, and pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
26	73027026-Monitor	10.6	4126 - White, Black, N. Pin Oak	Sawtimber Poor	92	1-50	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> check for adequate regeneration <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Medium or better stocking of oak mixed with maple and pine <u>Regen:</u> <u>Other</u> If the stand does not regenerate harvest overstory and plant red pine. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
29	73027029-Monitor	15.3	4126 - White, Black, N. Pin Oak	Sawtimber Poor	92	1-50	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> check stand for establishment of oak seedlings <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> medium or better stocking of mixed oak with maple and aspen <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <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
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33	73027033-Cut	7.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	97	51-80	Harvest	Seed Tree with Retention	4199 - Other Mixed Upland Deciduous	Two-Aged	No
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Prescription The area east of the drainage could be cut as a shelter wood taking the BA down to 30 sq. ft. If it is harvested, make sure to cut the trees along the road to avoid future dead fall into the roads.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable medium stocking of oak, maple, pine, and aspen.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

38	73027038-Cut	35.6	4130 - Aspen	Poletimber Well	46		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest the stand as a clear cut with retention. The retention should be in pockets and not exceed 5% by area.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium or better stocking of aspen

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

39	73027039-Cut	1.6	42110 - Planted Red Pine	Poletimber Well	44	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Harvest the stand as a thinning. The rows are narrow so harvest by cutting 2 rows and leaving 3. There is not enough volume to sell the stand separately, so harvest it with stand 38.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

41	73027041-Cut	3.7	4126 - White, Black, N. Pin Oak	Sawtimber Well	101	81-110	Harvest	Shelterwood	412 - Oak Types	Two-Aged	No
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Prescription Harvest the stand as a shelterwood taking the BA down to 40. The retention should favor oak and cavity trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable medium stocking of oak mixed with some maple and aspen

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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42	73027042-Cut	14.6	4130 - Aspen	Poletimber Well	42	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest as a clear cut with retention. The retention should be in pockets and try to place them to protect some of the low wet ground. The access to the stand is better from the north. The drainage is more of a broad swale.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: medium or better stocking of aspen mixed with some oak and maple

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

47	73027047-Cut	47.3	4126 - White, Black, N. Pin Oak	Sawtimber Medium	96	1-50	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
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Prescription Harvest the stand as an overstory removal retaining about 10 sq. ft. of oak. The retention should favor white oak.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Medium or better stocking of oak mixed with maple, aspen, and pine

Other Comment: The Midland to Mackinac Hiking trail goes up the west side of the stand. The trail needs to be kept clear of debris.

Site Condition

Proposed Start Date: 10/1 /2022

52	73027052-Cut	17.0	4125 - Black, N. Pin Oak	Poletimber Well	63	51-80	Harvest	Shelterwood	412 - Oak Types	Two-Aged	No
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Prescription Harvest the stand as a shelter wood by removing the aspen and thinning the stand down to 40 BA. The retention should focus on the oak and pine. There are both red and white pines and there are also white and red oaks.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Medium stocking of oak, aspen with some maple and pine

Other Comment: The Midland to Mackinac Hiking trail goes up the west side of the stand. The trail needs to be kept clear of debris.

Site Condition

Proposed Start Date: 10/1 /2022

79	73027079-Cut	13.6	4131 - Aspen, Oak	Sawtimber Medium	83	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription The stand could be habitat cut if a commercial harvest is not feasible. It will regenerate to a mixed stand of mixed oak, maple, with some aspen and pine. It has a decent oak understory. The retention should be individual marked oak and pine not to exceed 20 BA..

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Medium or better stocking of aspen, oak, pine, and maple

Other Comment:

Site Condition Unknown Access

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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80	73027080-Cut	4.5	4130 - Aspen	Poletimber Well	61	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription The stand should be cut to maintain the aspen type. It could be habitat cut if a commercial harvest is not feasible. When the stand is harvested it will regenerate as a mixed stand which is acceptable.

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

Acceptable medium stocking or better of aspen mixed with some oak, maple, and pine.
Regen:

Other
Comment:

Site Condition Unknown Access

Proposed Start Date: 10/1 /2022

81	73027081-Cut	6.3	4199 - Other Mixed Upland Deciduous	Poletimber Well	83	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription The stand could be habitat cut if commercial harvest is not feasible. The harvest should be a seed tree retaining 20 BA of oak and pine for seed. The stand should regenerate to oak, maple, with some pine and aspen.

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

Acceptable medium or better stocking of aspen, maple, and oak mixed with some conifer.
Regen:

Other
Comment:

Site Condition Unknown Access

Proposed Start Date: 10/1 /2022

82	73027082-Cut	5.9	4130 - Aspen	Sawtimber Medium	83	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription The stand could be habitat cut if a commercial harvest is not feasible. The harvest is needed to maintain any amount of aspen. It will convert to a mixed oak and maple stand if not harvested. The understory will take over the stand.

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

Acceptable medium or better stocking of aspen, oak, maple and conifer.
Regen:

Other
Comment:

Site Condition Unknown Access

Proposed Start Date: 10/1 /2022

84	73027084-Cut	4.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	80	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription The stand could be habitat cut if a commercial harvest is not feasible. It will regenerate to a mixed stand of mixed oak, maple, with some aspen and pine. It has a decent oak understory. The retention should be individual marked oak and pine not to exceed 20 BA..

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

Acceptable Aspen mixed with oak, pine and maple to a medium or better stocking.
Regen:

Other
Comment:

Site Condition Unknown Access

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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86	73027086-Cut	13.9	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	42	81-110	Harvest	Seed Tree with Retention	4199 - Other Mixed Upland Deciduous	Two-Aged	No
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Prescription If access could be gained harvest the stand as a seed tree harvest retaining around 20BA of pine and oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable medium or better stocking of pine and hardwoods

Regen:

Other

Comment:

Site Condition Unknown Access

Proposed Start Date: 10/1 /2022

88	73027088-Cut	5.3	42210 - Natural Red Pine	Sawtimber Well	65	111-140	Harvest	Shelterwood	429 - Mixed Upland Conifers	Two-Aged	No
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Prescription The stand could be harvested if we could get access. The stand should be shelter wood taking the BA down to 40.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable medium or better stocking of pine.

Regen:

Other

Comment:

Site Condition Unknown Access

Proposed Start Date: 10/1 /2022

89	73027089-Cut	4.6	42200 - Natural White Pine	Sawtimber Well	71	111-140	Harvest	Shelterwood	4220 - Natural White Pine	Uneven-Aged	No
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Prescription If access could be gained, the stand should be shelter wood harvested taking the BA down to around 60 BA. The terrain is hummocky and there could be some wet spots in here. At the current time it is hard to tell exactly how wet the stand is. Therefore, the harvest acres may be less than inventory acres.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable medium or better stocking of pine.

Regen:

Other

Comment:

Site Condition Unknown Access

Proposed Start Date: 10/1 /2022

93	73027093-Cut	65.5	42200 - Natural White Pine	Sawtimber Well	58	111-140	Harvest	Shelterwood	429 - Mixed Upland Conifers	Two-Aged	No
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Prescription The stand could be harvested as a shelter wood in the white pine areas taking it down to 50 or 60 sq. ft. In the areas of red pine harvest as a seed tree taking it down to 20 sq. ft. The retention should favor the larger white and red pines.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable medium or better stocking of pine mixed with hardwoods

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	100 73027100-Cut	12.7	4319 - Mixed Upland Forest	Sawtimber Well	54	111-140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> The stand could be treated as a shelter wood taking the BA down to 60 sq. ft. When marking make sure to clear 50' from the clear portion of the roads. This is to lessen the problem of trees falling into the roads.</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> medium or better stocking of pine mixed with hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
	104 73027104-Cut	36.0	4311 - Pine, Aspen Mix	Poletimber Well	42	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> The stand could be treated by cutting hardwood and keeping some of the red and white pine for retention and seed source. The retention should not exceed 20 BA. The harvest should be done 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</u> medium stocking of aspen mixed with hardwoods and conifers.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
	110 73027110-Cut	37.2	4130 - Aspen	Poletimber Well	42	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> The stand could be treated as a clear cut with retention. The harvest should be done 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</u> medium or better stocking of aspen mixed with hardwoods.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
	117 73027117-Cut	1.5	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	88	51-80	Harvest	Clearcut	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> The stand could be harvested as a clear cut without retention because of the small size. There may be a small portion of the stand that will not be able to be cut because it is too wet. The amount of the stand that cannot be cut will have to be determined after the snow melts. It is hard to tell right now with the snow cover.</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> medium or better stocking of mixed species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
118 73027118-Cut	3.1	4139 - Aspen, Mixed Deciduous	Sawtimber Well	88	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> The stand is undulating, and wet areas are along the edges. It could be harvested as a clear cut with retention. When harvesting do not leave any area retention within 50' of Cedar Lake Road.</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> medium or better stocking of aspen, hardwoods, and pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
121 73027121-Cut	4.4	42200 - Natural White Pine	Sawtimber Well	93	111-140	Harvest	Seed Tree with Retention	4220 - Natural White Pine	Two-Aged	No
<p><u>Prescription</u> The stand could be harvested as a seed tree retaining a mixture of white and red pine. The retention should be around 20 BA.</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> medium or better stocking of pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
126 73027126-Cut	8.2	42290 - Natural Mixed Pine	Sawtimber Well	93	111-140	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Two-Aged	No
<p><u>Prescription</u> The aspen in the stand needs to come out. Therefore, harvest as a seed tree retaining around 30 BA of pine.</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> medium or better stocking of pine and hardwoods.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 394.7

Report 4 – Site Conditions

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Compartment: 27
Year of Entry: 2023

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

2B 5B 2A 2G 2H 3D 3J

777	591	45	140	Aspen	45		105	14	15	5	1
60	0	0	60	Cedar	0			60			
2	2	0	0	Low-Density Trees							
38	33	0	5	Lowland Aspen/Balsam Poplar				5			
215	0	0	215	Lowland Conifers			48	168			
79	29	0	50	Lowland Deciduous			9	41			1
32	6	0	26	Lowland Mixed Forest				26			
218	208	0	10	Lowland Shrub				10			
3	0	0	3	Lowland Spruce/Fir				3			
6	6	0	0	Marsh							
64	7	48	9	Mixed Upland Deciduous	32	16		4			4
11	11	0	0	Natural Mixed Pines							
207	166	10	31	Oak		10		0	2	27	3
27	22	5	0	Red Pine	5	0					
61	61	0	0	Upland Mixed Forest							
2	2	0	0	Upland Shrub							
10	10	0	0	Urban				0			
4	4	0	0	Water							
75	70	5	0	White Pine	5						
1,891	1,229	113	549	Total Forested Acres	87	26	161	330	16	32	9
	65%	6%	29%	Relative Percent							

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

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2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Very wet site. Areas of cattails and marsh grass. Areas of blowdown. Smaller diameter timber. Drainage bi-sects stand. Too wet for any commercial harvest. BMP/RMZ							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: No treatment. Overstory is dominated by big wolfy trees, good wildlife stand, stand is regenerating to oak on its own.							
7	Unavailable	3D: Recreational / Scenic values	27	2B: Unknown if access through adjacent landowner(s) is possible	5B: Maintain for regeneration purposes	Unspecified	Unspecified
Comments:							

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8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	2B: Unknown if access through adjacent landowner(s) is possible	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	124	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5B: Maintain for regeneration purposes	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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19	Available	2B: Unknown if access through adjacent landowner(s) is possible	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2A: Adjacent landowner denied access	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2A: Adjacent landowner denied access	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2A: Adjacent landowner denied access	103	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	2B: Unknown if access through adjacent landowner(s) is possible	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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30	Available	2B: Unknown if access through adjacent landowner(s) is possible	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: Very wet in places. Stand is extremley visable from all sides, stand is in a triangle between three different roads - M-30,Elk Lake Road and Indian Lake Drive. Small creek bi-sects stand. Species composition varies.							
33	Unavailable	3D: Recreational / Scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Steve Nyhoff : Examiner

Compartment: 27
Year of Entry: 2023

37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	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
-------------------	------	-------------



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
1	4126 - White, Black, N. Pin Oak	Sawtimber Medium	1.7	100	51-80	N/A	The stand is on a knob. It is a very small stand with access issues. It is surrounded by cedar and private land. The Midland to Mackinac Hiking trail goes through the stand.																																										
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2	6120 - Lowland Cedar	Poletimber Medium	29.6	120	81-110	N/A	The stand is a dense cedar stand with significant blow down. There are now canopy gaps. The stand borders Elk Lake. There is a small creek that bisects it.																																										
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3	4125 - Black, N. Pin Oak	Sawtimber Medium	26.7	100	51-80	N/A	The stand borders Elk Lake. The only access for commercial harvest is across private. There is a heavy concentration of cabins and homes within view across the lake from this stand. There is a valley in the south-central part of it. Manage the stand for oak. Currently retain for visual along Elk Lake. The stand is mainly oak, and it is starting to decline in some spots making canopy gaps. It is also heavily used for recreation both hiking, snowmobiles, and quads use. The Midland to Mackinac Hiking trail goes through the stand.																																										
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4	4130 - Aspen	Sapling Well	18.7	17	1-50	N/A	The stand has 10 to 20 sq. ft. of mixed hardwood in the overstory. It was cut in 2004. It has very good aspen regeneration. There are a couple of small areas within the stand that were not cut.																																										
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5	6120 - Lowland Cedar	Poletimber Well	13.3	119	51-80	N/A	The stand borders a small creek, Lost Lake, and Mud Lake. The ash is now on the ground. The crown closure is still above 75% but not by much. The understory is seeding in with balsam fir.																																										
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6	500 - Water	Nonstocked	3.6		Immature	No	The stand is part of Elk Lake.																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
7	4130 - Aspen	Sawtimber Well	3.9	94	Unspecified	N/A	The entire stand is on the slope above Elk Lake. The stand has an understory of oak, maple, and aspen. The aspen overstory is dying off and it is converting to mixed hardwood.																																																		
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8	629 - Mixed non-forested wetland	Nonstocked	20.5			No	The stand consists of Lost Lake, a part of Mud Lake, and the small creek between the two lakes. The drainage is a mix of lowland shrubs, non-forested wetlands, emergent wetlands, and water.																																																		
9	6120 - Lowland Cedar	Poletimber Well	11.0	119	81-110	N/A	The stand borders Mud Lake, Lost Lake, and a small creek. The ash in the stand is now on the ground. The crown closure is still above 75%. The understory is seeding in with balsam fir. The fir is dense in some areas																																																		
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10	4130 - Aspen	Sapling Well	20.2	23	1-50	N/A	The stand was clearcut in 1998. It has regenerated well. It is transitioning into pole size timber. The terrain is undulating, and it is along Mud lake. There is a good component of oak in the under story and some of it has reached the over story. There is less aspen along the east																																																		
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11	4130 - Aspen	Poletimber Well	27.0	35	81-110	N/A	The stand was clearcut in 1986. It is now a pole stand with a decent understory of oak. The diameter is a little small. It is not a good candidate for early harvest. In addition, the west edge is a little wet.																																																		
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Aspen (spp.)	Full	Variable	Sapling																																																						
12	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	24.2	68	81-110	N/A	The species composition varies. The stand has inclusions of small, scattered pockets of lowland shrubs. The ash that was in the stand has died and is on the ground. The crown closure is variable going from around 25% to 100%. There appears to be a fence trespass along the south line. Survey may be needed to establish the private line.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
13	4130 - Aspen	Sapling Medium	11.1	3	Immature	N/A	The stand had a selective clearcut in 1976. Some residual oak, red maple, and aspen were left. It was then clearcut in 2017, in M-30 Split Harvest, sale 73-001-15. The stand has regenerated well. At the current time the crown closure averages 60%. There are a few areas that the crown closure is less than 25%, but they are only small pockets usually associated with the residual oak.																																								
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14	4126 - White, Black, N. Pin Oak	Sawtimber Medium	9.7	99	51-80	N/A	In 1995 the stand had all the aspen and maple removed. The stand was then harvested as a shelterwood in 2016, in M-30 Split Harvest, sale 73-001-15. The retention was about 60 sq. ft. When the sale was put up. The sale boundary was kept back 100' from Elk Lake. The Oak Regeneration is not established yet though it is present when the stand was inventoried.																																								
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15	6130 - Fir, Aspen, Maple	Poletimber Medium	25.8	70	51-80	N/A	The stand is a creek/drainage corridor. In the pass there has been some beaver activity leaving some pockets of lowland shrubs. The ash in the stand has died out making other areas non-forested. Overall, the crown closure is right around 65%. The stand is a broad base drain. It is too wet to harvest, and it is a RMZ stand that protects the water shed.																																								
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16	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	15.1	106	51-80	N/A	The stand has a lot of blow down, especially along stand 27. The crown closure is now a little below 75%. It is less than 25% along the cut edge. The stand is too wet to harvest. It also has some BMP/RMZ concerns.																																								
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17	629 - Mixed non-forested wetland	Nonstocked	10.8		Unspecified	No	This stand is the lowlands that flank a creek																																								
18	4130 - Aspen	Sapling Well	6.9	23	Immature	N/A	The stand was clear cut in 1998. It has regenerated well. The terrain is a little hummocky and there are some small low wet pockets. Most of the lower ground is along stand 19 and at the north end. Overall, the stem density is very good.																																								
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19	6229 - Mixed lowland shrub	Nonstocked	7.0		Immature	No	The stand is wet. The ash that was in the stand is gone. The birch is also in sorry shape. Most of it is dead as well. There are some scattered cedars and balsam firs. The stand also has areas of marsh grass and cattails.																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
20	6239 - Mixed Emergent Wetland	Nonstocked	2.8			No	The stand has a creek which flows from Mud Lake. There has been some past beaver activity, but it is minimal at the current time.																																									
21	122 - Road/Parking Lot	Nonstocked	3.1		Immature	No	This is Elk Lake Road and the cleared right of way.																																									
22	4126 - White, Black, N. Pin Oak	Sawtimber Poor	8.9	111	1-50	N/A	The stand was harvested in 1995 having all the maple and aspen removed. It was then shelterwood harvested in 2016, in M-30 Split Harvest, sale 73-001-15. The residual was around 30 sq. ft. The regeneration from the last harvest is not established. The stand will need to be checked in 2024 to see if the oak regeneration has become established.																																									
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23	4130 - Aspen	Sapling Well	5.9	23	Immature	N/A	The stand was clear cut in 1998. The regeneration is well established despite the illegal activity. Most of it looks to be 4x4 trucks and ORVs.																																									
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24	4139 - Aspen, Mixed Deciduous	Sapling Poor	8.5	3	Immature	N/A	The stand was clearcut in 2017, in M-30 Split Harvest, sale 73-001-15. It is mostly upland with wet pockets. The density is variable. There are areas thick to red maple and areas thick to aspen. The terrain is hummocky. The stand looks like it will eventually be moderate to fully stocked. There is a decent fence along the east boundary along the nine-point hunt club.																																									
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25	4130 - Aspen	Sapling Poor	2.2	24	Immature	N/A	The stand is an old borrow pit from when M-30 was built. It is filling in with aspen, but the stand appears to have a very low site index. Even though the aspen is 24 years old most of it is still small saplings with very poor form.																																									
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26	4126 - White, Black, N. Pin Oak	Sawtimber Poor	10.6	92	1-50	N/A	All but the live oak was removed in 1986. In 2016 the stand was shelter wood harvested, in M-30 Split Harvest, sale 73-001-15. The harvest retained 20 sq. ft. of oak and all the white pine and scattered hardwoods. The stand has some oak regeneration from the last harvest. However, it is not 4' tall yet, so it is not established.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
27	4130 - Aspen	Sapling Well	25.7	4	Immature	N/A	The stand was cut in 1973. The oak and some aspen were left. The stand was then clearcut in 2016, in M-30 Split Harvest, sale 73-001-15. It is a highly visible stand along M-30. It has regenerated well to aspen mixed with some oak. There are some scattered overstory pine.																																																						
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28	6122 - Black Spruce	Poletimber Well	2.8	69	81-110	N/A	The stand is in a depression and is mostly black spruce. There are some scattered tamarack, maple, oak, and birch. Overall, the stand is too wet to harvest.																																																						
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29	4126 - White, Black, N. Pin Oak	Sawtimber Poor	15.3	92	1-50	N/A	The stand was harvested by removing all species except live oak in 1988. There is excellent advance regeneration of aspen, oak, and red maple from the harvest. Regeneration is 10' to 30' tall. It was then Shelterwood harvested in 2016, in M-30 Split Harvest, sale 73-001-15. The stand is showing signs of regenerating from the 2016 harvest, but the oak is not established. It looks like it will become established within the next few years. Schedule the stand for a monitor check for 2024 to check if the oak gets established. The Stand has significant abuse by four-wheel drive pickups and ORVs.																																																						
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30	4130 - Aspen	Poletimber Well	9.9	35	51-80	N/A	The stand was clearcut in 1986. When it was harvested some of the oaks were left. Overall, the stand is about a 50 to 50 mix of uplands in lowlands. The uplands are along the east side and it is heavy to oak, maple, and aspen. The rest of the stand is a lowland aspen type with a lot of blow down. The ash that was in the stand has died off. There is a lot of down debris. The crown closure is still above 75% but not by much.																																																						
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31	6123 - Lowland Fir	Poletimber Poor	6.5	56	1-50	N/A	The ash in the stand is gone. The crown closure goes from about 15% at the north end and up to 60% along M30. The balsam fir has the highest density near M30. The variance in the canopy closure is directly related to the ash die off.																																																						
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32	122 - Road/Parking Lot	Nonstocked	6.3			No	The stand is M-30 and the cleared right of way.																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
33	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	11.6	97	51-80	N/A	The stand is very wet in places. It is extremely visible from the roads on all sides. It lays between M-30, Elk Lake Road, and Indian Lake Drive. There is a small creek that bisects the stand. Species composition varies. The west end of the stand is the wettest and is a mix of lowland conifer and white pine. The east end is dryer and is an oak type. The area east of the drainage could be cut as a shelter wood taking the BA down to 30 sq. ft. If it is harvested, make sure to cut the trees along the road to avoid future dead fall into the roads.																																															
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34	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	4.5	25	51-80	N/A	The stand is to the east of stand 87 which is a ridge. It looks hummocky and wet. The understory is thick maple sapling. The quaking aspen does not look all that healthy. This area is landlocked by private land and a creek.																																															
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36	4130 - Aspen	Poletimber Well	17.8	26	1-50	N/A	The stand was clear cut in 1995. The harvest left scattered oak along the road. The stand is currently transitioning into poles. The Michigan to Mackinac Hiking trail runs along the west edge of the stand.																																															
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38	4130 - Aspen	Poletimber Well	35.6	46		N/A	The stand is highly visible along M-30. The trees are vigorous.																																															
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39	42110 - Planted Red Pine	Poletimber Well	1.6	44	111-140	N/A	The red pine was planted in an old borrow pit when M-30 was built. The soil is nothing but blow sand. The topsoil was never restored.																																															
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41	4126 - White, Black, N. Pin Oak	Sawtimber Well	3.7	101	81-110	N/A	The stand was left as a small buffer along private land and Indian Lake Road. It has some regeneration. The overstory is starting to decline.																																															
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42	4130 - Aspen	Poletimber Well	14.6	42	51-80	N/A	The stand was clear cut in 1978. It is currently a nice pole stand. It is also on a ridge surrounded by a broad base drain and private land. There are some pockets of low wet ground.																																								
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43	4126 - White, Black, N. Pin Oak	Sapling Well	2.1	8	Immature	N/A	The stand is now thick with oak regeneration. There are some scattered larger oaks.																																								
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44	6112 - Lowland Aspen	Poletimber Medium	11.1	45	51-80	N/A	The stand is a drainage that is mostly forested. There has been past beaver activity, so there are areas that are non-forested. Currently there are no active floodings. The northern leg of the stand is well forested. It is wet but manageable. The south leg is where most of the water drains. It is about 50% forested. It is too wet to harvest. The cedar and balsam fir in the stand is near M30 and this area is very wet.																																								
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45	6223 - Inundated Shrub Swamp	Nonstocked	21.1			No	The stand is mainly marsh grass, tag alder, cattails with scatter pockets of trees. There is a creek that bisects the stand. There is evidence of past beaver activity but there are no active floodings.																																								
46	4130 - Aspen	Poletimber Well	11.5	42	51-80	N/A	The stand was clear cut in 1978. The aspen here is smaller than in the stand to the north. It probably should be held for another 10 years and then harvested with stand 52. There are scattered large oaks. The overstory oak are showing signs of decline. They are starting to break up.																																								
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47	4126 - White, Black, N. Pin Oak	Sawtimber Medium	47.3	96	1-50	N/A	The stand was shelter wood harvested in 2006. The harvest retained 40 sq. ft. of mixed oak. The stand now has a thick under story of oak and maple. The Michigan to Mackinac Hiking trail runs along the west edge of the stand.																																								
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48	4125 - Black, N. Pin Oak	Poletimber Well	16.5	41	51-80	N/A	The stand is now pretty much well stocked. It still has some semi-open areas. The crown closure is still on the low side of the 75 to 100% range. The overstory is mainly oak, and it varies from seedlings to logs. The component of log size oak could be cut but the damage to the residual would be extensive. The Michigan to Mackinac Hiking trail runs along the east edge of the stand.																																											
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49	4126 - White, Black, N. Pin Oak	Sawtimber Medium	9.8	92	51-80	N/A	The overstory is bigger wolfy oak with a decent oak regeneration throughout. The development of the oak regeneration is variable going from 3' tall to 30' tall. The stand is regenerating to oak on its own. The stand has a good mast production last year. There are deer and turkey signs all over the stand looking for acorns.																																											
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50	42110 - Planted Red Pine	Poletimber Well	17.9	45	111-140	N/A	The stand had a first-time row thinning in 2017, in M-30 Split Harvest, sale 73-001-15. It was planted in 1977. The stand makes a good buffer along M-30 and Sugar River Road. No survey corner was located at SW corner of stand. There is an older single wire fence along the west edge, the fence looks good to use for the private line.																																											
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51	122 - Road/Parking Lot	Nonstocked	0.9			No	This is M-30 and its cleared right-of-way.																																											
52	4125 - Black, N. Pin Oak	Poletimber Well	17.0	63	51-80	N/A	The stand has advanced oak regeneration that is reaching pole size along with the aspens.																																											
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53	4131 - Aspen, Oak	Sapling Well	24.7	15	Immature	N/A	The stand was clear cut in 2006. It is very dense. The central portion is heavy to oaks and the perimeter has the aspen. The species are well mixed overall so keep it as one stand. The Michigan to Mackinac Hiking trail runs along the west edge of the stand.																																											
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54	6120 - Lowland Cedar	Poletimber Poor	5.6	108	51-80	N/A	The stand is low and wet and is mainly cedar/ swamp hardwoods. There are some scattered white pine and tamarack. Much of the overstory has fallen over lowering the crown closure to less than 50%. The terrain is very hummocky. There is a thick understory of lowland shrubs.																																					
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55	4125 - Black, N. Pin Oak	Poletimber Poor	4.5	82	1-50	N/A	The stand is an old landfill site. The open areas in the stand are used by ORV as a scramble area. Most of the trees are in the south half of the stand. It is a mix of oaks and white pines. Some of the oaks have very large diameters. The Michigan to Mackinac Hiking Trail runs through the stand.																																					
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56	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	124.3	35	81-110	N/A	The stand is a mix conifer/hardwood swamp. There is a creek that bisects it. There are pockets of cedar through-out the stand. The understory consists of ash, maple, balsam fir, tag alder and Michigan holly. The overstory ash in the stand is dead and down. The balsam fir takes up most of the crown now. There is some cedar regeneration in the areas of heavy dead fall. The stand has some upland ridges in it																																					
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57	4125 - Black, N. Pin Oak	Sapling Medium	33.3	3	1-50	N/A	The stand was shelterwood harvested in 2006 which produced excellent oak regeneration. It was then harvested again as a seed tree harvest in 2017, in M-30 Split Harvest, sale 73-001-15. There was a small wet area at SE corner of stand that was painted out. There is a good private line along the south edge and the old blue paint is still noticeable. The stand has regenerated well from the last harvest. There are still areas of regeneration from the 2006 harvest which are still saplings. The overstory oak is declining but it is still present. The feature species now is the regeneration. The Michigan to Mackinac Hiking trail runs along the south edge of the stand.																																					
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58	4310 - Pine, Oak Mix	Sapling Medium	12.2	15	1-50	N/A	The stand was seed tree harvested in 2005 retaining 10 BA of mixed oak. The stand was interplanted to red pine in 2006. The prescription has worked very well. Currently the stand has an excellent mix of natural and artificial regeneration. The red pine is doing well in most of the stand. It is now 5-10 feet tall.																																					
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59	4134 - Aspen, Spruce/Fir	Poletimber Well	9.4	32	51-80	N/A	The stand was seed tree harvested in 2005 retaining 10 BA of mixed oak. The stand was interplanted to red pine in 2006. The prescription has worked very well. Currently the stand has an excellent mix of natural and artificial regeneration. The red pine is doing well in most of the stand. It is now 5-10 feet tall.																																													
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60	4131 - Aspen, Oak	Sapling Well	14.1	23	Immature	N/A	All but birch was cut in 1998. This left about 20 BA. The birch mortality is around 25%. The regeneration is nice underneath it. As the birch fades the stand will convert to aspen.																																													
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61	4130 - Aspen	Sapling Well	28.6	23	Immature	N/A	The stand was clear cut in 1998. The regeneration is coming along well. It is quite dense. Also, the stand has two pockets of conifers in the southern portion. The pockets are a mix of white pine, cedar, balsam fir, and hemlock. There is also some scotch pine in the southern conifer pocket.																																													
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62	622 - Lowland Shrub	Nonstocked	2.1			No	Remote: did not visit the site because of access. Old comments: Tag alder stand delineated out of stand 65 from last inventory. Some scattered red maple but very few. The stand has dense lowland brush.																																													
63	330 - Low-Density Trees	Nonstocked	2.2			No	Remote: did not visit the site because of access. Old comments: Some of the aspen regeneration from stand 65 has been filling into this stand. A two-track on the extreme west line is used by individuals to access the property to the south of this state 40.																																													
64	6118 - Lowland Deciduous with Cedar	Poletimber Well	6.9	97	81-110	N/A	Remote: did not visit the site because of access. Old comments: Mostly ash regeneration with some elm and red maple mixed. The elm is only getting to about 8 inches in diameter and dying off. There are also small pockets of cedar here but no cedar regeneration in the understory. There is also an intermittent stream flowing through the stand in a north/south direction. Too wet to harvest even in the coldest winter without causing damage to the stream.																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
65	413 - Aspen	Sapling Well	8.7	21	Immature	N/A	Remote: did not visit the site because of access. Old comments: Stand was final harvested in the winter of 1999/2000 with the "Lost Dog Sale" 057-97-01. It has fair to good regeneration. There is a small area on the south line where it is a little wetter and is coming back to red maple and not aspen.
66	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	14.0	97	81-110	N/A	Remote: did not visit the site because of access. Old comments: Heavy blow down in the northern end. Dense pockets of balsam fir in areas but majority is young ash. Keep cedar for deer cover. May eventually convert completely over to a lowland hardwood type. Flowing stream goes through the southern portion from stand 66.
67	4130 - Aspen	Poletimber Well	5.2	78	81-110	N/A	Remote: did not visit the site because of access. Old comments: The stand would benefit from a final harvest to stimulate the aspen regeneration but there is access problems. A wet cedar stand blocks the south and west sides while private property bounds the north and east. The stand could be habitat cut if commercial harvest is not feasible. The stand may not regenerate to aspen and become a mix of swamp hardwood. This mix would be acceptable or plant to jack pine if natural regeneration does not occur.
68	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	18.1	97	81-110	N/A	Remote: did not visit the site because of access. Old comments: Heavy blow down in the northern end. Dense pockets of balsam fir in areas but the majority is young ash. Keep cedar for deer cover. May eventually convert completely over to a lowland hardwood type.
69	6230 - Cattail	Nonstocked	2.6			No	Remote: This appears to be a cattail marsh.
70	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	8.8	91	81-110	N/A	Remote: did not visit the site because of access. Old comments: This stand is slightly wetter than stand 68. The topography slopes lower to the south into stand 71. The aspen component for the most part is dead and has little regeneration in the stand. The red maple has taken its place in both the overstory and understory. Based on the soil type/condition this is more of the lowland hardwood site than aspen.
71	413 - Aspen	Poletimber Poor	8.9	46	1-50	N/A	Remote: did not visit the site because of access. Old comments: Final harvested in 1975. Very good regeneration in the understory that is just shy of making poles. Little more oak and balsam fir on the north line. Has a small blueberry/sweet fern inclusion in the northeast.
72	413 - Aspen	Poletimber Well	64.8	46	111-140	N/A	Remote: did not visit the site because of access. Old comments: Cut in 1975. The northern part of the stand has a higher volume of oak and maple in the understory. There are pockets of dense balsam in places and several tag alder inclusions throughout the stand. These inclusions are very wet and have no merchantable timber growing in them.
73	413 - Aspen	Sapling Well	22.3	21	Immature	N/A	Remote did not visit the site because of access. Old comments: Good mix of both big tooth and trembling aspen. Final harvested in the winter 1999/2000.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																				
74	6229 - Mixed lowland shrub	Nonstocked	9.8			No	Remote: did not visit the site because of access. Old comments: Has some scattered red maples on the outer fringes.																				
75	413 - Aspen	Poletimber Medium	14.1	90	51-80	N/A	Remote: did not visit the site because of access. Old comments: Extremely wet in spots with lowland brush in the understory. The higher ground has a good mix of balsam fir. Very unlikely this could be harvested even in a very dry/cold period. It is influence by the beaver flooding to the south.																				
76	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	15.5	97	51-80	N/A	Remote: did not visit the site because of access. Old comments: young ash regeneration 1-2 inches in most of the understory. Several sheet flows/drains feeding into stand 77. Wetter than stand 72 for cutting. The stand has a high concentration of cedar in areas, but little to no cedar regeneration. Ash is taking its place. The stand has high deer numbers.																				
77	629 - Mixed non-forested wetland	Nonstocked	11.6		Immature	No	Remote: did not visit the site because of access. Old comments: Beaver flooding. Large dam but the dry period has lowered the water level quite substantially currently. Flowing stream straight through middle.																				
78	413 - Aspen	Poletimber Medium	14.2	44	1-50	N/A	Remote: did not visit the site because of access. Old comments: Final harvested in 1977 with patchy regeneration. There is about a three-acre grassy inclusion in the middle where the aspen is just now starting to fill in with some jack pine. The best aspen is on the south and east sides. Scattered oak throughout the stand.																				
79	4131 - Aspen, Oak	Sawtimber Medium	13.6	83	51-80	N/A	The stand is predominantly a sparsely treed ridge. The crown closure goes from 80% to below 25%. It averages approximately 55%. There are also scattered white pines and an inclusion of a small fir bog at the south end.																				
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80	4130 - Aspen	Poletimber Well	4.5	61	81-110	N/A	The stand is mainly uplands, but it gets progressively wetter heading south. The aspen is starting to show signs of decline. The terrain is quite hummocky, especially in the southern portion of the stand. The access is limited due to wetlands and private ownerships.																				
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81	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.3	83	51-80	N/A	The stand is very similar to stand 80. However, this stand has more oak and maple. It is also more hummocky and gets wetter moving south towards stand 85. The aspen has poorer form and quality. It is declining and converting to an oak/maple stand. It may be too late to maintain aspen here. The access is limited due to wetlands and private ownerships.																				
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82	4130 - Aspen	Sawtimber Medium	5.9	83	81-110	N/A	The stand slopes down to stand 83. It is not very steep and could be manageable. It has aspen that is overmature and starting to develop cavities. The access is limited due to wetlands and private ownerships. It is too late to manage for a pure aspen stand.																																											
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83	6229 - Mixed lowland shrub	Nonstocked	3.0		Immature	No	The stand is a broad natural drain with a cedar component. It is a long narrow stand. The ash in the stand is now gone. What is left in the overstory has less than 25% crown closure and is a mix of maple, cedar, and fir. The understory is thick to tag alder with some maple and ash seedlings. The access is limited due to wetlands and private ownerships.																																											
84	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	4.2	80	51-80	N/A	The stand is a knob that grades into the lowland type to the east. It is uplands. The ash is gone which has lowered the crown closure near stand 83. The aspen in the stand is very old. The stand cannot be managed for aspen. The access is limited due to wetlands and private ownerships.																																											
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85	629 - Mixed non-forested wetland	Nonstocked	43.4			No	The stand has areas of standing water. The channel of flowing water runs through the center of the stand. The stand is mainly mixed non-forested wetlands.																																											
86	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	13.9	42	81-110	N/A	The stand is a mixture of uplands and lowlands, but it is hard to tell how much of each is here. The terrain is hummocky. The stand could be treated if we can get into it. The access is limited due to wetlands and private ownerships.																																											
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87	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	7.2	71	1-50	N/A	The stand is filling in with red pine, white pine, and jack pine, with an occasional oak. The overstory aspen is in poor shape. There are a lot of cavities, so it is a good wildlife area. The access is limited due to wetlands and private ownerships.																																											
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88	42210 - Natural Red Pine	Sawtimber Well	5.3	65	111-140	N/A	The stand was surveyed for possible Old Growth in 2016. The stands mean DBH was 13 and age 60. There may be some legacy trees, but it does not meet old growth criteria. The stand is very nice and tall. It looks like there are some utility poles. The access is limited due to wetlands and private ownerships.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		89	Log/Pole	13	65	Black/Red (Hybrid) Oak		Medium	>20 feet	Pole
White Pine		11	Log/Pole	13						
89	42200 - Natural White Pine	Sawtimber Well	4.6	71	111-140	N/A	The stand is a natural white pine. Most of the trees are poles or logs. There are some large diameter white pines. The access is limited due to wetlands and private ownerships.			
Canopy Species		% Cover	Size Class	DBH	Age					
White Pine		85	Log/Pole/XLog	13	71					
Red Pine		15	Log/Pole/XLog	14						
90	4130 - Aspen	Poletimber Well	36.5	30	Immature	N/A	The stand was clearcut in 1991. It has an excellent mix of natural regeneration. Some white pines and oaks were left along M-30. The stand is mostly uplands except along the edges where it grades down to the lowland fir type and a lowland shrub type.			
Canopy Species		% Cover	Size Class	DBH	Age					
Bigtooth Aspen		50	Pole/Sapling	5	30					
Quaking Aspen		30	Pole/Sapling	5	30					
Red Maple		15	Sapling/Pole	4						
Black/Red (Hybrid) Oak		5	Sapling	4						
91	42210 - Natural Red Pine	Poletimber Well	2.3	49	51-80	N/A	This is an old borrow pit. It was planted to a mix of jack, red, and white pines. The jack pines are not doing well but the red and white pines are.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Pine		77	Pole	7	49					
White Pine		8	Pole	6						
Jack Pine		15	Pole	6						
92	6123 - Lowland Fir	Poletimber Medium	19.8	40	51-80	N/A	This is an old borrow pit. It was planted to a mix of jack, red, and white pines. The jack pines are not doing well but the red and white pines are.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		60	Pole/Sapling	6	40	Balsam Fir		High	Variable	Sapling
Quaking Aspen		25	Log	12						
Red Maple		15	Pole	6						
93	42200 - Natural White Pine	Sawtimber Well	65.5	58	111-140	N/A	The stand is undulating with a variation in elevation of about 7-10 feet. Some of the larger diameter white pine trees appear to be open grown and were heavily weevilled. The stand is a mix of uplands and lowlands. The lowlands are in small pockets and in the transition zones along the lowland shrub types. The stand was surveyed for possible Old Growth in 2016. The survey determined it did not meet the criteria for old growth. There may be scattered legacy trees.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		60	Log/XLog/Pole	14	58	Black/Red (Hybrid) Oak		Low	5 - 10 feet	Sapling
Red Pine		20	Log/Pole	13		Red Maple		Low	5 - 10 feet	Sapling
Quaking Aspen		5	Log/Pole	10						
Black/Red (Hybrid) Oak		2	Pole/Log	9						
Red Maple		8	Pole/Log/XLog	9						
Paper Birch		4	Pole/Log	9						
Balsam Fir		1	Pole	6						
94	6229 - Mixed lowland shrub	Nonstocked	5.2			No	The stand is mainly tag alder and willow with some widely scattered trees. These trees are mainly around the edges. What ash was in the stand and along the edges is gone.			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
95	6229 - Mixed lowland shrub	Nonstocked	3.9			No	This stand is low and wet and has some swamp hardwood regeneration and poles in it, but they are widely scattered.																																							
96	6229 - Mixed lowland shrub	Nonstocked	5.0	43		No	The stand is low and wet with some aspen, but it is widely scattered over lowland shrubs. There are areas that are marsh grass. There was some ash in the stand along the edges, but it is now gone.																																							
97	6229 - Mixed lowland shrub	Nonstocked	1.5			No	The stand is lowland shrubs. It is mainly tag alder and willow. The trees are mainly around the edges. The ash that was in the stand is gone.																																							
98	6229 - Mixed lowland shrub	Nonstocked	5.7			No	The stand is mainly tag alder and willow with some widely scattered trees. These trees are mainly around the edges. The ash that was in the stand is down.																																							
99	6229 - Mixed lowland shrub	Nonstocked	3.2			No	The stand is mainly tag alder and willow with some widely scattered trees. These trees are mainly around the edges.																																							
100	4319 - Mixed Upland Forest	Sawtimber Well	12.7	54	111-140	N/A	The stand is along M-30 and Finkbinder. The stand was surveyed for possible Old Growth in 2016. However, it did not meet the criteria. There are scattered large diameter white pines. The survey noted a nesting cavity. The stand has some low pockets. However, the stand is mainly uplands.																																							
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101	4133 - Aspen, Mixed Pine	Poletimber Well	5.3	66	111-140	N/A	The stand is a mixture of red pine, white pine, maple, oak and aspen. It is a small triangle between roads.																																							
102	629 - Mixed non-forested wetland	Nonstocked	27.4			No	The stand has tag alder around the edges of the stand, and it goes to willow brush, marsh grass, cattails, and open water toward the center and east end.																																							
103	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	4.2	83	51-80	N/A	This stand was created when stand 109 was harvested. The sale's cut line did not go all the way to stand 102. It has about 40% upland in it mainly along the south edge and the east end. There is a thick understory of maple. The stand goes to fir at the east end. Much of the terrain is hummocky.																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
104	4311 - Pine, Aspen Mix	Poletimber Well	36.0	42	51-80	N/A	The stand was harvested in 1979. When it was harvested the white pine was retained. Most of the white pine appears to have been open grown and heavily weevilled. The soils in the stand gets progressively wetter the further north. The terrain is a mixture of uplands and lowlands. The far north end of the stand is heavy to aspen and fir as well as portions of the south.																																			
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106	4133 - Aspen, Mixed Pine	Sapling Well	23.0	23	Immature	N/A	The stand trees diameters and size are smaller than stand 109 which was harvested at about the same time. When the stand was harvested some rutting did occur, but it was not extensive, and the ruts are not overly deep. The stand is fully stocked with small opening scattered in it. The stand is about 40% lowlands. The species mix is not homogenous. There are pockets of near pure white pine, pockets of aspen, and pockets of birch. The crown closure ranges from 25% up to 100%. It averages 80.																																			
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107	42260 - Natural Pine, Mixed Deciduous	Sapling Well	3.2	23	Immature	N/A	The stand is on a higher knoll and it did not regenerate well to aspen. The species in the stand is mainly oak, aspen, cherry, and jack pine. The stand has been seeding in with pines.																																			
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108	6112 - Lowland Aspen	Sapling Medium	15.4	10	Immature	N/A	The terrain is hummocky with lots of low knolls and wet depressions. Some of the depressions retain water. The soils under the stand are about 1/2 Bowers Soil and 1/2 Croswell-AuGres. The stand looks to be about 55% lowlands. Some of the lowlands are very wet having cattails in marsh grass in them. The regeneration is patchy. The upland areas are thick with aspen.																																			
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109	4139 - Aspen, Mixed Deciduous	Sapling Well	33.3	23	Immature	N/A	The stand is mainly trembling aspen. There is a component of balsam poplar, oak, and red maple. It is hard to tell how much of the stand is uplands or lowlands. There are some high dry ridges but there are also pockets of cattails and alder with no overstory. It appears to be about a 50 to 50 mix.																																			
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110	4130 - Aspen	Poletimber Well	37.2	42	81-110	N/A	The stand is a fully stocked pole stand. The soils in the stand varies from south to north is about 1/2 the stand having Bowers soils, 1/3 of the stand being Croswell soils, and 1/6 the stand having Epohtette soils. This soil goes from dryer to quite wet in the same direction from south to north. The stand is about 40% lowlands. In some of the low areas the stand had ash that is now dead and down. There are a couple pockets of pine.																																													
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111	4134 - Aspen, Spruce/Fir	Sapling Well	30.1	23	Immature	N/A	The stand is about 60% upland. It has a lot of fir and white pine in it that were left when it was harvested. The low areas are heavy to tag alder and sparsely treed. There are also some openings that have regenerated poorly. The overall crown closure is around 75%.																																													
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112	6130 - Fir, Aspen, Maple	Poletimber Well	5.8	45	81-110	N/A	This stand was a buffer in which much of the aspen was removed. It buffers Cedar Lake Rd., and the width varies from 1/2 chain to 2 chains. The stand goes from balsam fir at the north end to White Pine at the south end. The crown closure also goes from 100% at the north end and drops down to around 60 at the south.																																													
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113	6229 - Mixed lowland shrub	Nonstocked	20.1			No	The stand is a broad base drainage that has seen beaver activity in the past. At the current time it is a mix of lowland shrubs.																																													
114	4130 - Aspen	Sapling Well	14.1	23	Immature	N/A	The stand is mostly uplands. However, it gets a little wet along the lowland shrub type on the south edge. There are open pockets which are full of tag alder or with oak. There is also significant ash regeneration along the southern portion of the stand.																																													
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115	6230 - Cattail	Nonstocked	0.7			No	The stand is a depression that holds water. The stand is mainly cattails and water with some lowland shrubs along the edges.																																													
116	3202 - Autumn Olive/Honeysuckle	Nonstocked	2.3	88		No	This stand has an autumn olive planting at the north end. The area along Cedar Lake Road is mainly upland herbaceous with some shrubs and seedlings.																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
117	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	1.5	88	51-80	N/A	This stand was created as a visual buffer for Cedar Lake Rd. when stand 114 was harvested.																																						
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118	4139 - Aspen, Mixed Deciduous	Sawtimber Well	3.1	88	81-110	N/A	The stand is a buffer along Cedar Lake Rd. and the private land to the north.																																						
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119	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	20.6	83	81-110	N/A	The stand looks like it was harvested by cutting all aspen and birch. The remaining species were cut down to 50 BA. As part of the residual all the pines were left. It has a thick under story of maple. The harvest also left a 50-60 foot no cut buffer along the river. There are pockets of lowland shrubs that are wet.																																						
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120	4133 - Aspen, Mixed Pine	Poletimber Well	25.8	42	81-110	N/A	The stand was harvested in 1979. In the harvest 10 sq. ft. of maple and white pine were left. The stand is a pole stand and it could be cut. However, it is still a little on the young side so hold it for another 10 years.																																						
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121	42200 - Natural White Pine	Sawtimber Well	4.4	93	111-140	N/A	The trees along the two-track that goes through the stand have a lot of hand-painted signs nail to them. Therefore, there is an iron issue in the stand that will pose a problem for loggers.																																						
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122	6229 - Mixed lowland shrub	Nonstocked	3.5			No	The stand is a low depression with a mixed of trees and shrubs. The crown closure is close to 15% but not quite there.																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
123	4139 - Aspen, Mixed Deciduous	Poletimber Well	4.7	42	81-110	N/A	The terrain is hummocky, and it is a little wet along the east edge. There is also a lower area in the center of the stand that is heavy to maple.																																	
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124	6229 - Mixed lowland shrub	Nonstocked	8.0	81		No	The stand is mainly lowland shrubs with some maple and aspen. The ash in the stand is gone. In addition, there are areas that have standing water.																																	
125	6113 - Lowland Maple	Poletimber Poor	6.3	83	1-50	N/A	This stand is very wet. All the ash is down taking the crown closure below 25%. There is some regeneration of fir, maple, and ash. However, at the current time it is sparse.																																	
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126	42290 - Natural Mixed Pine	Sawtimber Well	8.2	93	111-140	N/A	The stand's year of origin was 1928. It is mainly red pine and white pine. There are some very large diameter white and red pines.																																	
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127	4130 - Aspen	Poletimber Well	17.2	42	81-110	N/A	When the stand was harvested some of the pine was left. The stand is a little smaller than some of the other 42-year-old stands. It could be harvested as a clear cut. However, it might be better to hold it for another 10 years. The white pine in here is extra-large and some of it is 22 to 24 in. in diameter.																																	
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128	4130 - Aspen	Sapling Well	24.6	10	Immature	N/A	When the stand was harvested the aspen and birch were removed along with most of the other species. The retention contains 20-30 BA. No pine was cut, and the balsam fir was left along the road. The stand is made up of a mix of species. The harvest targeted a mixture of regeneration as well. The stand is a mixture of uplands and lowlands with the uplands being about 55%. The Midland to Mackinaw hiking trail cuts through the southern half of the stand. The terrain is hummocky.																																	
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129	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	2.8	8	Immature	N/A	The overstory is gone. The stand is now small birch and maple with some quaking aspen coming in from the sides. There are a few scattered white pines. The main overstory was ash, which is now dead and down.																																															
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130	4130 - Aspen	Poletimber Well	63.1	27	Immature	N/A	The terrain is hummocky. The stand is a mix of uplands and lowlands. The lowlands are in pockets. Some of them are extensive. They are heavy to lowland shrubs.																																															
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131	6229 - Mixed lowland shrub	Nonstocked	5.4			No	The ash that was in the stand is gone. There are some aspen and maple seeding in from the edges. Their crowns do not make up 25%.																																															
132	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	19.9	99	51-80	N/A	The stand was harvested in 1998 removing the aspen and birch. Some of the west end was not treated because it was too wet. The density in the stand is variable. The south end has a crown closure of around 25%. The north end has a crown closure closer to 75%. The average crown closure is around 60%. The ash is gone. The fir component increases going north.																																															
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133	6112 - Lowland Aspen	Sapling Well	11.6	10	Immature	N/A	The stand was harvested by removing the aspen and birch. In addition, other species were removed taking the BA down to 30 to 40 sq. ft. of mixed maple and pine. The stand has regenerated well. The uplands are thick to aspen and the lowlands are thick to black ash. There is a significant residual of cedar, white pine, and balsam fir. The terrain is hummocky, and portions of the stand are very wet.																																															
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135	6123 - Lowland Fir	Sapling Poor	1.9	23	1-50	N/A	The ash in the stand is now gone. It has converted to a lowland balsam fir type. In the ground cover has areas of cattails, so there are some very wet pockets. There are a few live quaking aspens, but they are not very healthy.																																															
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