



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73084

Entry Year 2024

Acreage: 4,151

County: Gladwin

Management Area: Gladwin Lake Plain

Stand Examiner: Scott Shooltz

Legal Description:

T 17N R 01E Section 24 & 36. T 17N R 02E Sections 19, 20, 21, 22, 28, 29, 30, 31, 32, 33

Identified Planning Goals:

Vegetation management will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character 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. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends in this 10-year planning period will be the continued need to address illegal off-road vehicle use, trash dumping and increased recreational pressure. Goals are consistent with the Gladwin Lake Plain management area (MA) regional plan.

Soil and topography:

The soils in the compartment are made up of mainly somewhat poorly drained Iosco Series, and poorly drained Hettinger Series soils. Some will drained Rubicon and very poorly drained Roscommon Series. Overall the compartment has a high water table. Topography is mainly flat with a few dry ridges.

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

The state land is in multiple blocks with numerous private inholdings. The compartment is mostly bordered by private land. Adjacent state forest is positioned to the north and south. Surrounding parcels are mostly used as recreational properties. Some agricultural land is located towards the SE parts of the compartment.

Unique Natural Features:

Active and historic beaver flooding's. There is a known bald eagles nest in section 31. There are records of slough grass and *Carex lupuliniformis*.

Archeological, Historical, and Cultural Features:

No known archeological sites.

Special Management Designations or Considerations:

N/A

Watershed and Fisheries Considerations:

Multiple man made drainages bisect the compartment. These drain into the Kawkawlin Flooding.

Wildlife Habitat Considerations:

Wildlife Habitat Considerations: Compartment #84. This compartment is located in southeastern Gladwin County. Both upland and lowland systems are present, making it suitable for a number of wildlife species. This area is heavily utilized by out-of-County grouse and woodcock hunters and remains a very popular location for archers and firearm deer hunters. The majority of stands are lowland cover types. Furbearers including beaver, mink, muskrat, black bear, bobcat, and coyote use the lowlands as corridors as well as year-round habitat. Game species likely to be present in this compartment include black bear, bobcat, raccoon, coyote, wood duck, wild turkey, ruffed grouse and white-tailed deer. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These species include gray catbird, redbreasted vireo, white-breasted nuthatch, tufted titmouse, black-capped chickadees, eastern kingbirds and northern flicker. The compartment is easily accessible to hunters via Deer Road and Estey Road.

Mineral Resource and Development Concerns and/or Restrictions

No active sand/gravel pits occur in the area, and potential for sand & gravel development within the compartment appears to be limited. Part of the Bentley oil field is within the compartment. Some producing wells remain active in the field. In addition, there has been renewed interest in the Dundee Limestone in recent years in this area, and there are recent State oil & gas leases within the compartment and in the surrounding area. There could be potential for new development wells within the Bentley Field. No known metallic mineral potential exists in this part of the state.

Vehicle Access:

Vehicle access is fair. Primary access is provided via gravel county roads which bisect the compartment. A limited state forest road system spurs off from county roads providing some interior access. Numerous parking opportunities adjacent to county roads. Most of the roads in the compartment are impassible during wet conditions.

Survey Needs:

Numerous survey needs required this year of entry to conduct forest management activities. Limited DNR survey work has been done in the compartment. Remonumented corner data is lacking.

Recreational Facilities and Opportunities:

The Midland to Mackinac Hiking Trail runs through the compartment half a mile on either side of Deer Rd. The tread is not well established and markings are faded. Any harvest that occur needs to be set up to protect the trail. Dispersed hunting, and trapping along the drains where access permits within the compartment

Fire Protection:

Wild fire risk is minimal in this compartment due to low lying ground which holds standing water through the spring of the year.

Additional Compartment Information:

Management activities in the area need to be wary of exposed oil and gas lines. Numerous connecting lines between wells and storage batteries, some are buried, some are not.

The following reports from the Inventory are attached:

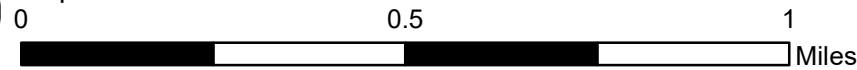
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

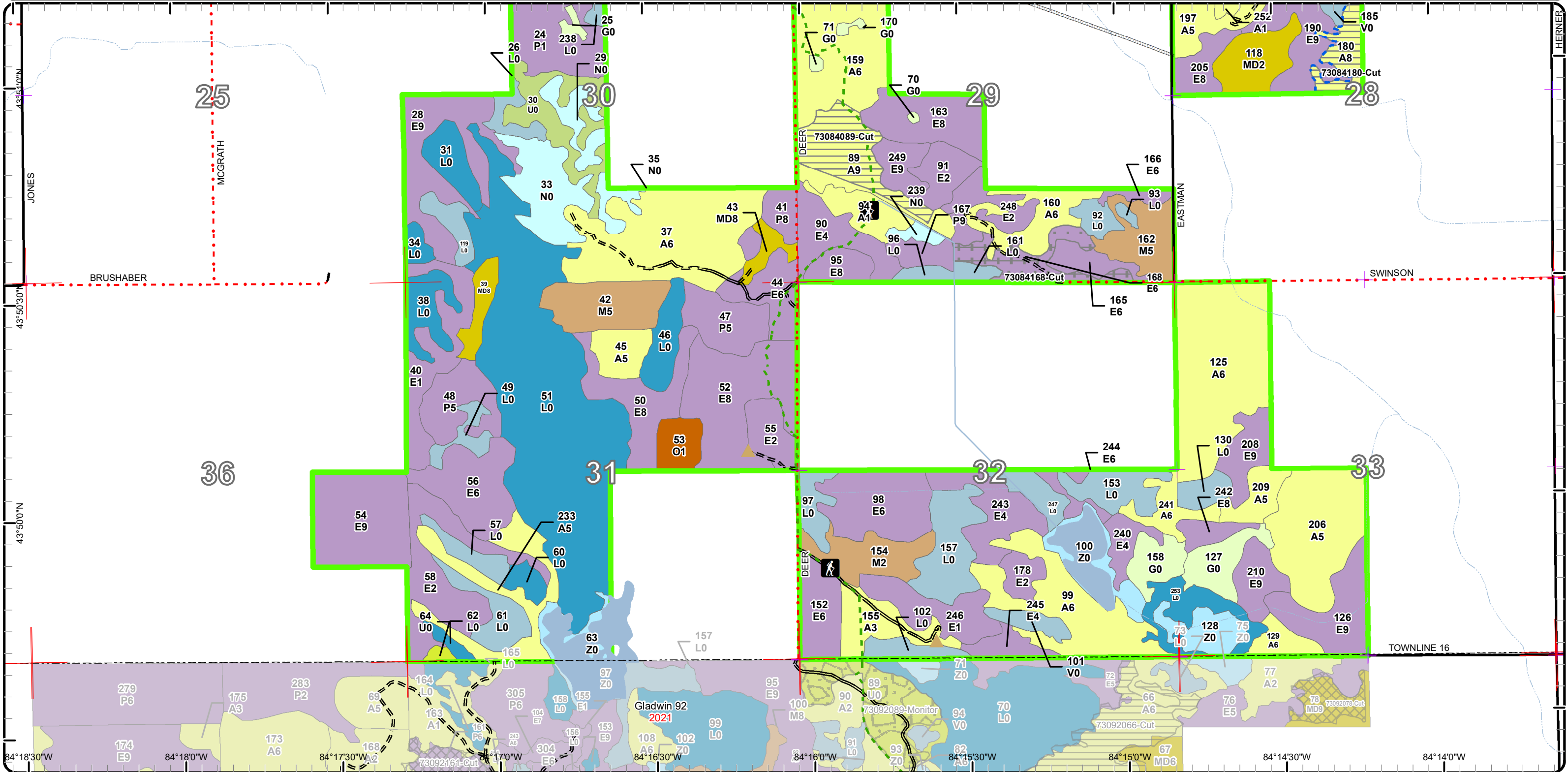
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 84
 T17NR01E Sec. 24 & 36
 T17NR02E Sec. 19-22 and 28-33
 County: Gladwin
 Unit: Gladwin
 Mgmt Area: Gladwin Lake Plain
 YOE: 2024
 Acres: 4151 GIS Calculated
 Examiner: Scott Shooltz
 Map Revised: 6/2/2022
 Map Phase: Web-Post

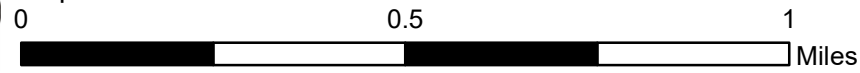


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Hiking Trails
- Designated Hiking Trails
- Berms
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
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- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
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- 629 - Mixed Non-forested Wetland

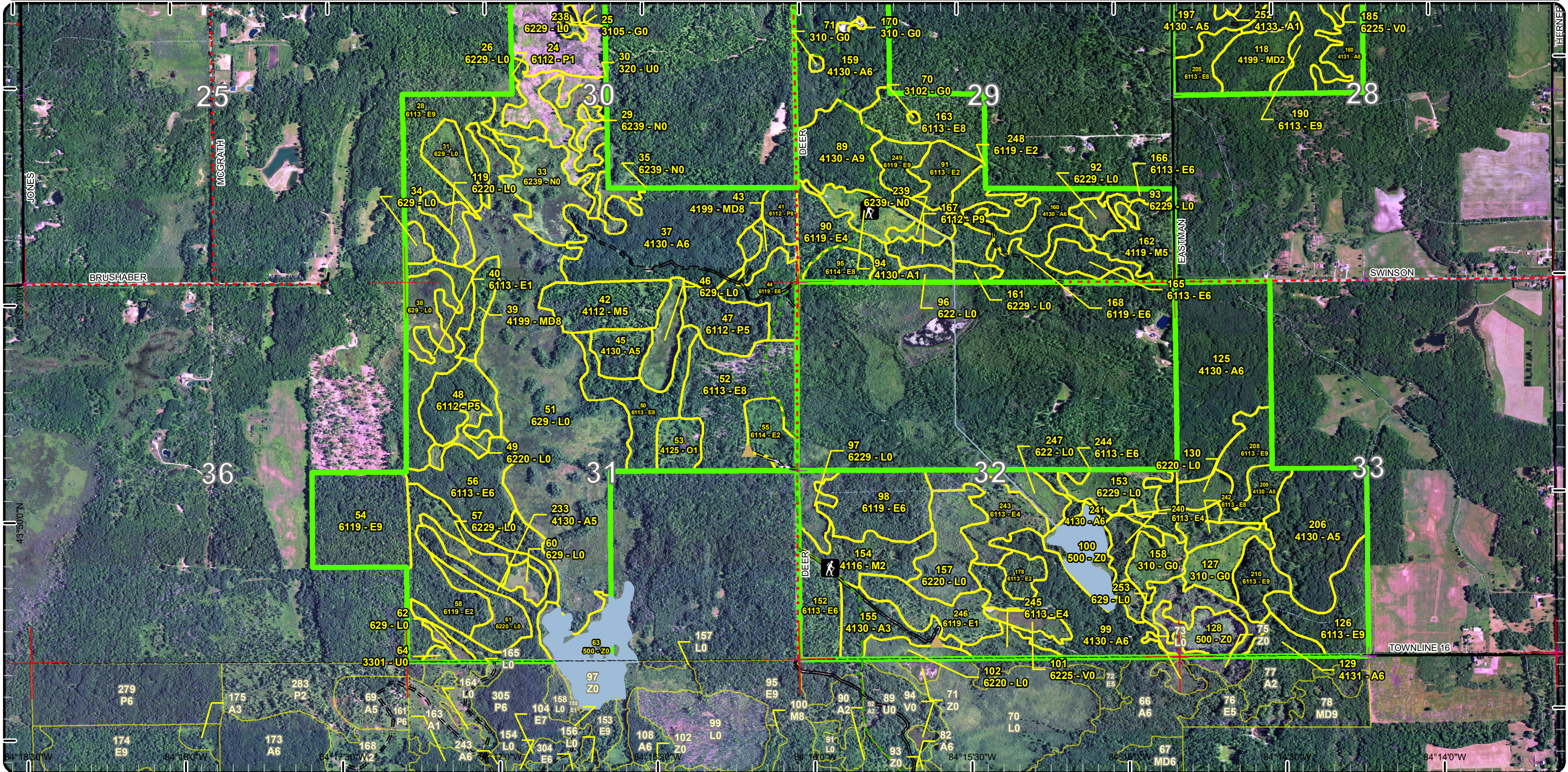


Stand Boundary Map

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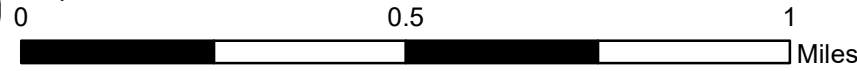


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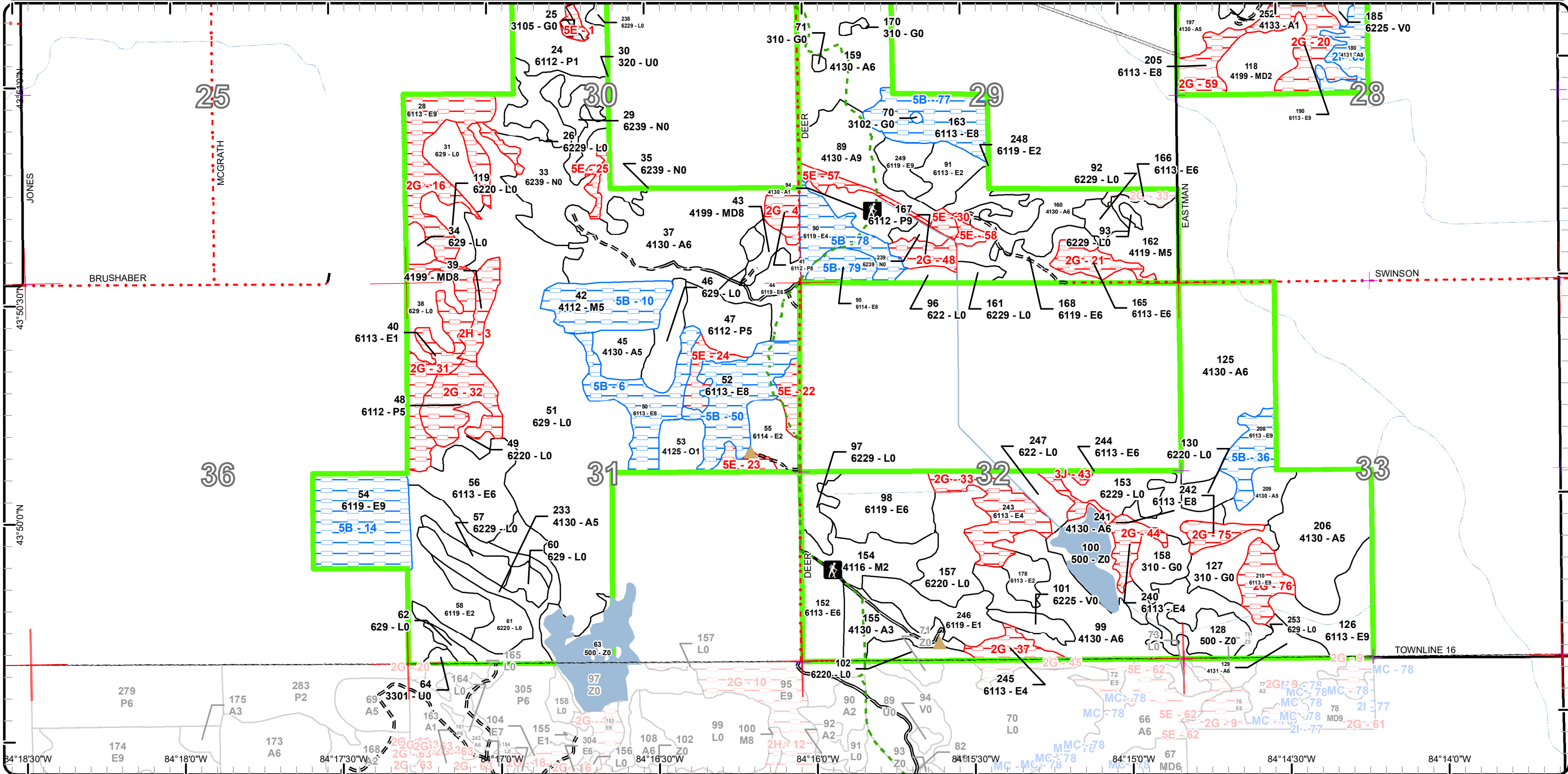


Special Conservation Areas

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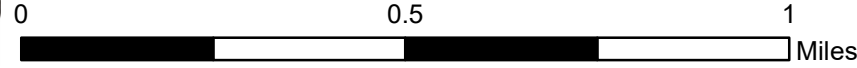


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- Available w/ Constraints
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries

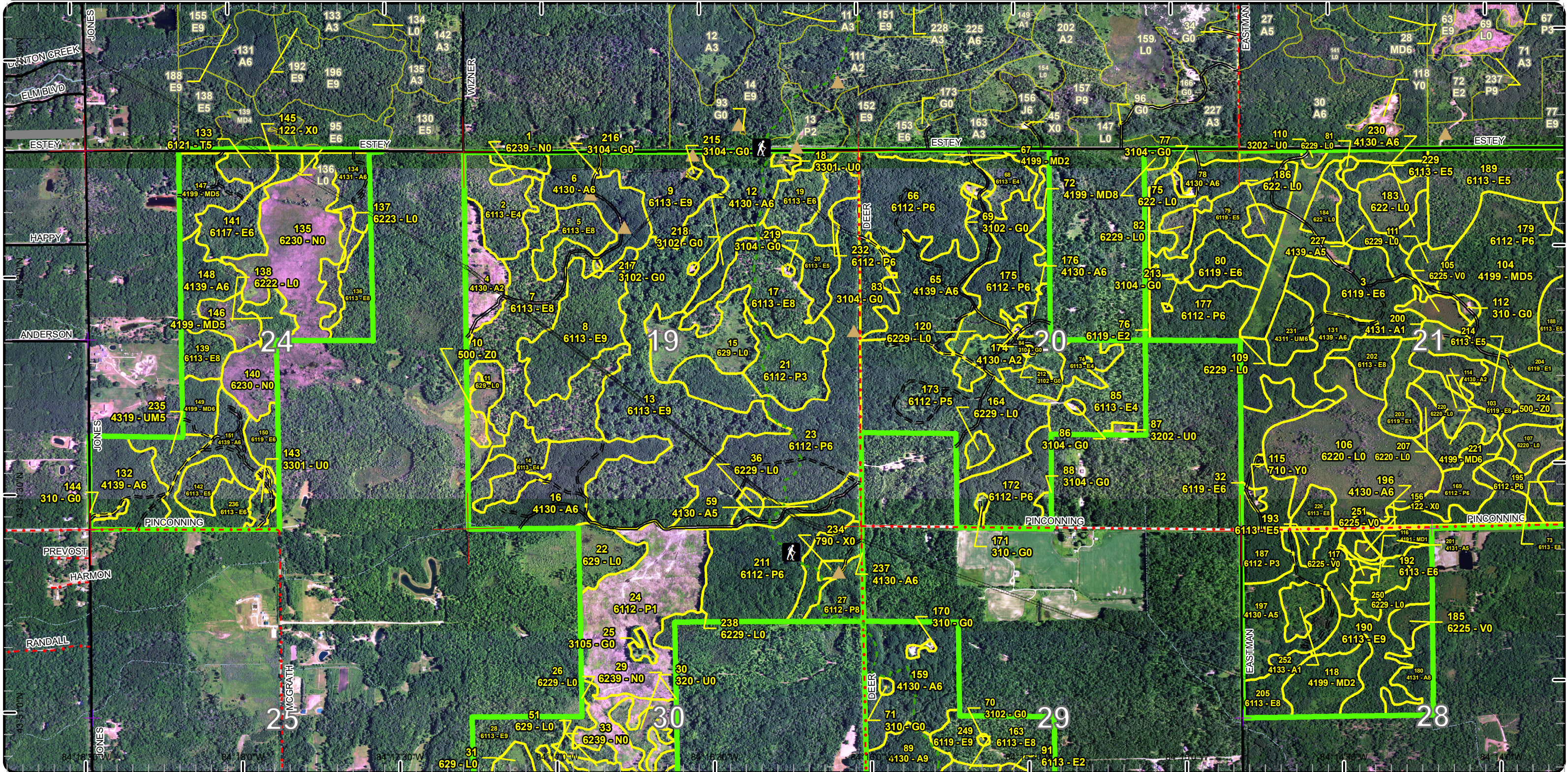


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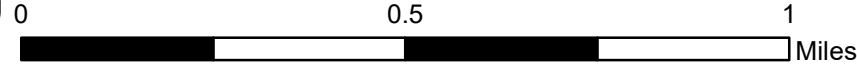


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- Airports
- Compartment Boundary
- Stand Boundaries
- 710 - Sand/Soil
- 790 - Other Bare/Sparsely Vegetated
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
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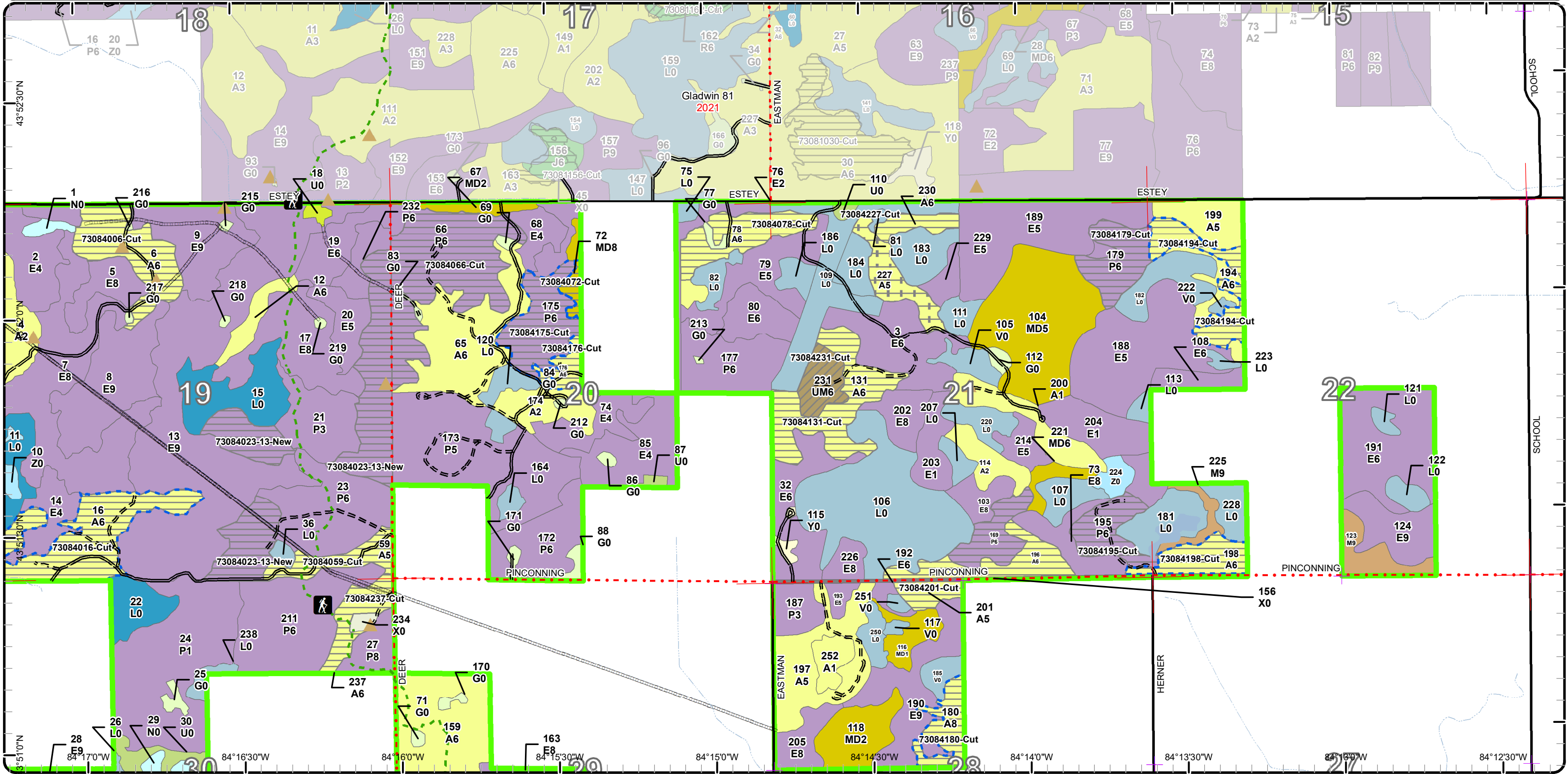


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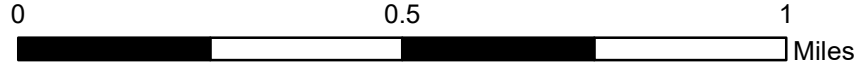


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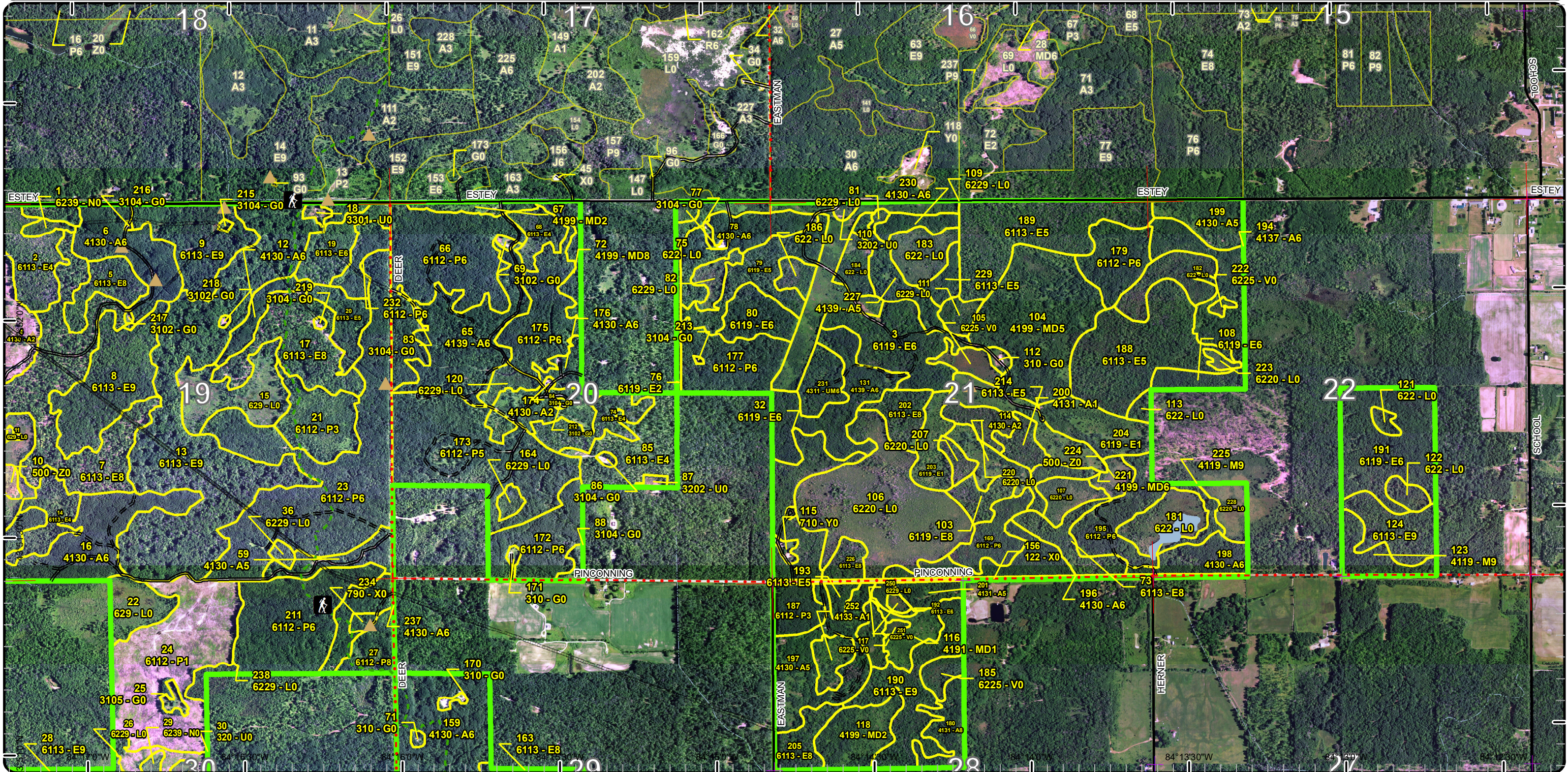


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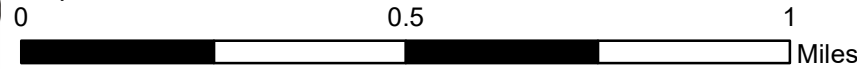


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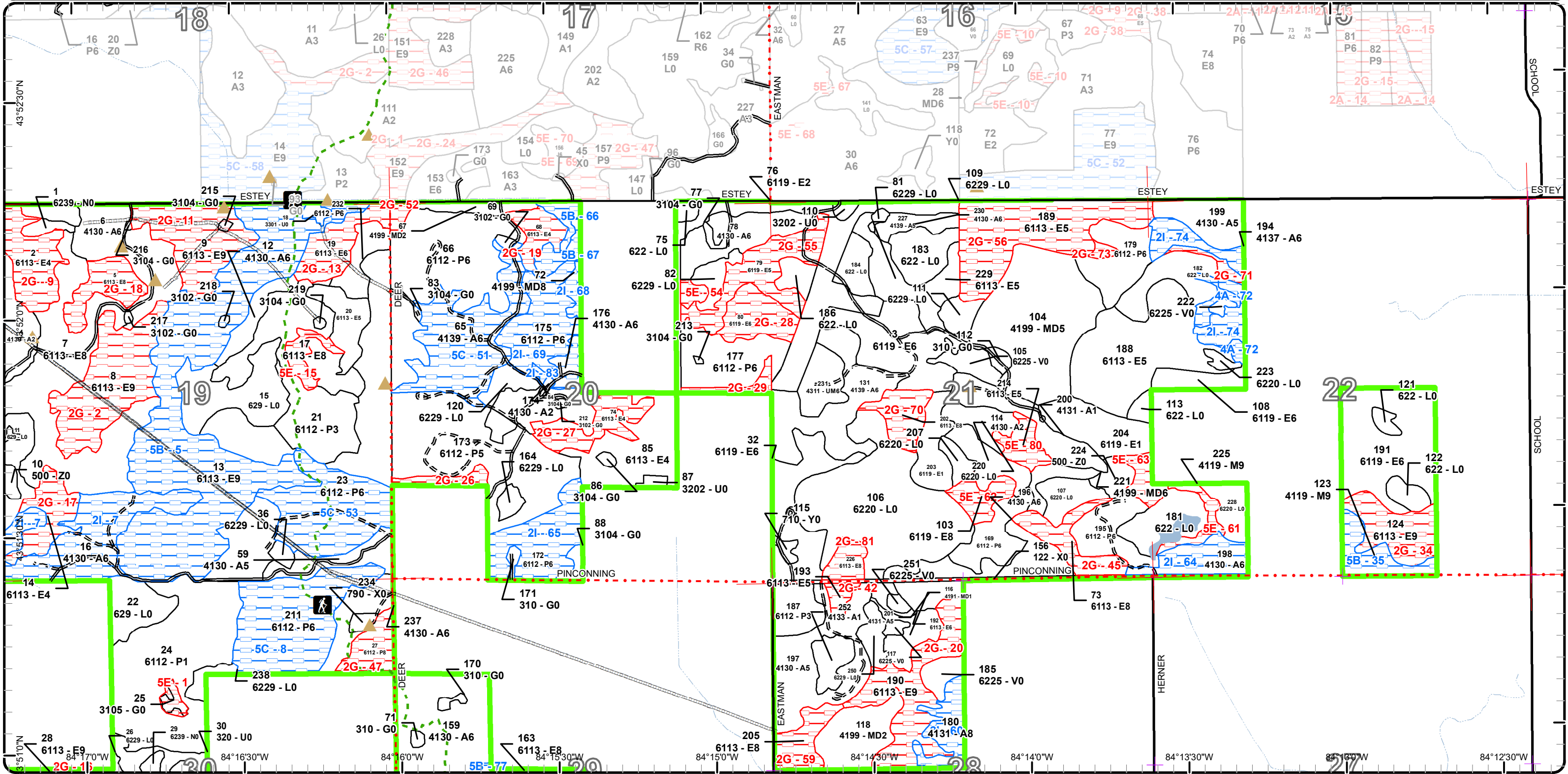


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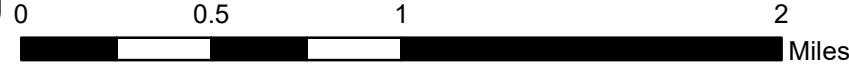


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- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries

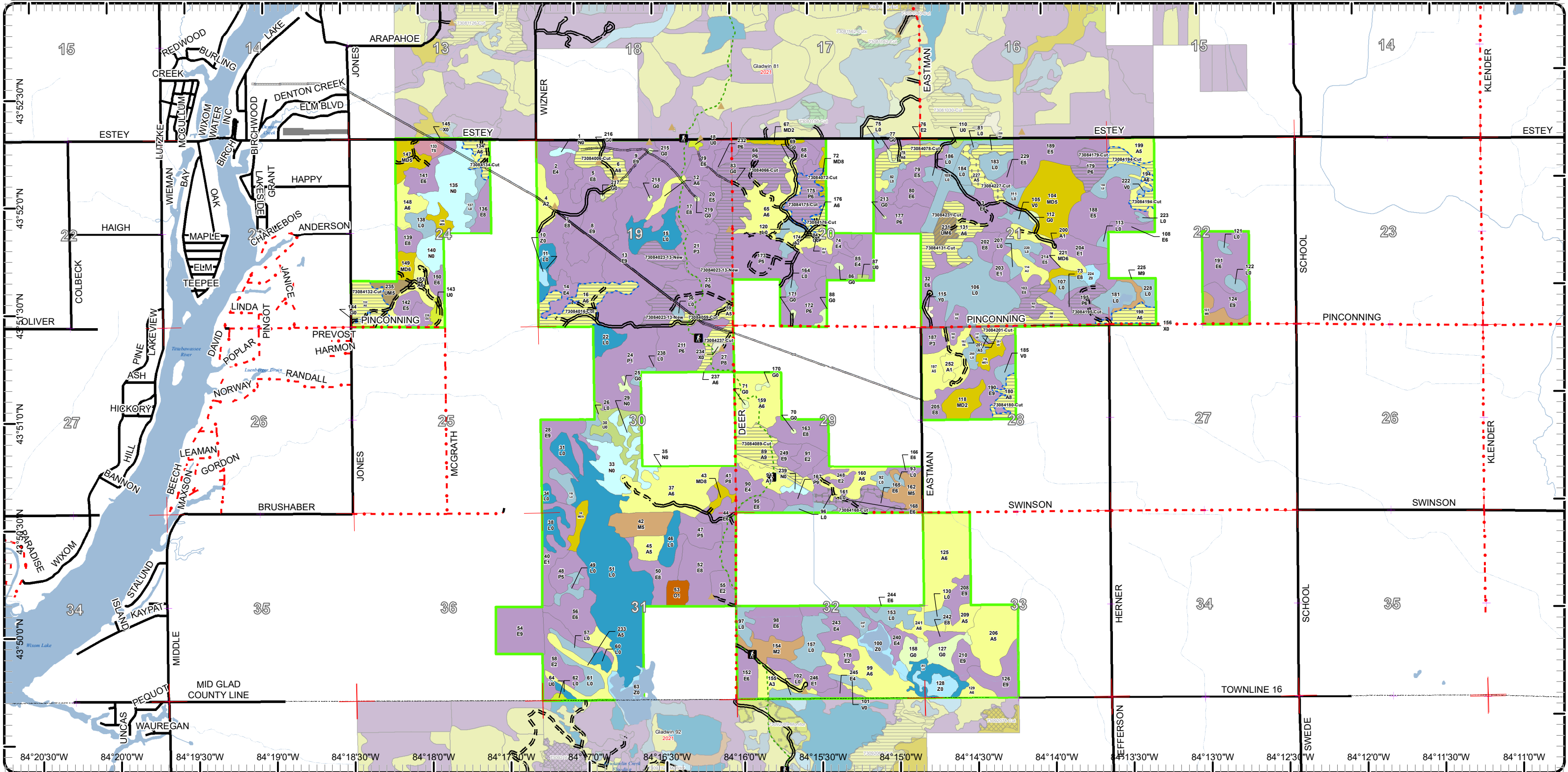


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	17	13	209	334	272	12	33	0	13	0	0	0	0	0	0	0	0	902
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Bog	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Herbaceous Openland	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	67	23	19	169	240	53	0	0	0	0	7	0	0	0	0	0	0	576
Lowland Deciduous	0	0	0	92	149	180	63	81	46	121	230	163	0	0	0	0	0	335	1458
Lowland Shrub	655	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	655
Marsh	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113
Mixed Upland Deciduous	0	0	0	34	72	31	0	6	0	8	0	0	0	0	0	0	0	0	151
Northern Hardwood	0	0	0	20	0	0	0	0	0	0	50	12	0	0	0	0	0	0	82
Oak	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Tamarack	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	0	0	0	9	11	0	0	0	0	0	0	0	0	0	0	0	0	20
Upland Shrub	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Total	942	84	36	391	733	734	128	120	46	142	280	182	0	0	0	0	0	335	4148



Report 2 – Treatment Summary

Gladwin Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 84

Total Compartment Acres: 4,151

Commercial Harvest - 363
 Harvests with Site Condition - 154
 Next Step Harvest - 26
 Habitat Cut - 26

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	284	0	0	0	0	13	0	0		297
Lowland Aspen/Balsam Poplar	188	0	0	0	0	0	0	0		188
Lowland Deciduous	0	0	0	0	0	18	0	0		18
Mixed Upland Deciduous	3	0	0	0	0	0	0	0		3
Upland Mixed Forest	0	0	0	0	11	0	0	0		11
Total	475	0	0	0	11	31	0	0		517

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	517	0	0	0	0	0	0	0		517
Next Step	26	0	0	0	0	480	0	0		506
Total	543	0	0	0	0	480	0	0		1023



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

6	73084006-Cut	27.4	4130 - Aspen	Poletimber Well	36	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest stand two inches and up. Apply Gladwin grouse specifications. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Fully stocked to moderately stocked aspen stand. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
16	73084016-Cut	40.4	4130 - Aspen	Poletimber Well	44	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut 2" and up. Apply Gladwin grouse habitat specifications. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Fully stocked aspen stand. <u>Regen:</u> <u>Other</u> Access road will require a culvert installation. Old culvert has washed out. <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2023</p>											
23	73084023-13-New	63.2	6112 - Lowland Aspen	Poletimber Well	44	81-110	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2" and up except for oak. Apply Gladwin grouse habitat specifications. Harvest during dry or frozen conditions. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Poor to moderate stocking of aspen after 10 years. Full to moderate stocking of aspen/hardwood after 20 years. <u>Regen:</u> <u>Other</u> No retention due to narrow stand size and early successional species management objective. See retention guidelines. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
59	73084059-Cut	12.1	4130 - Aspen	Poletimber Medium	53	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest 2" and up. Do not cut the few oak in the stand. Do not leave retention due to small stand size. Apply Gladwin grouse specifications <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Moderate to poor stocking of 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
66 73084066-Cut	54.7	6112 - Lowland Aspen	Poletimber Well	43	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Remove all trees that are two inches and up. Do not cut oak. Place retention pockets around wettest areas or areas dominated by lowland hardwoods. Apply Gladwin grouse habitat specifications. Harvest during dry or frozen conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderately to poorly stocked aspen after 10 years. Fully to moderately stocked aspen, mixed deciduous after 20 years. Lowest areas are expected to be slow to regenerate.</p> <p><u>Other Comment:</u> Portions of the stand are too wet to cut. Harvest acres will be significantly different than prescribed acres. Do not place retentions pockets within 50 feet of Deer Rd.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
72 73084072-Cut	3.2	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	42	1-50	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Remove all tree that are 2" and up. Do not cut oak. No retention in this stand due to its small acreage and proximity to private. Harvest during dry/frozen conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderately to poorly stocked aspen after 10 years. Will slowly fill in with hardwood after 20 years.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
78 73084078-Cut	18.9	4130 - Aspen	Poletimber Well	43	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut 2" and up. Apply Gladwin Grouse specifications.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully to moderately stocked aspen.</p> <p><u>Other Comment:</u> Stand surrounds an active oil well with pumper and battery tanks.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
89 73084089-Cut	25.8	4130 - Aspen	Sawtimber Well	60	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2" and up. Apply Gladwin grouse specifications. Retention pre-delineated in Eastern finger and south of drain.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Harvest, Clearcut with Retention</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully to moderate stocking of aspen.</p> <p><u>Other Comment:</u> Midland to Mackinaw Boy Scout Trail bisects the stand. Protect blue painted trees. Keep trail clear of debris.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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131	73084131-Cut	31.1	4139 - Aspen, Mixed Deciduous	Poletimber Well	44	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all trees 2" and up except for oak and pine. Apply Gladwin grouse habitat specifications. Harvest during dry/frozen periods.
Specs: Remove wettest areas and area dominated by maple.

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

Acceptable Regen: Poor to moderate aspen mixed with hardwood.

Other Comment: Harvest area may be significantly less than what is prescribed.

Site Condition:

Proposed Start Date: 10/1 /2023

132	73084132-Cut	27.0	4139 - Aspen, Mixed Deciduous	Poletimber Well	46	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Cut 2" and up. Do not cut pine or oak. Apply Gladwin grouse specifications. Place retention along Jones Rd but not closer than 100 feet.
Specs:

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

Acceptable Regen: Any mix of aspen/mixed deciduous regeneration meeting minimum stocking levels.

Other Comment: Seasonably wet pockets in the stand.

Site Condition: Survey Needed

Proposed Start Date: 10/1 /2023

134	73084134-Cut	10.6	4131 - Aspen, Oak	Poletimber Well	45	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Cut 2" and up. Do not cut oak. Place retention adjacent to the marsh. Apply Gladwin grouse specifications.
Specs:

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

Acceptable Regen: Any mix of aspen or other deciduous meeting minimum stocking levels.

Other Comment: Treated acres may be significantly less than what is prescribed.

Site Condition: Survey Needed

Proposed Start Date: 10/1 /2023

168	73084168-Cut	18.1	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	95	81-110	Harvest	Overstory Removal	611 - Lowland Deciduous Forest	Even-Aged	No
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Prescription Cut all aspen. Thin hardwoods down to 60 BA. Focus on removing poor formed older stems to release younger single seeded trees. In heavy aspen pockets, mark to cut extra trees to promote aspen sprouting.
Specs:

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

Acceptable Regen: Patches of aspen regeneration mixed with understory maple release and new hardwood regeneration establishment. Overall regeneration will be poor to moderate.

Other Comment: Access along old Swinson road bed is unknown.

Site Condition:

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
169 73084169-Cut	13.6	6112 - Lowland Aspen	Poletimber Well	44	51-80	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all trees 2" and up except for oak. Apply Gladwin grouse habitat specifications. Harvest during dry/frozen periods. Remove wettest areas and pockets of primarily maple.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderately to poorly stocked aspen after 10 years. Fully to moderately stocked aspen, mixed deciduous after 20 years. Lowest areas are expected to be slow to regenerate.</p> <p><u>Other Comment:</u> Harvest area may be significantly less than what is prescribed due to wet soils.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
175 73084175-Cut	24.1	6112 - Lowland Aspen	Poletimber Well	43	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Remove all trees that are two inches and up. Do not cut oak. Place retention pockets around wettest areas or areas dominated by lowland hardwoods. Apply Gladwin grouse habitat specifications. Harvest during dry or frozen conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderately to poorly stocked aspen after 10 years. Fully to moderately stocked aspen, mixed deciduous after 20 years. Lowest areas are expected to be slow to regenerate.</p> <p><u>Other Comment:</u> Portions of the stand are too wet to cut. Harvest acres will be significantly different than prescribed acres.</p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
176 73084176-Cut	6.0	4130 - Aspen	Poletimber Well	43	1-50	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Remove all trees that are two inches and up. Do not cut oak. Apply Gladwin grouse habitat specifications. Harvest during dry or frozen conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate to fully stocked aspen stand in 10 years with other hardwoods filling in over 20 years.</p> <p><u>Other Comment:</u> Oil and gas infrastructure in the treatment area.</p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
179 73084179-Cut	17.2	6112 - Lowland Aspen	Poletimber Well	32	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest trees that are 2" and up.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Poor to moderate stocking of aspen. Regeneration may take 20 years to fill in.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



Stand Name	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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180 73084180-Cut 12.6 4131 - Aspen, Oak Sawtimber Medium 84 81-110 Harvest Clearcut with Retention 4139 - Aspen, Mixed Deciduous Two-Aged No

Prescription Cut aspen 2" and up. Leave all other species.
Specs: Protect advanced regeneration maple where possible. Apply Gladwin grouse specifications. Apply oak wilt specifications.
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable Regen: Poor to moderate regeneration of aspen combined with release of advanced maple understory. Regeneration failure is a concern.
Other Comment: Difficult access. Harvest during dry or frozen conditions. Best access is through stand 190 and the very north end of stand 118.
Site Condition: Survey Needed
Proposed Start Date: 10/1 /2023

194 73084194-Cut 16.8 4137 - Aspen, Birch Poletimber Well 44 51-80 Harvest Clearcut with Retention 4139 - Aspen, Mixed Deciduous Even-Aged No

Prescription Harvest trees that are 2" and up except for oak and pine.
Specs:
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable Regen: Poor to moderate stocking of aspen mixed with other hardwoods.
Other Comment:
Site Condition: Survey Needed
Proposed Start Date: 10/1 /2023

195 73084195-Cut 15.1 6112 - Lowland Aspen Poletimber Well 33 81-110 Harvest Clearcut with Retention 6112 - Lowland Aspen Even-Aged No

Prescription Harvest all trees 2" and up except for oak. Apply Gladwin grouse habitat specifications. Harvest during dry/frozen periods. Keep retention pockets 50 ft from Pinconning Rd.
Specs:
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable Regen: Moderately to poorly stocked aspen after 10 years. Fully to moderately stocked aspen, mixed deciduous after 20 years. Lowest areas are expected to be slow to regenerate.
Other Comment: Harvest area may be significantly less than what is prescribed because of wet soils.
Site Condition:
Proposed Start Date: 10/1 /2023

196 73084196-Cut 16.7 4130 - Aspen Poletimber Well 44 51-80 Harvest Clearcut with Retention 413 - Aspen Even-Aged No

Prescription Harvest all trees 2" and up except for oak. Apply Gladwin grouse habitat specifications. Harvest during dry/frozen periods. Keep retention pockets 50 ft from Pinconning Rd.
Specs:
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable Regen: Moderate to poor stocking of aspen and mixed hardwood.
Other Comment:
Site Condition:
Proposed Start Date: 10/1 /2023



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
198	73084198-Cut	13.5	4130 - Aspen	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all trees 2" and up except for oak. Apply Gladwin grouse habitat specifications. Harvest during dry/frozen periods. Keep retention pockets 50 ft from Pinconning Rd.</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> Full to moderate stocking of aspen and mixed hardwood.</p> <p><u>Regen:</u></p> <p><u>Other</u> Creek crossing required. Cross with crain mats. EAGLE permit required. Short natural drainage way that connects adjacent lowland to county road ditch.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
201	73084201-Cut	6.6	4131 - Aspen, Oak	Poletimber Medium	43	1-50	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all aspen that are 2" and up. Leave all other species.</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> Poor to moderate aspen in the next 10 years. Additional hardwood regeneration in 20 years. Will accept a covertime conversion to mixed deciduous.</p> <p><u>Regen:</u></p> <p><u>Other</u> New driveway installation is best access. Skidding through stand 192 is the second best option.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
227	73084227-Cut	13.3	4139 - Aspen, Mixed Deciduous	Poletimber Medium	44	1-50	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Cut aspen that are 2" and up. Protect all other species.</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> Pockets of aspen regeneration mixed with maple/oak residual stems.</p> <p><u>Regen:</u></p> <p><u>Other</u> Some residual stems will need to be cut in order to remove all of the aspen.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
230	73084230-Cut	6.4	4130 - Aspen	Poletimber Well	44	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2" and up. No retention due to small stand size. Apply Gladwin Grouse specifications.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully to moderately stocked aspen stand.</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 /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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231	73084231-Cut	11.0	4311 - Pine, Aspen Mix	Poletimber Well	44	51-80	Harvest	Crown Thinning	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription Harvest aspen 2" and up. Mark to cut skid trails and access paths were necessary to reduce residual damage. Harvest during dry/frozen periods.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Goal of harvest is to release canopy and understory pine/oak/maple from competition.
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

237	73084237-Cut	11.8	4130 - Aspen	Poletimber Well	44	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Harvest 2" and up. Do not cut the few oak in the stand. Do not leave retention due to small stand size. Apply Gladwin grouse specifications
Specs:

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

Acceptable Fully to moderately stocked aspen stand.
Regen:

Other Stand is adjacent to oil and gas infrastructure.
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

Total Treatment 517.2
Acreage Proposed:

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Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
903	715	173	14

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions									
					2I	4A	5B	5C	2G	2H	3J	5E		
903	715	173	14		Aspen	127	5	0	42	4				10
2	2	0	0		Bare/Sparsely Vegetated									
22	22	0	0		Bog									
44	41	0	3		Herbaceous Openland			0		1				2
8	8	0	0		Low-Density Trees			0						
577	373	141	63		Lowland Aspen/Balsam Poplar	50		7	84	57				7
1459	615	304	539		Lowland Deciduous			295	9	493	0	5		41
655	655	0	0		Lowland Shrub			0		0	0			
113	113	0	0		Marsh									0
151	138	5	8		Mixed Upland Deciduous	3		2		0	8			
82	39	37	6		Northern Hardwood			37		1				5
10	10	0	0		Oak									
2	2	0	0		Sand, Soil									
7	0	0	7		Tamarack					7				
20	20	0	0		Upland Mixed Forest									
27	24	0	3		Upland Shrub									3
10	10	0	0		Urban									
59	59	0	0		Water									
4,151	2,846	661	644		Total Forested Acres	180	5	341	135	562	8	5		69
	69%	16%	16%		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	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	131	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5B: Maintain for regeneration purposes	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	2I: Survey needed	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold this stand for 10 years to diversify aspen age classes in the area.							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5B: Maintain for regeneration purposes	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	2I: Survey needed	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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14	Available	5B: Maintain for regeneration purposes	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Let aspen die out of the stand. Preserve natural forest succession.							
15	Unavailable	5E: Long-Term Retention	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26				
Comments:							

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32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22				
Comments:							
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Let the aspen in the stand continue to die naturally. Harvesting will cause to much disturbance in the stand for very little gain. Canopy gaps already filling in with regeneration.							
36	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Allow aspen to fall out of the stand and regeneration to fill in canopy gaps.							
37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was harvested in 1989. Regeneration has been minimal. Marsh grass and lowland shrubs have dominated the stand. Stand was and is too wet for management.							

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38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet pocket not cut when adjacent stand was harvested.							
43	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz: Examiner

Compartment: 84
 Year of Entry: 2024



44	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7				
Comments:							
47	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Central portions of this stand are too wet to cut.							
48	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
49	Available	2I: Survey needed	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz: Examiner

Compartment: 84
 Year of Entry: 2024



50	Available	5B: Maintain for regeneration purposes	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Harvest in 10 years to allow average diameter to increase and to breakup habitat and large cut areas.							
52	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
53	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold stand 10 years to break up habitat and reduce contiguous clear-cut size.							
54	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
55	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz: Examiner

Compartment: 84
 Year of Entry: 2024



56	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
57	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
58	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
59	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
60	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
61	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Keep this stand as is for diversity.							
62	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Keep this stand as is for diversity.							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz: Examiner

Compartment: 84
 Year of Entry: 2024



63	Unavailable	5E: Long-Term Retention	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
64	Available	2I: Survey needed	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
65	Available	2I: Survey needed	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
66	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sparse aspen area. Mostly small diameter maple and scattered swamp white oak. Let this timber mature before managing.							
67	Available	5B: Maintain for regeneration purposes	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sparse aspen area. Mostly small diameter maple. Let this timber mature before managing.							
68	Available	2I: Survey needed	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
69	Available	2I: Survey needed	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz: Examiner

Compartment: 84
 Year of Entry: 2024



70	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11				
Comments:							
71	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
72	Available	4A: No Markets Available for these Forest Products	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small diameter tree areas. These areas did not regenerate well the last time the stand was cut. Mostly scattered oak and small diameter maple and birch.							
73	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
74	Available	2I: Survey needed	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
75	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6				
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz: Examiner

Compartment: 84
 Year of Entry: 2024



76	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
77	Available	5B: Maintain for regeneration purposes	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Maintain canopy until more regeneration is established in the understory.							
78	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: In ten years the current canopy will be less than 25% of the closure area.							
79	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Let understory regeneration establish.							
80	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Let the stand progress naturally to provide diversity.							
81	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz: Examiner

Compartment: 84
 Year of Entry: 2024



82	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Thin in 10 years.							
83	Available	2I: Survey needed	6	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	6239 - Mixed Emergent Wetland	Nonstocked	2.6			No	The stand is in a depression and is mainly cattails and marsh grass. There are some birch trees along the edges.																																										
2	6113 - Lowland Maple	Poletimber Poor	20.5	70	1-50	N/A	2024 YOE Comments: Portions of the stand converted to non-forested because of EAB related mortality. Ash regeneration is present throughout most of the stand. Trace of cedar.2014 YOE Comment: The stand is very wet with a lot of standing water. This is especially evident in the north end. EAB is present in the stand. It is infesting the black ash to a greater degree than the green ash.																																										
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3	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	31.0	44	81-110	N/A	2024 YOE Comments: Updated stand boundary. Removed E 9 area. Mix of aspen/maple/oak. 2008 YOE Comment: Lots of large wet depressions mixed with dry knolls. The stand ranges from E4/L to E9. The habitat is PARVCo. 1978 Comments: Harvested under contract 11-78A.																																										
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4	4130 - Aspen	Sapling Medium	17.2	7	Immature	N/A	2024 YOE Comments: Canopy closure is now over 50% and should be above 75% in another 10 years. West edge is lowland and is taking longer to regenerate. Scattered white pine seedlings. 2015 Comments: Harvested August 2015 under contract # 73-001-14-01 Estey Blend. Stand was cut 2" and up with scattered oak, maple, and aspen marked to leave. In addition all white pine, cedar, and hemlock were left. 2014 YOE Comments: The stand is an upland ridge. The aspen is overmature and there is good advanced regeneration of oak and maple.																																										
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5	6113 - Lowland Maple	Sawtimber Medium	12.9	74	51-80	N/A	2024 YOE Comments: Ash mortality has reduced canopy closure. Dead ash is mostly on the ground. Sapling ash regeneration in the understory. Trace of cedar.2014 YOE Comment: The terrain is hummocky and wet. There are pockets of standing water. The stand has traces of white pine and black ash.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
7	6113 - Lowland Maple	Sawtimber Medium	68.6	101	51-80	N/A	<p>2024 YOE Comments: Scattered aspen regeneration pockets throughout the stand, mostly on upland knobs. Lowland areas have less regeneration. What is there is primarily ash/alder/willow. Some release of advanced regeneration. Beech represents a sizeable portion of these. Trace of sugar maple/beech/basswood in the canopy. Canopy closure is closer to 50% than 75%. Regeneration is expected to take several decades to establish.</p> <p>2015 Comments: Harvested October 2015 under contract # 73-001-14-01 Estey Blend. Stand was marked to 73 sq. ft. No single species was eliminated.</p> <p>2014 YOE Comments: The terrain is hummocky but it is operable for the most part. The south end of the stand seems dryer than the north end.</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		2	Log/Pole	10		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Red Maple		68	Log/Pole/XLog	12	101	Serviceberry (Juneberry)		Low	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak		15	Log/XLog/Pole	12		Ash (spp.)		Medium	Variable	Sapling
Basswood		5	Log/Pole	12		Beech		Medium	Variable	Sapling
Quaking Aspen		10	Log/Pole	14		Bigtooth Aspen		Low	10 - 20 feet	Sapling
						Quaking Aspen		Medium	10 - 20 feet	Sapling
8	6113 - Lowland Maple	Sawtimber Well	38.6	101	111-140	N/A		<p>2024 YOE Comments: Unique stand. Best to let this stand continue naturally. Yellow birch is regenerating and recruiting into the canopy in places.</p> <p>2014 YOE Comment: The terrain is hummocky. There is a trace of yellow birch, basswood, gray birch, and elm. The stand is too wet to harvest.</p>		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height
Cottonwood		2	XLog/Log	22		Deciduous Shrubs	Medium		5 - 10 feet	Tall Shrub
Swamp White Oak		13	Log	12		Deciduous Saplings	Low		10 - 20 feet	Sapling
Yellow Birch		5	Log/Pole/XLog	12						
Basswood		10	Log/Pole	12						
Red Oak		5	Log/XLog	14						
Red Maple		65	Log/Pole/XLog	16	101					
9	6113 - Lowland Maple	Sawtimber Well	29.2	98	111-140	N/A	<p>2024 YOE Comments: Downed trees throughout, mostly ash. 2014 YOE Comment: The stand has a pocket of hemlock and inclusions of lowlands. The lowland pockets are mainly cattails and marsh grass.</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		100	Log/Pole/XLog	16	98	Deciduous Shrubs		Low	5 - 10 feet	Tall Shrub
						Musclewood/Hornbeam		Low	5 - 10 feet	Sapling
						Ash (spp.)		Low	Variable	Sapling
						Red Maple		Medium	Variable	Sapling
10	500 - Water	Nonstocked	3.7			No	2014 YOE Comment: This stand is a remnant of an old beaver flooding.			
11	629 - Mixed non-forested wetland	Nonstocked	10.6			No	2024 YOE Comments: Lowland shrub border around beaver flooding. 2014 YOE Comment: This stand looks like it was part of an old beaver flooding. Currently the water is down. The ground cover is mainly cattails and marsh grass. There are still some overstory snags present in the stand.			
12	4130 - Aspen	Poletimber Well	7.8	24	81-110	N/A	<p>2024 YOE Comments: Highly index aspen stand. Now in the pole class. 2014 YOE Comment: This was a 2" spec final harvest. It was harvested in 1997. Regeneration is good being around 100% crown closure. There are pockets of lowlands. However much of the stand is uplands.</p> <p>1998: Stand harvested under contract 73-066-95-01, Heron House Aspen. Cut 2" and up except for scattered cedar and hemlock.</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		20	Pole/Sapling	5		Serviceberry (Juneberry)		Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen		70	Pole/Sapling	5	24	Tag Alder		Low	5 - 10 feet	Tall Shrub
Red Maple		10	Sapling	3		Witch Hazel		Medium	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
13	6113 - Lowland Maple	Sawtimber Well	130.7	101	81-110	N/A	<p>2024 YOE Comments: Canopy gaps are filling in with ash, aspen, birch and oak. Regeneration is concentrated along the perimeter of the openings. The dominant regeneration throughout the stand is musclemwood. Upland knob in the center of the stand is true northern hardwood. Very southern range for this cover-type. Keep this cover-type intact.</p> <p>2014 YOE Comments: The stand is undulating to hummocky. It is a matrix of uplands and lowlands with the lowlands being about 75%. This stand was marked making 1 regeneration opening per acre where the soils were operable. Skid trails were also marked between the openings on the driest ground available. Some scattered upland aspen ridges were heavily marked to make patch clear cuts. The regeneration openings range from 0.05 to 0.2 acres and some of the patch clear cuts were around 1 acre. The harvest was completed in November 2007. It removed about 18 sq ft, retaining around 65 sq ft. The regeneration in the gaps was poor overall. The regeneration gaps that had an aspen component are regenerated fair. However, many regeneration gaps are filling in with raspberry and blackberry.</p> <p>2008: Stand harvested under contract 73-028-04-01, Deer-Estey Harvest. Regeneration gaps and skid trails marked throughout the stand. Removing approximately 18 BA.</p>																																																																								
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14	6113 - Lowland Maple	Poletimber Poor	13.6	44	1-50	N/A	<p>2024 YOE Comments: Ash mortality has caused the canopy to open up even more. Harwood regeneration is present in the understory. Will eventually succeed into the canopy.</p> <p>2014 YOE Comment: This stand was cut in 1968 as part of the DRIP program. The stand was part of an old beaver flooding. The current overstory trees are the ones that didn't die off when the stand was flooded. The beaver chews around the edges of the stand are old.</p> <p>1978 Comments: Harvested under contract 11-78A.</p>																																																																								
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16	4130 - Aspen	Poletimber Well	40.4	44	111-140	N/A	<p>2024 YOE Comments: Above average site quality for the compartment.</p> <p>2014 YOE Comment: This stand was cut in 1968 as part of the DRIP program. The terrain is undulating. The site index appears to be high for the tree form is good. Many of the trees are 6 sticks tall.</p> <p>1978 Comments: Harvested under contract 11-78A.</p>																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17 6113 - Lowland Maple Sawtimber Medium 33.6 89 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Swamp White Oak	15	Log/Pole/XLog	10	
Red Maple	70	Log/Pole/XLog	12	89
Red Oak	10	Log/XLog/Pole	14	
Bigtooth Aspen	5	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Green Ash	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling
Musclewood/Hornbeam	Medium	5 - 10 feet	Sapling

2024 YOE Comments: Minimal regeneration from harvest at this point. A few aspen pockets did regenerate. Hardwood regeneration is expected to take several decades to establish.

2015 Comments: Harvested October of 2015 under contract # 73-001-14-01 Estey Blend. Stand was marked down to 68 sp. ft. on average and no single species was eliminated however aspen and birch were targeted. Low wet areas were removed from harvest boundary.

2014 YOE Comments: The terrain is hummocky to undulating. It is a matrix of uplands and lowlands with the lowlands being the majority. There are portions of the stand that are operable. The Midland to Mackinaw trail goes through the stand.

18 3301 - Low Density Deciduous Trees Nonstocked 1.8

2014 YOE Comment: This is an old oil tank battery location. It was abandoned and moved to the state land to the east of Deer Road. It is starting to fill in with aspen and birch. In addition it appears that some red pine was planted on the site.

19 6113 - Lowland Maple Poletimber Well 15.0 101 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	2	Pole	5	
Green Ash	5	Pole	6	
Cottonwood	10	XLog	28	
Red Maple	73	Log/Pole/Sap	10	101
Swamp White Oak	10	Log/Pole/Sap	10	

2024 YOE Comments: Ash mortality throughout the stand. Lots of down woody debris.

2014 YOE Comment: The stand is very wet with a lot of standing water. The stand has a component of cottonwood and ash. The ash in it does not have sign of EAB yet. There is not much ground cover. The standing water is usually present until late June or early July.

20 6113 - Lowland Maple Poletimber Medium 11.6 24 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	10	Pole/Sapling	5	24
Red Maple	60	Pole/Sapling	5	24
Green Ash	5	Sapling	3	
Quaking Aspen	25	Pole/Sapling	5	24

Sub-Canopy Species	Density	Avg. Height	Size
Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Willow spp.	Medium	5 - 10 feet	Tall Shrub
Common Blackberry	Low	< 5 feet	Tall Shrub
Tag Alder	Medium	10 - 20 feet	Tall Shrub

2024 YOE Comments: Boundary updated. North area removed. Canopy closure is below 75%. Open areas dominated by alder/holly/willow as well as sparse tree density on the upland ridge. Maple is the dominant tree species overall.

2014 YOE Comment: The terrain is hummocky. There is cedar at the north end of the stand. There are a lot of wet openings that are heavy to tag alder and willow. There is a dry ridge that runs east to west through the central portion of the stand. This stand was harvested as a 2" DBH final harvest in 1997. The regeneration is not very uniform.

1998: Stand harvested under contract 73-066-95-01, Heron House Aspen. Cut 2" and up except for scattered cedar and hemlock.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
21	6112 - Lowland Aspen	Sapling Well	22.5	13	Immature	N/A	2024 YOE Comments: Canopy closure has increased, now over 75%. Tree saplings are overtaking understory shrubs. 2014 YOE Comments: This was a 4" spec final harvest. The record of inspection said that the damage to the residual was high but within the acceptable limits. There were trees left along the M to M trail. The harvest was completed in January 2008. The soils appear to be wetter now; then they were when it was set up. The regeneration is patchy. There are dryer areas in the stand that are fully stocked. There are also areas that are low and wet that are mainly cattails and marsh grass.																																																		
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22	629 - Mixed non-forested wetland	Nonstocked	13.0			No	2024 YOE Comment: Stand condition still the same. 2014 YOE Comment: This is an old beaver flooding that is still mainly marsh grass and cattails. There are some lowland shrubs and some mix lowland deciduous trees present. They are now filling in around the perimeter. However the stand is still very open.																																																		
23	6112 - Lowland Aspen	Poletimber Well	101.2	44	81-110	N/A	2024 YOE Comments: Stand switched from upland to lowland. From road edges this stand appears to be upland. Majority is low ground.																																																		
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24	6112 - Lowland Aspen	Sapling Poor	66.5	6	Immature	N/A	2024 YOE Comments: Switching stand to lowland. Standing water throughout the stand during inventory. Patches of aspen regeneration on higher ground, approximately 30% cover. Birch seedlings filling in gaps. A few maple seedlings noted but browse pressure is heavy. Herbaceous plants and lowland shrubs occupy low areas of the stand. Tree cover will fill in over time for most areas of the stand. Accept regeneration.																																																		
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Red Maple	Low	< 5 feet	Seeding																																																						
25	3105 - Mixed Upland Herbaceous	Nonstocked	2.1			No	2024 YOE Comments: Scotch pine also filling in this stand. 2014 YOE Comment: The stand was an old shooting range. It is now grassy but it is filling in with upland brush and birch.																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
26	6229 - Mixed lowland shrub	Nonstocked	6.2			No	2024 YOE Comments: Stand maintained by near by beaver activity which periodically floods the stand. Lowland shrubs and hardwood saplings are slowly colonizing the site. Beaver activity is present to the south. 2014 YOE Comment: This stand is an old beaver flooding. It is now filling in with tag alder.																																									
27	6112 - Lowland Aspen	Sawtimber Medium	10.7	44	51-80	N/A	2024 YOE Comments: Beaver activity present in floodings. These areas have sparse maple. Edges of the flooding are dense log/pole aspen. Western portion is harvestable. 2014 YOE Comment: The stand is variable in density. In the past it looks to have had two small short term beaver flooding. In those areas the ground cover is marsh grass with some scattered trees. The terrain is hummocky and it is in a depression. 1978 Comments: Harvested under contract 11-78A.																																									
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28	6113 - Lowland Maple	Sawtimber Well	37.5	82	81-110	N/A	2024 YOE Comments: Updated boundary. Merged with stand to the south. Removed dead ash pocket. Both former stands are a mix of maple log pockets, aspen log over/maple pole pockets and sparse birch pockets. Switched to even-aged. Maple poles are younger than main canopy but not by much. 2014 YOE Comment: The stand is mainly lowlands, but there are inclusions of uplands. Birch is heaviest at the north end but it is declining. Much of the stand is hummocky and wet.																																									
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29	6239 - Mixed Emergent Wetland	Nonstocked	10.5			No	2024 YOE Comments: Surrounding stand harvested in 2015. May effect the hydrology of this stand. 2014 YOE Comment: The stand is a series of interconnected wetlands. The cover type goes from marsh grass to low density trees.																																									
30	320 - Upland Shrub	Nonstocked	24.4	2021		413 - Aspen	2024 YOE Comments: Regeneration cover is under 25% of the stand area. Primary tree species is aspen. Birch seedlings are filling in along lowland borders of the stand. Eventually this stand will fill in and switch to forested. Except regeneration levels based on assumption they will increase over time. 2016: Harvested 2" and up October of 2015 under contract # 73-001-14-01 Estey Blend. 2014 YOE Comments: The stand is made up of a series of dry ridges. Some of the areas are sparsely treed while other areas are dense. The birch and aspen is declining. The terrain is undulating.																																									
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31	629 - Mixed non-forested wetland	Nonstocked	11.8			No	2014 YOE Comment: This stand is a mixture of water, marsh grass, cattails, lowland brush, and scattered ash.																																									



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32	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	23.7	44	51-80	N/A	2024 YOE Comments: New stand. Split out from adjacent aspen stand. Less aspen and more maple birch. Aspen is mostly along the oil and gas road. 2008 YOE Comments: The stand is regenerating well and it is an A6. The stand has 1 main ridge which a 2-track that is high and dry. The rest of the stand has a lot of up and down. The low area are variable ranging from A4/L to A6. The main aspen species is quaking aspen. The upland ranges from A4/G to A6 it is mainly bigtooth aspen. The area is also mixed with red maple and balsam poplar. 1978 Comments: Harvested under contract 11-78A.																																											
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33	6239 - Mixed Emergent Wetland	Nonstocked	25.8			No	2024 YOE Comments: Flooding is still active. 2014 YOE Comment: This is an active beaver flooding however water levels are lower now than in previous decades which has allowed herbaceous vegetation to grow.																																											
34	629 - Mixed non-forested wetland	Nonstocked	4.1			No	2014 YOE Comment: The stand is a mix non-forested wetlands that goes from marsh grass to lowland shrubs to low density tree. The ground cover is marsh grass.																																											
35	6239 - Mixed Emergent Wetland	Nonstocked	5.3			No																																												
36	6229 - Mixed lowland shrub	Nonstocked	2.0	0		No	2024 YOE Comments: New stand. Non-forested lowland split out from surrounding P-Type. 2014 YOE Comment: The terrain is hummocky. The stand is a matrix of uplands and lowlands with the uplands being the majority. It is currently self thinning, so there is a significant amount of down woody material. This stand was cut in 1968 as part of the DRIP program.																																											
37	4130 - Aspen	Poletimber Well	68.3	35	81-110	N/A	2024 YOE Comments: Stand is a solid pole stand. North edge of stand is lower and not as well stocked. 2014 YOE Comment: This stand was final harvested in 1986. The terrain is undulating with some hummocky areas. The stand has inclusions of lowlands. 1986: Stand was harvested under contract 73-004-85-01. Cut 4" and up.																																											
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38	629 - Mixed non-forested wetland	Nonstocked	13.4			No	2014 YOE Comment: This is a low wet depression that has shrubs around the perimeter. However most of the stand is marsh grass and cattails with some pockets of open water.																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
39	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	8.4	82	51-80	N/A	2024 YOE Comments: Birch and aspen still declining. Very open understory. 2014 YOE Comment: The stand is on a ridge that was not harvested when the stand to the west was. It has a high percentage of birch and aspen. Both are declining. Access to the stand is limited. The terrain is rolling with the lower areas being hummocky. The red maple is filling in from the sides. Let the stand progress naturally. The volume, acreage, tree quality and trees soundness are to low to counter the expense of building the access to the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		45	Log/Pole	11	82	Common Blackberry		Low	< 5 feet	Tall Shrub	
Bigtooth Aspen		30	Log	14	82	Red Maple		Low	10 - 20 feet	Sapling	
Black/Red (Hybrid) Oak		5	Log	11		Serviceberry (Juneberry)		Low	5 - 10 feet	Tall Shrub	
Paper Birch		20	Log/Pole	10							
40	6113 - Lowland Maple	Sapling Poor	25.8	36	1-50	N/A	2024 YOE Comments: Boundary adjusted. Aspen pockets placed in adjacent stands. Edge stand with aspen/maple/birch over lowland shrubs. Ash mortality has increased shrub component and reduced canopy closure. 2014 YOE Comment: This stand is a matrix of uplands and lowlands. The lowlands are the majority. The uplands are on slight ridges. The ridges are the areas that have the highest percentage of aspen and birch. However, most of the stand is red maple with some green ash.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		10	Sapling/Pole	4		Tag Alder		Full	5 - 10 feet	Tall Shrub	
Red Maple		65	Sapling/Pole	4	36						
Quaking Aspen		25	Pole/Sapling	6	36						
41	6112 - Lowland Aspen	Sawtimber Medium	7.2	101	1-50	N/A	2024 YOE Comments: Aspen still declining. A lot of ash in the sub-canopy. Other hardwoods include swamp white oak, elm, maple, cherry. Still mostly dominated by lowland shrubs. 2014 YOE Comment: The terrain is hummocky. The aspen is declining throughout the stand. There is a lots of tag alder and raspberry in the understory.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		28	Log/Pole	10	66	Red Maple		Low	5 - 10 feet	Sapling	
Quaking Aspen		60	Log	12	101	Green Ash		Medium	5 - 10 feet	Sapling	
Swamp White Oak		10	Pole/Sap/Log	10		Tag Alder		High	10 - 20 feet	Tall Shrub	
Paper Birch		2	Pole	5		Swamp White Oak		Medium	5 - 10 feet	Sapling	
						Blackberry/Raspberry		Low	< 5 feet	Tall Shrub	
						Dogwood (spp.)		Medium	5 - 10 feet	Tall Shrub	
42	4112 - Maple, Beech, Cherry Association	Poletimber Medium	24.8	90	51-80	N/A		2024 YOE Comments: Switched from two-aged to even-aged. Minimal regeneration from previous harvest. Good release of sapling understory red maple. Average DBH was reduced to reflect in growth into the canopy. 2014 YOE Comments: The stand was harvested by a species removal of aspen and birch. This left it with a variable residual. The current crown closure ranges from 50 to 100%. The aspen in the stand was mainly on the uplands. The residual BA from the harvest was around 40 sq ft; however it ranges from 20 to 70 sq ft. The harvest was completed in December 2007. The terrain is hummocky. The soils are wetter in the western portion of the stand. The aspen has regenerated in pockets in the eastern 1/3 of the stand. There are also pockets of other types of regeneration scattered in the stand. 2008: Stand harvested under contract 73-028-04-01, Deer-Estey Harvest. Cut all aspen and birch 2" and up.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
White Oak		5	Pole/Log	8		Aspen (spp.)			Low	< 5 feet	Sapling
Red Maple		80	Pole/Log	9	90	Black/Red (Hybrid) Oak			Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak		15	Pole/Log	8		Red Maple			Medium	10 - 20 feet	Sapling
						Common Blackberry			Low	< 5 feet	Tall Shrub
						Musclewood/Hornbeam			Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
43	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	6.0	66	1-50	N/A	2024 YOE Comments: Updated stand age to 65 based off tree ring samples. Also cover-type is now mixed deciduous. Stand density is also increasing but has not exceeded 75% canopy closure. This is a result of ingrowth from hardwood saplings. 2014 YOE Comment: The stand is a sparse ridge. The ground cover is mainly bracken fern and grass. There are pockets low wet ground.																																																												
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44	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	19.3	66	51-80	N/A	2024 YOE Comments: New stand. This area was not cut in 1985. Sparse aspen succeeding to maple and other hardwoods. Red maple varies in diameter and slightly in age. Most originated between 1950 and 1960. Stand is moving toward uneven aged. North area of the stand is wet with a heavy alder/holly understory. A man made ditch runs through the stand in the south. 2014 YOE Comment: The stand was harvested in 1985. The terrain is hummocky and it is a matrix of uplands and lowlands with the lowlands being 80%. The soils are dryer along Deer Road and along stand 46.																																																												
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45	4130 - Aspen	Poletimber Medium	11.3	23	Immature	N/A	Still moderately stocked. little in growth, open understory. Aspen average 7 inches in open portions of the stand. 2014 YOE Comment: This stand was harvested to 2" DBH in 1998. The regeneration is a mixture of red maple and aspen with some oak. The density is variable. It averages between 50% and 75% crown closure. It is also a matrix of uplands and lowlands. The uplands make up about 55%. The regeneration is in pockets and it is heaviest in the western 1/2 of the stand. The terrain is hummocky. 1998: Stand harvested under contract 73-066-95-01, Heron House Aspen. Cut 2" and up except for scattered cedar and hemlock.																																																												
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46	629 - Mixed non-forested wetland	Nonstocked	12.6			No	2014 YOE Comment: This is a low wet depression of marsh grass and cattails. Lowland shrubs are present around the perimeter with some scattered lowland trees.																																																												
47	6112 - Lowland Aspen	Poletimber Medium	18.7	35	51-80	N/A	2024 YOE Comments: Aspen is large diameter for its age due to low stocking. Heavy understory of woody shrubs herbaceous ground cover. Good wildlife stand. 2014 YOE Comment: The stand was harvested in 1985. The terrain is hummocky and it is a matrix of uplands and lowlands with the lowlands being 80%. The soils are dryer along Deer Road and along stand 46. 1986: Stand was harvested under contract 73-004-85-01. Cut 4" and up.																																																												
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48	6112 - Lowland Aspen	Poletimber Medium	19.6	34	51-80	N/A	2024 YOE Comments: Stand boundary updated. This stand is primarily lowland with several upland islands. Aspen dominates both upland and lowland. Low areas are either marsh grass or alder/willow/dogwood. 2014 YOE Comment: The terrain in the stand is hummocky and it is a mixture of uplands and lowlands. The uplands are the majority of the stand. There are inclusions of lowland shrubs and areas of trees over marsh grass.																																																
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49	6220 - Alder/willow	Nonstocked	6.4			No	2024 YOE Comments: Alder/willow dominate most parts of this stand. 2014 YOE Comment: This stand is a series of interconnected wetlands. They are mainly marsh grass. Lowland shrubs are present along the perimeter as well as some scattered swamp hardwoods.																																																
50	6113 - Lowland Maple	Sawtimber Medium	25.7	90	81-110	N/A	2024 YOE Comments: Minimal regeneration in gap cuts. Primarily filled with herbaceous vegetation. Deer browse is most likely a contributing factor. Good release of pole/sapling maple and oak throughout the stand. Birch and aspen still standing. Not enough volume to warrant removal. Let released pole class mature then thin. 2014 YOE Comments: This stand was marked making 1 regeneration opening per acre were the soils were operable. Skid trails were also marked between the openings on the driest ground available. The regeneration openings ranged from 0.03 to 0.12 acres. The harvest was completed in November 2007. It removed around 18 sq ft and retained around 65 sq ft. The terrain is hummocky. There are some areas of standing water. The birch and aspen have a low percentage of soundness. Most of the regeneration holes did not regenerate. There is evidence of heavy deer browse. 2008: Stand harvested under contract 73-028-04-01, Deer-Estey Harvest. Regeneration gaps and skid trails marked throughout the stand. Removing approximately 18 BA.																																																
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51	629 - Mixed non-forested wetland	Nonstocked	162.3			No	2024 YOE Comments: No beaver activity present. Button bush growing in clumps throughout the marsh. Timber islands surrounded by tag alder and michigan holly. 2014 YOE Comment: This was once a large beaver flooding that is now drained. There are many small islands and ridges of trees going into the stand. On one of these islands of trees there is an eagle's nest. These trees do not have a crown closure greater than 15%. The ground cover between the islands is mainly marsh grass and cattails.																																																



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52	6113 - Lowland Maple	Sawtimber Medium	47.2	80	51-80	N/A	2024 YOE Comments: Regeneration is limited to higher areas of the stand, mostly aspen. Best regeneration is along the north edge. Low areas are marsh grass. Management objective is lowland maple. Accept regeneration. Will take multiple decades to fill in completely.																																																					
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53	4125 - Black, N. Pin Oak	Sapling Poor	10.1	25	1-50	N/A	2024 YOE Comments: Some new growth of swamp white oak. Stand has regressed in terms of canopy closure with the loss of ash. Barley forested.																																																					
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54	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	41.1	89	81-110	N/A	2024 YOE Comments: Aspen still in process of dying out. Ash is now gone from the stand. Gaps are slowly being formed for maple saplings to succeed into. Let this process continue. 2014 YOE Comment: The terrain is hummocky. The soils are dryer along the east and west sides of the stand and it is fairly wet through the center. Green ash and cottonwood are mainly in the central portion. Aspen and birch are more common along the east and west edges. The aspen and birch are overmature. They would not be expected to regenerate if they were harvested. Let these species die off and convert the stand to mixed lowland deciduous.																																																					
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55	6114 - Lowland Oak	Sapling Medium	11.9	24	Immature	N/A	2024 YOE Comments: Canopy closure increasing. Now above 50%. This process will continue as more saplings grow above browse height. 2014 YOE Comment: This stand was harvested in 1996 as a 2" spec final harvest. The stand did not regenerate well. The soils were heavily ruttled during the harvest. The swamp white oaks are being heavily browsed by deer. At the current time some of the regeneration is now getting ahead of them. There are areas in the stand that have no trees and are just marsh grass and shrubs. The terrain is hummocky.																																																					
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56	6113 - Lowland Maple	Poletimber Well	28.2	33	51-80	N/A	2024 YOE Comments: Switched stand from upland to lowland. Leaf off imagery shows upland but after field check. land position is closer to lowland. Also covertime is switching from aspen. Dense maple poles with sparse aspen. 2014 YOE Comment: The stand was harvested in 1988. It is on a ridge that grades from aspen to red maple. The middle arm has a significant component of birch. The northern portion has inclusions of lowlands. There ridges have upland openings as well.																																												
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57	6229 - Mixed lowland shrub	Nonstocked	7.3			No	2014 YOE Comment: The stand is low and wet and is mainly tag alder over marsh grass. There are some red maple, green ash, paper birch, and swamp white oak present in the stand but they make up less than 15% of the crown closure. 1988: Stand harvested in 1988 under contract 73-003-87-01, S.T.S - 52. Cut all trees 2" and up.																																												
58	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	34.4	33	1-50	N/A	2024 YOE Comments: Stand switched from aspen to hardwood cover type. Stand boundaries updated. Canopy closure below 75% due to ash mortality. Swamp white oak will fill in the gap. 2014 YOE Comment: The stand was harvested in 1988. It is in the depressions between upland ridges. They have a high percentage of tag alder in the understory. The trees species have a greater density along the west side of the stand. 1988: Stand harvested in 1988 under contract 73-003-87-01, S.T.S - 52. Cut all trees 2" and up.																																												
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59	4130 - Aspen	Poletimber Medium	12.1	53	51-80	N/A	2024 YOE Comments: Stand split out from larger former stand. Full to moderately stocked aspen running along an upland ridge. Canopy closure is lower in the western end of the stand. 2014 YOE Comment: The terrain is hummocky. The stand is a matrix of uplands and lowlands with the uplands being the majority. It is currently self thinning, so there is a significant amount of down woody material. This stand was cut in 1968 as part of the DRIP program.																																												
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60	629 - Mixed non-forested wetland	Nonstocked	5.0			No	2024 YOE Comments: Unclear if this stand was a part of the 1988 cut. Regeneration of any woody stemmed plant is minimal. 2014 YOE Comment: This stand is mainly marsh grass. Lowland shrubs are present along the perimeter as well as some scattered swamp hardwoods. 1988: Stand harvested in 1988 under contract 73-003-87-01, S.T.S - 52. Cut all trees 2" and up.																																												
61	6220 - Alder/willow	Nonstocked	12.6			No	2014 YOE Comment: The stand is low and wet and is mainly tag alder over marsh grass. There are some red maple, green ash, paper birch, and swamp white oak present in the stand but they make up less than 15% of the crown closure. 1988: Stand harvested in 1988 under contract 73-003-87-01, S.T.S - 52. Cut all trees 2" and up.																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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62	629 - Mixed non-forested wetland	Nonstocked	2.9			No	2014 YOE Comment: This is a low wet drainage. It is heavy to tag alder and red osier dogwood over marsh grass and cattails. There are some widely scattered paper birch in the stand. 1988: Stand harvested in 1988 under contract 73-003-87-01, S.T.S - 52. Cut all trees 2" and up.
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63	500 - Water	Nonstocked	14.7			No	2014 YOE Comment: Beaver Flooding
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64	3301 - Low Density Deciduous Trees	Nonstocked	1.8			No	2014 YOE Comment: This stand was harvested in 2006 with the stand to the south in compartment 91. The regeneration is poor mainly due to deer browse. There are some areas of lowlands in the stand but they make up less than 35% of the area. The ground cover goes from blackberry/bracken fern to tag alder/marsh grass. 1988: Stand harvested in 1988 under contract 73-003-87-01, S.T.S - 52. Cut all trees 2" and up.
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65	4139 - Aspen, Mixed Deciduous	Poletimber Well	41.7	43	51-80	N/A	2024 YOE Comments: Stand is now in the pole class. High proportion of saplings still present. Hold this stand another 10 years, then harvest.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	15	Pole/Sapling	6	43
Black/Red (Hybrid) Oak	10	Pole	7	
Red Maple	30	Pole/Sapling	5	43
Bigtooth Aspen	25	Pole	7	43
Quaking Aspen	20	Pole	7	43

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

2008 YOE Comment: The stand is somewhat variable with most of it being upland though there are inclusion of lowland. There are some pole now showing up and should be an A6 in 10 years.

1978 Comments: Harvested under contract 11-78A.

66	6112 - Lowland Aspen	Poletimber Well	56.9	43	81-110	N/A	2024 YOE Comments: Pockets of aspen blow down throughout the stand. Canopy closure is still greater than 75%. Better site index in this stand than surrounding stands. Some areas of the stand are too wet to manage. More towards Deer Rd. Surface water flow is towards Deer Rd.
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Canopy Species	% Cover	Size Class	DBH	Age
Cottonwood	5	Log	16	
Quaking Aspen	50	Pole/Log	8	43
Paper Birch	10	Pole/Sapling	6	43
Black/Red (Hybrid) Oak	5	Pole/Log/Sap	7	
Swamp White Oak	5	Log/Pole	10	
Red Maple	25	Pole/Sapling	6	43

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

2008 YOE Comment: Stand is a P-type in wetness not in species present the majority of the aspen in the stand is trembling aspen. The soil is hummocky being made up of dry knolls with wet swales the low wet ground covers more area then the dry knolls. The species mix is trembling aspen, red maple, and ash. The stand does dry out in late summer and will be able to be harvested in the future. Also along deer road there is a narrow strip of mature aspen but not enough area to make a separate stand.

1978 Comments: Harvested under contract 11-78A.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
67	4199 - Other Mixed Upland Deciduous	Sapling Medium	5.8	22	Immature	N/A	<p>2008 YOE Comment: The stand was cut and has regenerated as a medium stocked maple and oak stand. The west side of the stand is sparse closer to a level 1 stocking and going to a level 3 stocking east. The soil go from Wainda-Deford to Rousseau to Roscommon-Deford. Overall the stand is upland but there are diffinate area that are low and wet.</p> <p>1998: Stand harvested under contract 73-018-98-01, Estey Strips. All trees harvested 2" and up.</p>																																				
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68	6113 - Lowland Maple	Poletimber Poor	8.9	42	1-50	N/A	<p>2024 YOE Comments: Ash mortality has reduced canopy closure. Enough maple and swamp white oak present to maintain forested cover-type.</p> <p>2008 YOE Comment: The stand is a low wet stand of mainly tag alder, button bush, and willow with some swamp hardwood regeneration. The main tree species are green and black ash; with some swamp white oak, red maple and black willow.</p> <p>1978 Comments: Harvested under contract 11-78A.</p>																																				
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69	3102 - Grass	Nonstocked	0.9			No	<p>2024 YOE Comments: Site is revegetated.</p> <p>2008 YOE Comment: This area appears to have had an oil spill. As of 10/3/2006 the site has been dug out then fill in and was in the process of being top dressed. I expect the area to be seeded before winter.</p>																																				
70	3102 - Grass	Nonstocked	0.5	2021			2020 Oil and Gas Review Comment: OPIC - FMD: Harvested Oct 2012; Sale 19-08. Producing oil well permit 18168																																				
71	310 - Herbaceous Openland	Nonstocked	0.9				<p>2024 YOE Comments: Pumper jack and pump house. Equipment looks to be in disrepair. 2020 Oil and Gas Review Comment: OIL/GAS WELL SITE producing well permit 17324</p>																																				
72	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	5.1	42	1-50	N/A	<p>2024 YOE Comments: Sparse open stand. Aspen/maple blowdown scattered throughout.</p> <p>2008 YOE Comment: The area is a mixed aspen and red maple stand that is mostly upland. There was some residual oak left when ti was harvest but it is widely scattered. Most of the aspen in the stand is at the south end of the stand.</p> <p>1978 Comments: Harvested under contract 11-78A.</p>																																				
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73	6113 - Lowland Maple	Sawtimber Medium	13.1	92	51-80	N/A	<p>2024 YOE Comments: Canopy closure is below 75% due to ash and aspen mortality. A lot of downed woody debris. Canopy gaps are expected to fill in with hardwood.</p> <p>2008 YOE Comment: The stand is a mix of large wet swales with scattered dry knolls. The stand ranges from E9 to E4/L. The habitat is PARVCo</p>																																				
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74	6113 - Lowland Maple	Poletimber Poor	14.8	96	1-50	N/A	2024 YOE Comments: Ash and aspen are mostly gone. Canopy closure is around d 25%.2008 YOE Comment: Stand is in a drainage and is very wet. There are some dry knolls in the stand but overall the stand is wet. The overstory aspen is dying. The regeneration present in the stand is a mix of red maple, swamp white oak, and ash.																																							
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75	622 - Lowland Shrub	Nonstocked	2.0			No	2008 YOE Comment: This is part of stand 10 that did not regenerated and converted to a lowland brush type.																																							
76	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	9.1	20	Immature	N/A	2024 YOE Comments: Canopy closure is below 75%. Mix of low wet ground and upland areas. 2008 YOE Comment: OPIC - FMD: Stand has come back as a level 2 stocking of aspen and maple. The aspen regeneration is mainly in pockets not evenly distributed. When the stand was cut maple and oak 4" DBH was left. Most of the regeneration that is not aspen is single stem oak and maple. The stand also has pockets of L-Type. 1998: Stand harvested under contract 73-018-98-01, Estey Strips. All trees harvested 2" and up.																																							
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77	3104 - Degraded	Nonstocked	1.4				2020 Oil and Gas Review Comment: OIL/GAS WELL SITE Permit 13955. Pumper and battery tank.																																							
78	4130 - Aspen	Poletimber Well	21.4	43	81-110	N/A	2024 YOE Comments: Canopy closure is now over 75% due to red maple ingrown. Aspen is decent quality best along lowland borders. Tops of ridges are sparse with aspen in places. 2008 YOE Comment: The stand is dry and is regenerating as and A4A2M2. The stand is very similar to stand 4. 1978 Comments: Harvested under contract 11-78A.																																							
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79	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	23.2	42	51-80	N/A	2024 YOE Comments: Ash component is mostly gone. Stand has just reached the pole class. Some very wet pockets but overall not too wet for management. Sparse aspen ridge inclusion. 2008 YOE Comment: The stand is low and wet heavy to red maple and ash with some trembling aspen. There is also a component of paper birch and black ash. 1978 Comments: Harvested under contract 11-78A.																																							
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80	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	13.8	42	51-80	N/A	2024 YOE Comments: Stand managed 40+ yes ago with surrounding stands. Residual hardwood left behind was considerably more dense, creating a two-aged stand. Residual hardwood was swamp white oak. Aspen spread throughout the stand, some areas denser than others. Blow over occurring in pockets. 2008 YOE Comment: The area is low and wet with area of standing water especially in the spring. The trees species in the stand are red maple and ash. 1978 Comments: Harvested under contract 11-78A.																																																						
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81	6229 - Mixed lowland shrub	Nonstocked	1.1	0		No	224 YOE Comments: New stand. Lowland brush pocket. 2008 YOE Comment: The stand is regenerating well and it is an A6. The stand has 1 main ridge which a 2-track that is high and dry. The rest of the stand has a lot of up and down. The low area are variable ranging from A4/L to A6. The main aspen species is quaking aspen. The upland ranges from A4/G to A6 it is mainly bigtooth aspen. The area is also mixed with red maple and balsam poplar.																																																						
82	6229 - Mixed lowland shrub	Nonstocked	5.9		Unspecified	No	2024 YOE Comments: Most of the ash has died. Scattered paper birch along edges. 2008 YOE Comment: The stand is in a low wet depression that is mainly tag alder around the edges going to cattails and marsh grass. Black ash is present but it is scattered through out the stand but it is not greater than 10 BA. 1978 Comments: Harvested under contract 11-78A.																																																						
83	3104 - Degraded	Nonstocked	0.7				2020 Oil and Gas Review Comment: OIL/GAS WELL SITE has been closed and the hardware removed. The stand is now just a grassy opening. Permit 15709.																																																						
84	3104 - Degraded	Nonstocked	0.5				2020 Oil and Gas Review Comment: OIL/GAS WELL SITE																																																						
85	6113 - Lowland Maple	Poletimber Poor	27.2	65	1-50	N/A	2024 YOE Comments: Pole stand with scattered log sized trees. Regeneration varies. A couple good pockets of aspen regeneration. Most of the stand has sparse lowland hardwood regeneration or dense lowland shrubs.2012: Stand harvested under contract 73-019-08-01, South Bentley. Removed aspen 2" and up. Marked to cut other trees to facilitate operations. Residual BA was 25.																																																						
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86	3104 - Degraded	Nonstocked	0.9				2020 Oil and Gas Review Comment: OIL/GAS WELL SITE plugged 9/20/1943 permit 5641																																																						



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87	3202 - Autumn Olive/Honeysuckle	Nonstocked	1.4			No	2008 YOE Comment: This is a opening that appears to have been put in by the private landowner to the south. The access to the site is though that property. The stand has autumn olive planted along the north edge and the rest of the stand has cottonwood starting to seed in.																																												
88	3104 - Degraded	Nonstocked	2.4			No	2008 YOE Comment: stand is open but filling in with trees. Currently it is still a G-type but may classify out as a treed stand in 10 years. The stand has several narrow drains in it that are currently forested. Oil permit 4730																																												
89	4130 - Aspen	Sawtimber Well	33.2	60	81-110	N/A	2024 YOE Comments: Mature aspen stand. Average site condition. Some regeneration concern due to high deer numbers. A man-made drain runs along southern border. 2008 YOE Comments: The stand is a broad ridge with some low land pockets with in the stand the soil are very variable under the stand .																																												
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90	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	19.2	96	1-50	N/A	2024 YOE Comments: Good aspen regeneration in North and West portions of the stand. Regeneration in SE corner is sparse. Some sapling and pole sized maple/oak were released after harvest. Residual trees cover over 25% of the stand area. 2012: Stand harvested under contract 73-019-08-01, South Bentley. Removed all aspen 2" and up. Marked to cut other trees in order to facilitate harvest. Residual BA was 45. Advanced residual present and protected. 2008 YOE Comments: Stand is a mix of knolls and swales. The knolls are heavy to aspen and the swales heavy to swamp hardwoods. Harvest but removing the aspen.																																												
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91	6113 - Lowland Maple	Sapling Medium	12.2	50	1-50	N/A	2024 YOE Comments: Switched stand to forested. Canopy closure around 50%. Would be closer to 75% if ash mortality hadn't occurred. Both maple and oak have older, larger components present. Stand is very wet. 2008 YOE Comments: the stand is low and wet the eastern point is a leatherleaf bog but the majority of the stand is lowland brush. The area has swamp hardwood scattered through out the stand but currently it appears to not have enough density to be considered stocked. The stand does appear to be filling in with swamp hardwood and may be a stocked E-Type in 10 years.																																												
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92	6229 - Mixed lowland shrub	Nonstocked	5.7			No	2008 YOE Comments: This stand is in a depression that is heavy to cattail, short shrubs and marsh grass in the center of the stand with the edges thick with tag alder and willow.																																												
93	6229 - Mixed lowland shrub	Nonstocked	1.3			No	2008 YOE Comments: This stand is in a depression that is heavy to cattail, short shrubs and marsh grass in the center of the stand with the edges thick with tag alder and willow.																																												



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94	4130 - Aspen	Sapling Poor	12.6	10	Immature	N/A	2024 YOE Comments: Variable density regeneration. Center of the stand has a dense aspen clone. East end of the stand is sparse and more wet. Phragmites present in the stand.2012: Stand harvested under contract 73-019-08-01, South Bentley. Cut all trees 2" and up. No retention.																																									
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95	6114 - Lowland Oak	Sawtimber Medium	8.7	96	51-80	N/A	2024 YOE Comments: Primary regeneration is ash followed by swamp white oak. Understory shrubs are dense in pockets. Average BA now is 80 -90. Let this stand continue. Canopy is still quite open.2008 YOE Comments: Stand was harvested and a residual BA was left of mainly red maple, green ash, and swamp white oak, The stand has some regeneration but it is coming in slowly from seed souce not stump sprouts. Currently the regeneration is a light E2 with much of it being the advance regeneration that was left after the harvest. The is some seed source regeneration now showing up.2001: Stand harvested under contract 73-031-00-01, Swinson Thinning. Cut all aspen, cottonwood, and birch 4" and up. Marked to cut oak, red maple, and mixed hardwood to reduce residual BA to 70.																																									
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96	622 - Lowland Shrub	Nonstocked	3.9			No	2024 YOE Comments: Dead ash overstory is falling down.2008 YOE Comments: This stand is low and wet heavy to tag alder and michigan holly																																									
97	6229 - Mixed lowland shrub	Nonstocked	9.0			No	2024 YOE Comments: Canopy closure below 25%. Scattered maple, swamp white oak, ash. Dense lowland shrub ground cover.																																									
98	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	31.1	55	51-80	N/A	2024 YOE Comments: Aspen is still in process of dieing out. Awesome cohort of co-dominant/understory single stem red maple. Let the process continue.2008 YOE Comments: The stand is low and wet. The aspen in the stand is declining. Let the aspen die out and convert fully to a swamp hardwood stand.																																									
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99	4130 - Aspen	Poletimber Well	42.4	32	51-80	N/A	2024 YOE Comments: Stand is just above 75% canopy closure. Mostly aspen. Removed an e-type from the center of the stand.																																									
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100	500 - Water	Nonstocked	22.3			No	<p>2024 YOE Comments: Beaver activity has expanded this stand, eliminating the marsh grass/cattail buffer. Water is expanding into surrounding stands.</p> <p>2008 YOE Comments: Stand is an emergent marsh with open water. Around the water there is a wide band of marsh grass and cattail then a band of lowland shrub. The water itself is full of lily pads.</p>																																						
101	6225 - Bog	Nonstocked	6.3			No	<p>2024 YOE Comments: Stand condition is the same. 2008 YOE Comments: This is a V-type that is mixed with shrub 2-4 feet. The amount of water decreases and the leather leaf increases from west to east.</p>																																						
102	6220 - Alder/willow	Nonstocked	7.4			No	<p>2024 YOE Comments: Stand condition is the same. 2008 YOE Comments: The stand is mainly tag alder and willow grading to an N-type from north to south.</p>																																						
103	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	8.2	92	51-80	N/A	<p>2024 YOE Comments: Canopy closure is below 75% due to ash and aspen mortality. A lot of downed woody debris. Canopy gaps are expected to fill in with hardwood. 2008 YOE Comment: The stand is a mix of large wet swales with scattered dry knolls. The stand ranges from E9 to E4/L. The habitat is PARVCo</p>																																						
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104	4199 - Other Mixed Upland Deciduous	Poletimber Medium	59.5	32	1-50	N/A	<p>2024 YOE Comments: Stand will not hit 75% canopy closure. Sparse throughout. Aspen diameter is above average for its age because of this. Upland ridge have minimal understory. Lowland areas have thick brush understory.</p> <p>2008 YOE Comment: The stand is a mix of quaking aspen, bigtooth aspen, red maple,. It has some ridges running through it. Overall, the stand is and A3 moving into A6. The stand does have large areas of L-Type and A2/L. There is evidence of heavy rutting in areas when it was harvested. the habitat on the ridge is PARVHA and the swales are PARVCo.</p>																																						
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105	6225 - Bog	Nonstocked	6.5			No	<p>2008 YOE Comment: The stand is mainly leather leaf and blueberry.</p>																																						
106	6220 - Alder/willow	Nonstocked	69.5			No	<p>2008 YOE Comment: This stand is in a depression and it is low and wet. The covertime is lowland brush of mainly tag alder and willow. There are some swamp hardwood trees in the stand but they are widely scattered with the majority being along the edges of the stand.</p>																																						
107	6220 - Alder/willow	Nonstocked	8.6			No	<p>2024 YOE Comments: New stand. Tag alder willow. Historically part of the adjacent beaver flooding. Hasn't been flooded in decades.</p> <p>2008 YOE Comment: This stand is a beaver flooding.</p>																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
108	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	7.8	44	81-110	N/A	2024 YOE Comments: New stand. Lowland stand separated from adjacent aspen stand. Pockets of aspen that are blowing over. 2008 YOE Comment: The stand is doing very well overall. There is varable it ranges from A1/L to V to A3. The stand is an A3 overall. Habitat PARVCo. 1977 Comments: Harvested under contract 41-77A and FTP W-82-32.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Quaking Aspen	35	Pole	7	44	Paper Birch	Low	5 - 10 feet	Sapling
								Black/Red (Hybrid) Oak	5	Pole/Sapling	6		Red Maple	Medium	5 - 10 feet	Sapling
								Red Maple	50	Pole/Log/Sap	7	44				
Paper Birch	10	Sapling/Pole	4													
109	6229 - Mixed lowland shrub	Nonstocked	31.6	24	Immature	No	2024 YOE Comments: Still non-forested. Mix of treed bog, lowland shrub, and tag alder willow. Birch, maple, swamp hardwood filling in slowly. 2008 YOE Comment: The stand was harvested and failed to regenerate. Along Estey road there is some Balsam popular and a few red maple stump sprouts but overall the stand has only grass and scattered trees. Also what did regenerate has been browsed heavily by deer. Habitat is a mix of PARVCo and PARVHa 1997: Harvest under contract 73-015-96-01, Estey Homestead. Cut 2" and up.									
110	3202 - Autumn Olive/Honeysuckle	Nonstocked	1.6			No	2024 YOE Comments: Autumn olive has not expanded much out of this stand. 2008 YOE Comments: This stand is a knoll that has been planted to Autumn Olive. The habitat is PARVHa and the soil is Rousseau 1997: Harvest under contract 73-015-96-01, Estey Homestead. Cut 2" and up.									
111	6229 - Mixed lowland shrub	Nonstocked	5.3			No	2006 YOE Comment: This stand is in a depression and it is low and wet. The covertime is lowland brush of mainly tag alder and willow. There are some swamp hardwood trees in the stand but they are widely scattered with the majority being along the edges of the stand.									
112	310 - Herbaceous Openland	Nonstocked	2.0			No	2024 YOE Comments: Phragmites pocket present. 2008 YOE Comment: This stand was a landing for the harvest of stand 13 and did not regenerate. The stand does have a pocket of Phragmites in the NE corner of the stand.									
113	622 - Lowland Shrub	Nonstocked	2.5			No	2008 YOE Comment: This stand is a depression and is very wet. The covertime is a L-Type being mainly willow, tag alder, and blueberry. There are some red maple and ash scattered in the stand and along the edges.									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
114	4130 - Aspen	Sapling Medium	10.4	25	Immature	N/A	2024 YOE Comments: Canopy closure is close to 50%. Stand will be pole class in 10 years. Minimal understory. Scattered oak saplings here and there. Central portion of the stand is lower ground with cradle/knoll topography. This area has not regenerated. 2008 YOE Comments: The stand was harvested in 1997 and has regenerated as an A2. Habitat PARVHa 1997: Harvest under contract 73-015-96-01, Estey Homestead. Cut 2" and up.																																																						
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115	710 - Sand, Soil	Nonstocked	2.1				2020 Oil and Gas Review Comment: The stand is a cleared area for the operation of an oil well. The well belongs to Summit Oil and the area is mainly bare sand. Producing well permit 4959																																																						
116	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	9.3	25	Immature	N/A	2024 YOE Comments: No evidence of planting. White pine and red pine appear to be from local seed source origin. Canopy closure is now above 25%. Birch, pine, oak stocking will continue to increase over time. 2008 YOE Comments: This stand did not regenerate well at all and is also heavily browsed by deer. The stand has been rutted fairly badly and may have contributed to the failure in regeneration. The soil in the stand is a little wet and should be planted to Jack Pine. Habitat PARVCo. 1997: Harvest under contract 73-015-96-01, Estey Homestead. Cut 2" and up.																																																						
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117	6225 - Bog	Nonstocked	1.3			No	2008 YOE Comment: The stand is mainly leather leaf and blueberry.																																																						
118	4199 - Other Mixed Upland Deciduous	Sapling Medium	18.9	24	Immature	N/A	2024 YOE Comments: Slowly filling in with birch. 2008 YOE Comments: The stand is not regenerating overwell. It is a mix of trembling aspen and red maple with lots of open pockets many of these pockets are heavily rutted. The regeneration in the stand is heavily browsed but is overall an E2A2. Habitat is PARVCo 1997: Harvest under contract 73-015-96-01, Estey Homestead. Cut 2" and up.																																																						
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119	6220 - Alder/willow	Nonstocked	7.6		Immature	No	2024 YOE Comments: New stand. Dead ash pocket. Converted to alder/willow/holly. 2014 YOE Comment: The stand is mainly lowlands. However there are areas of uplands. The birch in the stand is declining. There are traces of swamp white oak and cedar																																																						



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120	6229 - Mixed lowland shrub	Nonstocked	5.3		Immature	No	<p>2024 YOE Comments: New stand. Lowland non-forested stand. Holly with scattered birch saplings.</p> <p>2008 YOE Comment: The stand is very similar to stand 2 being a mix of upland knolls and lowland swales. The lowland makes up a greater percentage of the landscape. The stand does appear to be dryer then 2 so it was classified as an A-Type and not as a P-Type. In the stand some residual oak was left but it is widely scattered. The stand is definitely wet in the spring.</p> <p>1978 Comments: Harvested under contract 11-78A.</p>																																					
121	622 - Lowland Shrub	Nonstocked	2.3			No	<p>2008 YOE Comment: This stand is in a depression and it is low and wet. The covertype is lowland brush of mainly tag alder and willow. There are some swamp hardwood trees in the stand but they are widely scattered with the majority being along the edges of the stand.</p>																																					
122	622 - Lowland Shrub	Nonstocked	4.5			No	<p>2008 YOE Comment: This stand is a depression and is very wet. The covertype is a L-Type being mainly willow, tag alder, and blueberry. There are some red maple and ash scattered in the stand and along the edges.</p>																																					
123	4119 - Mixed Northern Hardwoods	Sawtimber Well	12.1	101	51-80	N/A	<p>2024 YOE Comments: Adjusted the stand boundary. Removed a wet area at the north end and an eastern finger ridge which is blocked by low ground. Aspen is falling out of the stand. Pole class red oak being released along with male and pine. Let the stand progress naturally.2014 Sale Comments: The stand was set up for harvest in Herner Hardwoods Selection sale 73-021-06-01 and was returned to the state.2008 YOE Comment: The stand has some very nice red oak. There is a large variety of plant making up the ground cover. The stand could be thinned, removing all the aspen and thinning out the rest retaining 60 BA. In the stand there some nice advanced single stem red oak regen that should be protected during harvest. The habitat is PARVVb.</p>																																					
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124	6113 - Lowland Maple	Sawtimber Well	18.5	101	81-110	N/A	<p>2024 YOE Comments: Updated stand boundary. Included a narrow ridge at the north end of the stand. Originally part of the stand to the south.</p> <p>2008 YOE Comment: The stand has a lot of standing water in it and much of the stand is in a depression. The stand has a thick E3 understory, if the stand is harvested there may be a problem with rutting.</p>																																					
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125	4130 - Aspen	Poletimber Well	70.7	33	51-80	N/A	2024 YOE Comments: Stand has transitioned to the pole class. Variable diameters depending on site quality and growing stock. Generally, lower site quality on the west side and higher site quality the east. Overall good quality aspen site. Candidate for early harvest if acres needed. 2008 YOE Comment: The terrain in the stand is a mix of ridges and swales. The ridges are mainly bigtooth aspen mixed with some trembling aspen and red maple. The swales area mainly trembling aspen and red maple mixed with some bigtooth aspen. The stand does have an extensive road system in it which is wide enough to be used by truck but look to mainly be used by ORVs from the private to the west. The habitat is a mix of PARVHa and PARVCo. 1989 Comments: Clear-cut under contract 73-022-86-01.																																													
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126	6113 - Lowland Maple	Sawtimber Well	25.3	71	81-110	N/A	2024 YOE Comments: Decent amount of aspen still standing. Ash has fallen out of the stand but was not a large percentage of the prior canopy structure. Let this stand progress naturally. Not worth the effort to access at this time. Possibly manage when stand to the north is harvested. 2014 Sale Comments: The stand was set up for harvest in Herner Hardwoods Selection sale 73-021-06-01 and was returned to the state. 2008 YOE Comment: This stand is fairly high and for the most part dry. The stand needs to be thinned so remove the aspen and paper birch then marking the remaining trees to retain 70 BA.																																													
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127	310 - Herbaceous Openland	Nonstocked	13.9	22	Immature	4139 - Aspen, Mixed Deciduous	2024 YOE Comments: No evidence of planting. Stand is still non-forested with little progress made towards reforestation. Difficult access makes reforestation efforts impractical. 2006 YOE Comment: The stand was harvested in 1999 and has not regenerated. In the stand what has regenerated has been browsed by deer. Currently the stand is an G-Type that is a mix of reed grass, grass, raspberry, tag alder and willow. The soil has a fair amount of rutting that may have contributed to the fail in regeneration. Stand should be replanted to Jack pine. Habitat PARVCo. 1999: Stand harvested under contract 73-035-98-01, D.J. Revisited. Cut 2" and up.																																													
128	500 - Water	Nonstocked	12.8			No	2024 YOE Comments: Water portion of surrounding stand. 2006 YOE Comment: The stand was a Z-Type 10 years ago because of beaver activity and has since drained down and is mainly a L-Type. There are still areas of water in the stand.																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
129	4131 - Aspen, Oak	Poletimber Well	8.0	24	Immature	N/A	2024 YOE Comments: Stand has transitioned to the pole class. Residual oak increase average diameter. Borderline mixed deciduous cover-type. 2008 YOE Comment: The stand is a mix of trembling and bigtooth aspens with red maple and paper birch. Overall the stand is mainly an A3. The terrain is a mix of ridges and swales and the overall habitat type is mainly PARVCo. 1997: The stand was harvested in 1997 as a clearcut retaining oak greater than 6" and marked other species. The sale was North Mills, sale #73-008-94-01																																																																								
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130	6220 - Alder/willow	Nonstocked	6.8			No	2024 YOE Comments: Alder/willow/holly. Hardwood component has been reduced because of EAB.2006 YOE Comment: This stand is in a depression and it is low and wet. The coverytype is lowland brush of mainly tag alder and willow. There are some swamp hardwood trees in the stand but they are widely scattered with the majority being along the edges of the stand.																																																																								
131	4139 - Aspen, Mixed Deciduous	Poletimber Well	31.1	44	51-80	N/A	2024 YOE Comments: Updated boundary. Removed lowland hardwood types and upland mix type. Variable diameter aspen dependent on micro site characteristics. Range from sapling to log. Lots of wet pockets throughout this stand. 2008 YOE Comments: The stand is regenerating well and it is an A6. The stand has 1 main ridge which a 2-track that is high and dry. The rest of the stand has a lot of up and down. The low area are variable ranging from A4/L to A6. The main aspen species is quaking aspen. The upland ranges from A4/G to A6 it is mainly bigtooth aspen. The area is also mixed with red maple and balsam poplar. 1978 Comments: Harvested under contract 11-78A.																																																																								
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132	4139 - Aspen, Mixed Deciduous	Poletimber Well	27.0	46	51-80	N/A	2024 YOE Comments: Aspen/mixed deciduous stand. Pockets of dense aspen poles and pockets of dense hardwood saplings. Sapling pockets occur in lower areas of sparse aspen.. Scattered pine. 2014 YOE Comments: Early harvest candidate? Some wp in NE part of stand. Hydrology 5 of 10 (10 driest). Dry upland but lower. Low levels of Brack frn and sens fern. 1977 Comments: Harvested under contract 41-77A.																																																																								
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133	6121 - Tamarack	Poletimber Medium	7.2	22	Immature	N/A	2024 YOE Comments: Tamarack/white pine over lowland shrubs.2014 YOE Comments: OI Stand Year Origin was 1999		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Paper Birch	10	Sapling	4	23	Smooth Highbush Blueberry	High	5 - 10 feet	Tall Shrub
	Red Maple	10	Sapling/Pole	4	23	Tamarack	Medium	10 - 20 feet	Sapling
	White Pine	30	Pole/Sap/Log	6		White Pine	Low	5 - 10 feet	Sapling
	Tamarack	50	Pole/Sapling	5	23	Michigan Holly	High	5 - 10 feet	Tall Shrub
134	4131 - Aspen, Oak	Poletimber Well	11.8	45	51-80	N/A	2024 YOE Comments: Stand switched to aspen. Marsh boundary maple dominated. Oak mostly at the ridge top adjacent to forest road. Heavy blow down along east and south edges. 2014 YOE Comments: Is A stand near road only. Varies from A to E. Treat pd of 2 b/c may be able to clearcut (apparently did 30 years ago). Grnd cov bracken and sensitive fern! 1977 Comments: Harvested under contract 41-77A.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Quaking Aspen	25	Pole	8	45	Michigan Holly	Medium	5 - 10 feet	Tall Shrub
	Black/Red (Hybrid) Oak	20	Pole/Log	9		Red Maple	Medium	10 - 20 feet	Sapling
	Red Maple	25	Pole/Sapling	5					
	Paper Birch	5	Sapling/Pole	4					
	Bigtooth Aspen	25	Pole	8	45				
135	6230 - Cattail	Nonstocked	51.3			No	2024 YOE Comments: Beaver activity still present.2014 YOE Comments: Few ac of tag ald NE corner, few ac vac/leather NW part of stand.		
136	6113 - Lowland Maple	Sawtimber Medium	13.9	109	51-80	N/A	2024 YOE Comments: Natural forest succession. Aspen is declining, hardwood saplings filling in gaps. Hardwood regeneration has also established along marsh edge, replacing the former ash component. Stand is now two aged. Second age has wide margins.2014 YOE Comments: DIFFICULT ACCESS. A9 plot is on wide ridge at S end of stand, and is not completely representative of ridge. May want to look at when st 11 is cut again, but need long road against private for few acres of timber.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Quaking Aspen	6	Log/Pole	12		Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
	Bigtooth Aspen	10	Log/XLog	17	110	Musclewood/Hornbeam	Low	10 - 20 feet	Sapling
	Red Maple	65	Log/Pole/Sap	10	110	Red Oak	Low	10 - 20 feet	Sapling
	Tamarack	2	Pole	8		Witch Hazel	Low	5 - 10 feet	Tall Shrub
	Paper Birch	15	Pole/Log	8	46	Red Maple	Medium	Variable	Sapling
	Slippery Elm	2	Pole	8	46				
137	6223 - Inundated Shrub Swamp	Nonstocked	8.5	2021		No	2024 YOE Comments: Ash canopy is gone. Stand has converted to lowland shrub.2014 YOE Comments: Broken out of St 14. L/E2 understory. Canopy 65% ash, 35% rm. SI estimated from St 14. Gc sedge, grass, forbs, sens fern, seedlings, iris.		
138	6222 - Shrub-Carr	Nonstocked	9.3			No	2024 YOE Comments: Alder/willow border. Cattail/floating aquatic center. Still an active beaver flooding.2014 YOE Comments: Large portion of stand at SE end is beaver flooding with dead trees and scattered floating aquatic vegetation.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
139	6113 - Lowland Maple	Sawtimber Medium	10.0	60	1-50	N/A	2024 YOE Comments: Aspen removed 7 years ago. Minimal regeneration at this time. Stand is moderately stocked with maple and oak log to pole sized trees. These should propagate future regeneration. Oak declining. Result of harvest stress. Appears wide spread. Stand varies from dry ridge to low swale. 2014 YOE Comments: Site is low; was typed as E last YOE. Remove aspen during dry/frozen conditions. Portions of S end of stand may be inoperable (too wet). Leave all red oak and some aspen for retention (for pumps and seed source). Expect maple regen, good to fair aspen regen, and some red oak regen; maple component will increase somewhat. Any combination of aspen/maple is acceptable.																																																													
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140	6230 - Cattail	Nonstocked	14.0			No	2014 YOE Comments: Pure cattails.																																																													
141	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	18.4	33	51-80	N/A	2024 YOE Comments: Stand switched to lowland deciduous. Aspen concentrated on south central dry knob. 2014 YOE Comments: Highly variable topo and species mix. 65% upland. Red and blk O, B, and r maple well represented. Traces of W, R and T. Dense highbush vac understory. Several illegal blinds along edge of marsh to E. 1990 Comments: Clear-cut under contract 73-014-89-01.																																																													
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142	6113 - Lowland Maple	Poletimber Medium	9.2	46	1-50	N/A	2024 YOE Comments: Split stand. This stand is the inoperable portion of the former stand. Sparse log sized trees over a moderate stocking of poles and saplings. Dense understory of lowland brush and herbaceous vegetation. 2014 YOE Comments: Large portion not operable- too wet. Also BA too low to do selection harvest. Hydrology 4 of 10 (10 driest). Consider 4" spec CC in 10 or 20 yrs: Let understory fill in 1st.																																																													
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143	3301 - Low Density Deciduous Trees	Nonstocked	4.6			No	2024 YOE Comments: Sparse regeneration area that was part of the adjacent cut. ORV disturbance and multiple trails. Road was historically bermed. Old foundation located towards the road. 2014 YOE Comments: Grass (20%) w/ brack frn (60%) and raspb (20%). Knapweed along road.																																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
144	310 - Herbaceous Openland	Nonstocked	1.1		Immature	No	2024 YOE Comments: Recent disturbance. Soil and woody debris have been dumped and pushed around with a bulldozer to form a vehicle barrier around the edges of the stand. Unsure if this is DNR, county, or illegal use related. 2014 YOE Comments: Grass. ORV/truck mixing area at E end of stand. Road through area recently bermed. Citizen said Billings Twpsh BOARD was planning snowmobiling area in this portion of comp.			
145	122 - Road/Parking Lot	Nonstocked	3.3	0	Unspecified	No				
146	4199 - Other Mixed Upland Deciduous	Poletimber Medium	7.7	33	1-50	N/A	2024 YOE Comments: Stand was clear-cut with stands to the west. Beaver have removed all aspen from this stand. Maple/oak currently. Future harvest of this stand will require crossing 150 feet of low ground with crane or composite mats. 2014 YOE Comments: Isolated by beaver flooding to west. 1990 Comments: Clear-cut under contract 73-014-89-01.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	46	Pole/Sapling	5	33	White Oak	Low	5 - 10 feet	Sapling
		White Oak	5	Sapling/Pole	4		Witch Hazel	Low	5 - 10 feet	Tall Shrub
		White Pine	2	Pole/Sap/Log	7					
		Red Oak	45	Pole/Sap/Log	7	33				
		Paper Birch	2	Sapling	3					
147	4199 - Other Mixed Upland Deciduous	Poletimber Medium	16.4	47	51-80	N/A	2024 YOE Comments: Stand was harvested 7 years ago. Some regeneration of aspen and oak, mostly along forest road. Good crop of sapling/pole maple and oak released after harvest. Currently still even aged but moving toward to aged condition. 2014 YOE Comments: Aspen removal, and mark other spp. To BA of 80. In mature R and W pine at S and E end of stand, mark pines for removal, retaining 30 BA. Stand mostly upland but has wet area S of road. Very diverse stand: white oak and tamarack present as well. Dense high bush vac grnd cov. When marking, reserve all representative spp by BA for retention. Expect and desire diverse stand of aspen, pine, oak and tamarack; harvest should keep stand as A type but any combo of spp is acceptable.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Tamarack	2	Pole/Log	8		Red Maple	Medium	10 - 20 feet	Sapling
		White Oak	6	Pole/Log	8		Serviceberry (Juneberry)	Medium	5 - 10 feet	Sapling
		Quaking Aspen	5	Pole/Log	9	48	Michigan Holly	Low	5 - 10 feet	Tall Shrub
		Paper Birch	2	Pole	7	48	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
		Red Maple	45	Pole/Log/Sap	8	48	Bigtooth Aspen	Low	10 - 20 feet	Sapling
		White Pine	10	Pole/Log	8					
		Black/Red (Hybrid) Oak	25	Pole/Log	8	48				
		Red Pine	5	Log	14					
148	4139 - Aspen, Mixed Deciduous	Poletimber Well	15.8	33	51-80	N/A	2024 YOE Comments: Mixed upland lowland stand. Skid trails across low ground did not regenerate. Ruts and water holes still visible. Hydrology depends on beaver flooding to the east. No active beaver dams in the stand. 2014 YOE Comments: Lg beaver dam across SE end of stand. Dam created stand 70. Trace of T, B, M, W and w oak. Alder and hazel shrub layer. Grnd cov vac, plus royal fern in drainages. 1990 Comments: Clear-cut under contract 73-014-89-01.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Paper Birch	10	Sapling/Pole	4	33	Red Maple	Medium	10 - 20 feet	Sapling
		Quaking Aspen	25	Pole/Sapling	5	33	Paper Birch	Low	5 - 10 feet	Sapling
		Bigtooth Aspen	15	Pole/Sapling	5	33	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
		White Pine	5	Pole/Sapling	6		Michigan Holly	Low	5 - 10 feet	Tall Shrub
		Red Maple	30	Sapling/Pole	4	33				
		Black/Red (Hybrid) Oak	15	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
153	6229 - Mixed lowland shrub	Nonstocked	14.9		Immature	413 - Aspen	<p>2024 YOE Comments: Stand split out from larger stand. Portion of former stand which did not regenerate. Scattered oak and birch over alder/holly/other shrubs. Switched stand to non-forested. No evidence of planting. Access is difficult.</p> <p>2008 YOE Comments: The stand has regenerated as a patchy A2 with lots of open areas. The patches are A3 and the opening are G-types. May want to plant the opening to jack pine when stand 158 is being interplanted.</p> <p>1999: Stand harvested under contract 73-035-98-01, D.J. Revisited. Cut 2" and up.</p>																																										
154	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	19.7	23	Immature	N/A	<p>2024 YOE Comments: Stand boundary adjusted. This portion is marginal uplands. 60 - 40 split. Scattered aspen throughout. Mostly maple saplings.</p> <p>2008 YOE Comments: The stand is high and dry. The stand will be a pole stand in 10 years.</p> <p>1998: 1998: Stand harvested under contract 73-005-98-01, Deer Scout. Stand cut 2" and up except for oak.</p>																																										
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155	4130 - Aspen	Sapling Well	17.9	23	Immature	N/A	<p>2024 YOE Comments: Canopy closure has increased to above 75%. Average diameter is just below the pole class. Lowland pockets along the southern edge.</p> <p>2008 YOE Comments: The stand has regenerated well to an A3 which is a mix of bigtooth and trembling aspen with some oak and red maple.</p> <p>1998: 1998: Stand harvested under contract 73-005-98-01, Deer Scout. Stand cut 2" and up except for oak.</p>																																										
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156	122 - Road/Parking Lot	Nonstocked	6.9	2021	Unspecified	No	2024 YOE Comments: New stand. Pinconning Rd.																																										
157	6220 - Alder/willow	Nonstocked	24.0		Immature	No	<p>2024 YOE Comments: Ash mortality greatly reduced stem count resulting in longer durations of standing water. Remaining red maple are declining. 2008 YOE Comments: Stand is an E2/L with the tree species being red maple, ash with some trembling aspen. The ground cover in the stand is tag alder over 4' and other herb.</p>																																										
158	310 - Herbaceous Openland	Nonstocked	11.4		Immature	4199 - Other Mixed Upland Deciduous	<p>2024 YOE Comments: No evidence this stand was planted. Canopy closure is below 25%. Switched to non-forested. Difficult access. Leave in open condition. 2008 YOE Comments: This is part of stand 153 that is in a depression and did not regenerate. Plant the stand to jack pine because it is a moist site to bring the stand up to full stocking. 1999: Stand harvested under contract 73-035-98-01, D.J. Revisited. Cut 2" and up.</p>																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
159	4130 - Aspen	Poletimber Well	44.5	32	81-110	N/A	2024 YOE Comments: Good stocking. wet areas are operable for the most part. Oil/gas infrastructure within the stand.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Bigtooth Aspen	15	Pole	7	32	Red Maple	Low	>20 feet	Sapling
	Quaking Aspen	55	Pole	6	32	Swamp White Oak	Low	>20 feet	Sapling
	Paper Birch	15	Pole/Sapling	5	32	Witch Hazel	Low	5 - 10 feet	Tall Shrub
	Black/Red (Hybrid) Oak	5	Pole	6	32	Black/Red (Hybrid) Oak	Low	>20 feet	Sapling
	Red Maple	10	Sapling/Pole	4	32				
	2008 YOE Comments: The stand is heavy to trembling asp with pockets of E-Type and L-Type. The land is undulating but the majority is upland.								
	1989: Harvested under contract 73-045-88-01, Deer Road Gas Wells. Cut 2" and up.								
160	4130 - Aspen	Poletimber Well	19.0	33	51-80	N/A	2024 YOE Comments: Stand split. This is the upland, moderately stocked portion of the former stand. A few lowland pockets still remain within the stand.		
	Canopy Species	% Cover	Size Class	DBH	Age				
	Red Maple	10	Sapling/Pole	4	33				
	Paper Birch	10	Pole/Sapling	5	33				
	Bigtooth Aspen	60	Pole/Sapling	6	33				
	Black/Red (Hybrid) Oak	10	Pole/Sap/Log	7					
	Quaking Aspen	10	Pole/Sapling	6	33				
	2008 YOE Comments: The stand was harvested and the regeneration has come back somewhat patchy but has an overall stocking of 3. The species mix is red maple and aspen. The ground is also a mix of upland and lowland. The lowland appears to hold water in the spring. The ground cover goes from Bracken fern to leather leaf and michigan holly.								
	1989: Harvested under contract 73-045-88-01, Deer Road Gas Wells. Cut 2" and up.								
161	6229 - Mixed lowland shrub	Nonstocked	3.6	0		No	2024 YOE Comments: New stand. Split out from adjacent E-type. Old ash pocket that has converted to lowland brush.		
	2008 YOE Comments: The stand is a mix of dry knolls and wet swales. Let the stand continue to move toward swamp hardwoods.								
162	4119 - Mixed Northern Hardwoods	Poletimber Medium	19.8	93	51-80	N/A	2024 YOE Comments: Aspen regeneration did fail. Maple and oak saplings released. Switched stand to majority upland. Western edge includes a sub 5 acre clear-cut that is approximately 18 years old.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	65	Pole/Log/Sap	8	93	Black/Red (Hybrid) Oak	Low	>20 feet	Sapling
	Black/Red (Hybrid) Oak	35	Pole/Log/Sap	8	93	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
						Red Maple	Medium	>20 feet	Sapling
	2012: Stand harvested under contract 73-019-08-01, South Bentley. Cut all aspen that are 2" and up. The rest of the stand was marked to cut. Residual BA was 57. Advanced regeneration was present and protected.								
	2008 YOE Comments: The stand is made up of two ridges on either side of a low wet swale. The aspen in the stand is way overmature and if harvested it is questionable if it would regenerate. Harvest the stand by removing all the aspen leaving all other species and in areas of high density after the aspen is removed thin down to 80 BA.								
163	6113 - Lowland Maple	Sawtimber Medium	26.1	96	51-80	N/A	2024 YOE Comments: Cover-type switched from regeneration to residual. Residual canopy covers over 50% of the stand area. Aspen regeneration is sparse. Advanced residual stems successfully released.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Swamp White Oak	25	Log/Pole	10	96	Swamp White Oak	Low	>20 feet	Sapling
	Red Maple	60	Pole/Log/Sap	9	96	Red Maple	Medium	>20 feet	Sapling
	Cottonwood	5	Log/XLog	17		Quaking Aspen	Low	10 - 20 feet	Sapling
	Paper Birch	10	Pole/Log	8	50	Michigan Holly	High	5 - 10 feet	Tall Shrub
	2012: Stand harvested under contract 73-019-08-01, South Bentley. Aspen was removed 2" and up. Other trees were marked to cut. Residual BA was 53. Advanced regeneration was present and protected.								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
164	6229 - Mixed lowland shrub	Nonstocked	5.5	0		No	2024 YOE Comments: New stand. Lowland shrub pocket. Did not regenerate after harvest. 2008 YOE Comments: The stand is made up of dry ridges mixed with wet depressions. The ridges are fairly sparse being mainly trembling aspen, maple and cherry. The depression are E3 of ash, maple, paper birch. The low ground has ponded water in the spring. The trail in the stand is growing in with grass. Soil goes from Wainola-Deford to Rousseau to Rubicon to Croswell from west to east. 1998: Harvested under contract 73-045-88-01, Deer Road Gas Wells. Cut 2" and up.																																										
165	6113 - Lowland Maple	Poletimber Well	8.9	93	81-110	N/A	2024 YOE Comments: Ash and aspen mortality in its final stages. Allow the process to continue. Salvaging and thinning will damage advanced residual maple open hardwood canopies before they are ready to be thinned. 2008 YOE Comments: The ground is in a depression and it is wet and has standing water in the spring. The aspen is in poor shape. Hold the stand for 10 years then reevaluated for possible harvest.																																										
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166	6113 - Lowland Maple	Poletimber Well	3.9	93	51-80	N/A	2024 YOE Comments: Canopy closure is now above 75%. Ash and aspen mortality complete. Lots of downed woody material. 2008 YOE Comments: Overstory is dying out in areas with very good regeneration coming up. The stand is heavy to swamp white oak. Let the overstory die and manage for the understorey.																																										
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167	6112 - Lowland Aspen	Sawtimber Well	7.1	59	51-80	N/A	2024 YOE Comments: Aspen continue to periodically blow over. Canopy gaps filling with hardwood. Stand is a narrow low ridge with low ground on the north and south sides. 2008 YOE Comments: The stand is low and wet overall with opening scattered through out the stand. The overstory trees are dying out in places.																																										
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168	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	20.7	95	81-110	N/A	2024 YOE Comments: Single stem hardwood in the dominant, co-dominant, and advanced regeneration positions would benefit from a release. Aspen is over mature. Two small aspen stands merged into this stand. 2008 YOE Comments: The stand is a mix of dry knolls and wet swales. Let the stand continue to move toward swamp hardwoods.																																										
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169	6112 - Lowland Aspen	Poletimber Well	13.6	44	51-80	N/A	2024 YOE Comments: Same age as stand 196 but lowland. Moderately dense aspen. Canopy closure just above 75%. Pockets of aspen are small for their age. Scattered oak were left last time the stand was harvested. Quaking aspen/maple in lowland pockets. Bigtooth/oak on uplands. 2008 YOE Comment: the stand is a mix of uplands and lowlands. Overall the stand is coming along well and should be an A6 in 10 years. Habitat PARVCo amd PARVHa. 1977 Comments: Harvested under contract 13-77.																																																						
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170	310 - Herbaceous Openland	Nonstocked	1.1				2020 Oil and Gas Review Comment: OIL/GAS WELL SITE producing well permit 16929																																																						
171	310 - Herbaceous Openland	Nonstocked	1.2	2021			2020 Oil and Gas Review Comment: OIL/GAS WELL SITE. It is fairly open with an area of phraimigties along the east side of the stand. Producing well permit 37125																																																						
172	6112 - Lowland Aspen	Poletimber Well	25.5	34	81-110	N/A	2024 YOE Comments: Switched stand to lowland. Not a lot of standing water though. Small diameter aspen for it age mostly due to dense stocking. 2008 YOE Comments: The site has a fair amount of trembling aspen, ash and red maple and it is semi-wet. The trembling aspen is getting close to pole stand and it should be a med to well stocked pole stand is in 10 years. The soil under the stand are variable going form Rubicon on the north edge to Sims to Kawkawlin. The crown closure is also variable with area of G and L as well as areas of A3. Overall the stand is fully stocked. 1988: Harvested under contract 73-045-88-01, Deer Road Gas Wells. Cut 2" and up.																																																						
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173	6112 - Lowland Aspen	Poletimber Medium	65.2	33	1-50	N/A	2024 YOE Comments: Switched stand from upland to lowland. Majority of the trees in the stand are growing in a lowland condition. High water table throughout the stand. 2008 YOE Comments: The stand is made up of dry ridges mixed with wet depressions. The ridges are fairly sparse being mainly trembling aspen, maple and cherry. The depression are E3 of ash, maple, paper birch. The low ground has ponded water in the spring. The trail in the stand is growing in with grass. Soil goes from Wainola-Deford to Rousseau to Rubicon to Croswell from west to east. 1988: Harvested under contract 73-045-88-01, Deer Road Gas Wells. Cut 2" and up.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
174	4130 - Aspen	Sapling Medium	14.5	24	Immature	N/A	2024 YOE Comments: Stocking has increased since last inventory. Now over 50% canopy closure. 2008 YOE Comments: The stand was harvested and has come back as an A2E2. The main species are trembling aspen, red maple, red oak and white oak. The regeneration in the stand is patchy in the patches the stocking is a level 3 but there is also large area of open land. Therefore the overall stocking is 2. The soils are a mix of Rubicon SE and Rousseau NW, but Rubicon makes up the majority of the soils. 1998: Stand harvested under contract 73-018-98-01, Estey Strips. All trees harvested 2" and up.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	15	Sapling	3	23	Red Maple	Low		10 - 20 feet	Sapling
Paper Birch	15	Sapling	3	23	Michigan Holly	High		5 - 10 feet	Tall Shrub
Bigtooth Aspen	40	Sapling/Pole	4	23	Black/Red (Hybrid) Oak	Low		10 - 20 feet	Sapling
Quaking Aspen	30	Sapling/Pole	4	23	Paper Birch	Low		10 - 20 feet	Sapling
175	6112 - Lowland Aspen	Poletimber Well	31.2	43	81-110	N/A	2024 YOE Comments: Switched stand to lowland. Most of the stand holds water through the spring. Some areas appear to be wet year round. Aspen drops out of the north end. 2008 YOE Comment: The stand is very similar to stand 2 being a mix of upland knolls and lowland swales. The lowland makes up a greater percentage of the landscape. The stand does appear to be dryer then 2 so it was classified as an A-Type and not as a P-Type. In the stand some residual oak was left but it is widely scattered. The stand is definitely wet in the spring. 1978 Comments: Harvested under contract 11-78A.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	5	Pole/Sapling	5						
Quaking Aspen	65	Pole	8	43					
Black/Red (Hybrid) Oak	5	Pole/Log	9						
Red Maple	15	Pole/Sapling	6	43					
Swamp White Oak	10	Log/Pole	10						
176	4130 - Aspen	Poletimber Well	6.0	43	1-50	N/A	2024 YOE Comments: Stand has grown into the pole class. Canopy closure had also increased. 2008 YOE Comment: The stand is somewhat variable with most of it being upland though there are inclusion of lowland. There are some pole now showing up and should be an A6 in 10 years. 1978 Comments: Harvested under contract 11-78A.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	65	Pole	7	43	Red Maple	Medium		>20 feet	Sapling
Red Maple	10	Pole/Sapling	5	43	Witch Hazel	Medium		5 - 10 feet	Tall Shrub
Paper Birch	15	Pole/Sapling	5	43					
Black/Red (Hybrid) Oak	10	Pole/Sapling	7						
177	6112 - Lowland Aspen	Poletimber Well	26.1	42	51-80	N/A	2024 YOE Comments: Overall lowland. Some pure upland however majority upland is borderline lowland. Quaking aspen is dominant on the site. Inclusion of E9 along southern border. 2008 YOE Comment: The stand is mainly an A4A3 ridge with ground cover of bracken fern with inclusions of lowland. Species present in the stand are trembling aspen, red maple, swamp white oak. 1978 Comments: Harvested under contract 11-78A.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	45	Pole	7	42	Red Maple	Medium		>20 feet	Sapling
Red Maple	25	Pole/Sapling	5	42	Michigan Holly	Low		5 - 10 feet	Tall Shrub
Swamp White Oak	5	Log	12		Musclewood/Hornbeam	Low		10 - 20 feet	Sapling
Bigtooth Aspen	15	Pole	7	42					
Paper Birch	10	Pole/Sapling	5	42					
178	6113 - Lowland Maple	Sapling Medium	7.3	32	1-50	N/A	2024 YOE Comments: New stand. Lowland hardwood stand separated out from surrounding aspen stand. Low quality, low vigor stand. Ground cover in portions of the stand are leatherleaf dominated. 2008 YOE Comments: The stand is high and dry. The stand will be a pole stand in 10 years. 1990 Comments: Clear-cut under contract 73-011-87-01.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	10	Pole/Sapling	5	32	Michigan Holly	High		5 - 10 feet	Tall Shrub
Red Maple	65	Pole/Sapling	5	32					
Swamp White Oak	10	Sapling/Pole	4	32					
Quaking Aspen	15	Pole/Sapling	6	32					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
179	6112 - Lowland Aspen	Poletimber Well	18.6	32	81-110	N/A	<p>2024 YOE Comments: New stand. This stand is primarily quaking aspen. Areas of the stand are wet. Small pockets throughout the stand have blown over.</p> <p>2008 YOE Comment: The stand is a mix of quaking aspen, bigtooth aspen, red maple,. It has some ridges running through it. Overall, the stand is and A3 moving into A6. The stand does have large areas of L-Type and A2/L. There is evidence of heavy rutting in areas when it was harvested. the habitat on the ridge is PARVHA and the swales are PARVCo.</p>																																						
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Red Maple	Medium	>20 feet	Sapling																																										
180	4131 - Aspen, Oak	Sawtimber Medium	12.6	84	81-110	N/A	<p>2024 YOE Comments: Mature aspen with oak and maple. Regeneration failure is a concern if harvested due to aspen age and high deer numbers.OPIC - FMD: This stand is a ridge behind stand 190. The access will be difficult but the stand needs to be harvested. Most of the stand is on a ridge but there are some steep draws that need to be watched. the main soil type is Rousseau series. Habitat PARVHa.</p>																																						
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181	622 - Lowland Shrub	Nonstocked	15.7			No	<p>2008 YOE Comment: This stand is in a depression and it is low and wet. The covertime is lowland brush of mainly tag alder and willow. There are some swamp hardwood trees in the stand but they are widely scattered with the majority being along the edges of the stand.</p>																																						
182	622 - Lowland Shrub	Nonstocked	15.0			No	<p>2024 YOE Comments: Former ash stand.</p> <p>2008 YOE Comment: This stand is in a depression and it is low and wet. The covertime is lowland brush of mainly tag alder and willow. There are some swamp hardwood trees in the stand but they are widely scattered with the majority being along the edges of the stand.</p>																																						
183	622 - Lowland Shrub	Nonstocked	12.6		Unspecified	No	<p>2008 YOE Comment: This stand is in a depression and it is low and wet. The covertime is lowland brush of mainly tag alder and willow. There are some swamp hardwood trees in the stand but they are widely scattered with the majority being along the edges of the stand.</p> <p>1978 Comments: Harvested under contract 11-78A.</p>																																						
184	622 - Lowland Shrub	Nonstocked	7.5		Unspecified	No	<p>2008 YOE Comment: This stand is in a depression and it is low and wet. The covertime is lowland brush of mainly tag alder and willow. There are some swamp hardwood trees in the stand but they are widely scattered with the majority being along the edges of the stand.</p> <p>1978 Comments: Harvested under contract 11-78A.</p>																																						
185	6225 - Bog	Nonstocked	5.4			No	<p>2006 YOE Comment: This stand is in a depression and it is low and wet. The covertime is lowland brush of mainly tag alder and willow. There are some swamp hardwood trees in the stand but they are widely scattered with the majority being along the edges of the stand.</p>																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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186	622 - Lowland Shrub	Nonstocked	4.9		Unspecified	No	2008 YOE Comment: This stand is in a depression and it is low and wet. The covertype is lowland brush of mainly tag alder and willow. There are some swamp hardwood trees in the stand but they are widely scattered with the majority being along the edges of the stand. 1978 Comments: Harvested under contract 11-78A.
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187	6112 - Lowland Aspen	Sapling Well	10.3	24	Immature	N/A	2024 YOE Comments: New stand. Lowland area removed from stand to the south. Upland along roads, lowland in the center. Canopy closure is also over 75%. 2008 YOE Comments: The stand is and A3 that has an even mix of quaking and bigtooth aspen with some red maple. It has some pockets of L-Type and G-Type. Also in the south east corner there is a batch of red pine which is less than 1 acre in size. Regeneration is showing a fair amount of browse.. Habitat PARVCo and PARVHa. 1997: Harvest under contract 73-015-96-01, Estey Homestead. Cut 2" and up except for pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	55	Sapling/Pole	4	24	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	15	Sapling	3	24	Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Paper Birch	20	Sapling	3	24				
Black/Red (Hybrid) Oak	5	Pole	6					
Quaking Aspen	5	Pole/Sapling	5	24				

188	6113 - Lowland Maple	Poletimber Medium	50.2	50	51-80	N/A	2024 YOE Comments: Switched stand to uneven-aged. Oldest year of origin is 1926. This cohort is made up of multi-stemmed maple, log class aspen and oak scattered throughout the stand. The majority of the stand is younger, approximately 50 yrs old. This cohort is dominated by pole class maple and oak. The understory is filling in with maple, oak, ash as aspen and maple in the oldest age class die.2008 YOE Comment: The stand is hummocky. It ranges from well stocked to poorly stocked. The stand has a lot of standing water in it.. There are some dry knolls in the stand but they are scattered. The habitat is PARVCo
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole/Sap/Log	7		Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	10	Pole/Sap/Log	7	50	Red Maple	High	Variable	Sapling
Bigtooth Aspen	20	Log	14	96	Michigan Holly	High	5 - 10 feet	Tall Shrub
Red Maple	60	Pole/Sap/Log	8	50	Green Ash	Medium	Variable	Sapling

189	6113 - Lowland Maple	Poletimber Medium	45.9	50	1-50	N/A	2024 YOE Comments: Switched stand to uneven-aged. EAB, wind events, and early successional species decline has resulted in more than 3 age classes. All age classes are dominated by red maple. All areas of the stand have poor stocking. Lowland brush dominates the understory.2006 YOE Comment: The stand is a mix of low knolls with low wet depressions. The stand ranges from E4/L to E6. The habitat Type is PARVCo.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Log	12	96	Red Maple	Medium	>20 feet	Sapling
Quaking Aspen	15	Log	12	96	Swamp White Oak	Low	10 - 20 feet	Sapling
Paper Birch	5	Pole/Sapling	6		Michigan Holly	Full	5 - 10 feet	Tall Shrub
Red Maple	70	Pole/Log/Sap	8	50				
Black/Red (Hybrid) Oak	5	Pole/Sap/Log	6					

190	6113 - Lowland Maple	Sawtimber Well	31.0	84	51-80	N/A	2024 YOE Comments: Updated stand age from 47 to 84. Pole sized trees may be 47 but most of the canopy is older. 2008 YOE Comment: The stand is low and wet. Much of the stand has standing water in it. The habitat is PARVCo
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	80	Log/Pole/Sap	10	84	Red Maple	High	>20 feet	Sapling
Bigtooth Aspen	5	Log	12	84				
Black/Red (Hybrid) Oak	10	Log/Pole	10					
Swamp White Oak	5	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
191	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	42.3	47	51-80	N/A	2024 YOE Comments: Eastern edge of the stand has higher site quality. Majority of the stand is low quality. 2008 YOE Comment: The stand is hummocky with some slight ridges that are heavy to aspen, but most of the compartment is lower and wetter. The habitat is PARVCo. 1974 Comments: Habitat cut under FTP W8-486/309																																																						
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192	6113 - Lowland Maple	Poletimber Well	2.4	50	51-80	N/A	2024 YOE Comments: New stand. Maple pole stand. Older than adjacent aspen stands. 2008 YOE Comment: The stand was typed up as a L-Type 10 years ago. The stand is now an E2 overall the center is still more of an L-type. The cover type is made up of maple and ash mainly. The understory is tag alder. The avg. DBH is 2". The stand is very wet. The habitat is PARVCo																																																						
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193	6113 - Lowland Maple	Poletimber Medium	3.3	90	51-80	N/A	2024 YOE Comments: Canopy closure still below 75% due to ash mortality. 2008 YOE Comment: The stand is low and wet and it has an understory that is thick with tag alder. The habitat is PARVCo																																																						
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194	4137 - Aspen, Birch	Poletimber Well	24.5	44	51-80	N/A	2024 YOE Comments: Variable stand. North end is more dense and has more aspen. South end is less dense with less aspen. Trace of white pine. 2008 YOE Comment: The stand is doing very well overall. There is varable it ranges from A1/L to V to A3. The stand is an A3 overall. Habitat PARVCo. 1977 Comments: Harvested under contract 41-77A and FTP W-82-32.																																																						
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195	6112 - Lowland Aspen	Poletimber Well	20.9	33	81-110	N/A	2024 YOE Comments: Lowland aspen stand. Switched age to 44 after coring trees. 2008 YOE Comment: OPIC - FMD: The stand is a fairly even mix of bigtooth and quaking aspen. These are mixed with red maple and paper birch. The stand has a ridge in it that has the soil type of Rousseau. overall the stand is wet and has a PARVCo habitat typel. 1989 Comments: Clear-cut under contract 73-022-86-01.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
196	4130 - Aspen	Poletimber Well	16.7	44	51-80	N/A	2024 YOE Comments: Moderately dense aspen. Canopy closure just above 75%. Pockets of aspen are small for their age. Scattered oak were left last time the stand was harvested. Quaking aspen/maple in lowland pockets. Bigtooth/oak on uplands. 2008 YOE Comment: the stand is a mix of uplands and lowlands. Overall the stand is coming along well and should be an A6 in 10 years. Habitat PARVCo amd PARVHa. 1977 Comments: Harvested under contract 13-77.		
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		40	Pole/Sapling	7	44				
Red Maple		20	Sapling/Pole	4	44				
Black/Red (Hybrid) Oak		10	Pole/Sap/Log	8					
Quaking Aspen		30	Pole/Sapling	7	44				
197	4130 - Aspen	Poletimber Medium	32.1	24	Immature	N/A	2024 YOE Comments: Boundary adjusted. NW lowland aspen removed. Stand transitioning into pole class early by of low density. 2008 YOE Comments: The stand is and A3 that has an even mix of quaking and bigtooth aspen with some red maple. It has some pockets of L-Type and G-Type. Also in the south east corner there is a batch of red pine which is less than 1 acre in size. Regeneration is showing a fair amount of browse. Habitat PARVCo and PARVHa. 1997: Harvest under contract 73-015-96-01, Estey Homestead. Cut 2" and up except for pine.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		20	Pole/Sapling	5	24				
Bigtooth Aspen		60	Pole/Sapling	5	24				
Red Maple		5	Sapling	3					
Black/Red (Hybrid) Oak		15	Pole	6					
198	4130 - Aspen	Poletimber Well	13.5	44	81-110	N/A	2024 YOE Comments: Upland aspen stand with lowland pockets. Creek splits stand in the south end. 2008 YOE Comment: The stand is a mix of quaking and bigtooth aspen with some red maple and paper birch. Overall the stand looks healthy and it is moving into poles. 1977 Comments: Harvested under contract 42-77A and FTP W-82-32.		
Canopy Species		% Cover	Size Class	DBH	Age				
Black/Red (Hybrid) Oak		10	Pole/Sap/Log	8					
Red Maple		25	Pole/Sapling	5					
Quaking Aspen		10	Pole	7	44				
Bigtooth Aspen		55	Pole	7	44				
199	4130 - Aspen	Poletimber Medium	14.1	24	Immature	N/A	2024 YOE Comments: Density varies. Some areas are dense while others are sparse. Overall canopy closure is below 75%. Hummocky, low areas have lower site index. 2008 YOE Comment: The stand regenerating well heavy to trembling aspen and red maple A3. The stand is very hummocky and there are pockets of ponded water. 1997: Harvest under contract 73-015-96-01, Estey Homestead. Cut 2" and up.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		30	Pole/Sapling	5	24	Red Maple	Low	10 - 20 feet	Sapling
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Black/Red (Hybrid) Oak		10	Sapling/Pole	3	24	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Red Maple		15	Sapling/Pole	3	24	Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen		35	Pole/Sapling	6	24				
200	4131 - Aspen, Oak	Sapling Poor	17.0	24	Immature	N/A	2024 YOE Comments: Sparse stand close to 25% canopy closure. 2008 YOE Comments: the stand was harvested in 1997 and it is currently mix is A2O1. Deer have been browsing heavily on the regeneration. The habitat type is PARVHa 1997: Harvest under contract 73-015-96-01, Estey Homestead. Cut 2" and up.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		55	Pole/Sapling	6	24	Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Red Maple		15	Sapling/Pole	4	24				
Black/Red (Hybrid) Oak		20	Sapling/Pole	4					
Paper Birch		10	Sapling	3	24				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
201	4131 - Aspen, Oak	Poletimber Medium	6.6	43	1-50	N/A	2024 YOE Comments: Sparse stand. Mixed of aspen, oak, maple, birch. Aspen diameter is larger than average because of open growing conditions. Regeneration failure of aspen is a concern. Former trespass in this stand. New land owner willingly moved previous owners trespass items. 2008 YOE Comment: The stand is on a ridge that is doing fairly well. 1977 Comments: Harvested under contract 13-77.																																																		
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202	6113 - Lowland Maple	Sawtimber Medium	10.9	96	81-110	N/A	2024 YOE Comments: E9 pocket removed from adjacent managed E-type. Wet stand. Canopy closure below 75% due to ash mortality. 2008 YOE Comment: Lots of large wet depressions mixed with dry knolls. The stand ranges from E4/L to E9. The habitat is PARVCo																																																		
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203	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	12.1	24	51-80	N/A	2024 YOE Comments: This stand has decreased in stocking due to ash mortality. Also, a high proportion of the stem density is tag alder and willow. 2008 YOE Comments: The stand was harvested in 1997 and has regenerated well. Currently it is an E3A1. The ground cover is a mix of grass, reed grass, blueberry and some tag alder. The habitat is PARVCo 1997: Harvest under contract 73-015-96-01, Estey Homestead. Cut 2" and up.																																																		
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204	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	18.3	24	1-50	N/A	2024 YOE Comments: Low wet stand, lots of brush. 2008 YOE Comments: The stand was harvested but has not regenerated overly well. Currently it is on E2. The aspen in the stand is restricted to clon and must of the red maple stump sprout are widely scattered and heavily browsed by deer. The habitat is PARVCo. 1997: Harvest under contract 73-015-96-01, Estey Homestead. Cut 2" and up.																																																		
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205	6113 - Lowland Maple	Sawtimber Medium	11.0	94	81-110	N/A	2024 YOE Comments: Ash mortality has created significant down woody material and reduced canopy closure to below 75%. Canopy gaps filling in with maple, ash, and oak saplings. 2006 YOE Comment: the stand has many drains in it and it is quite wet overall. The site has some very nice larger trees. The habitat is PARVCo																																																		
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206	4130 - Aspen	Poletimber Medium	47.0	25	1-50	N/A	2024 YOE Comments: Stand has transitioned to pole class. Canopy closure just under 75%. Next YOE should be above. 2006 YOE Comment: The stand is variable. There are pockets of A3 as well as L-Type. the species is a mix of quaking and bigtooth aspen with maple, birch and oak. The terrain is a mix of slight ridges and draws. The habitat is a mix of PARVHa and PARVCo. 1997: Harvested under contract 73-014-96-01, Ditch Jumper Sale. Cut 2" and up.																																					
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207	6220 - Alder/willow	Nonstocked	3.9	0	Unspecified	No	2024 YOE Comments: New stand. Was part of a larger E-type. Separated out because of extensive ash mortality resulting in a reduced canopy closure. Now non-forested. Pockets of red maple and swamp white oak remain. Heavy to holly/alder/dogwood. 2008 YOE Comment: The stand is a mix of large wet swales with scattered dry knolls. The stand ranges from E9 to E4/L. The habitat is PARVCo																																					
208	6113 - Lowland Maple	Sawtimber Well	13.7	95	51-80	N/A	2024 YOE Comments: Most of the aspen has fallen out of this stand, naturally reducing the stocking.2006 YOE Comment: This stand is fairly high and for the most part dry. The stand needs to be thinned so remove the aspen and paper birch then marking the remaining trees to retain 70 BA. The stand was set up for harvest in Herner Hardwoods Selection sale 73-021-06-01 and was returned to the state.																																					
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209	4130 - Aspen	Poletimber Medium	10.3	23	Immature	N/A	2024 YOE Comments: Switched stand to upland with lowland. 2006 YOE Comment: The stand came back as an A2E2 with an overall stocking of 3. This stand was cut at the same time as stand 153 which did not regenerate well. 1999: Stand harvested under contract 73-035-98-01, D.J. Revisited. Cut 2" and up.																																					
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210	6113 - Lowland Maple	Sawtimber Well	12.4	95	81-110	N/A	2024 YOE Comments: Still too wet. Silver maple/red maple cottonwood dominant. Some canopy release through EAB mortality.2008 YOE Comment: The stand is low and wet. There is a lot of standing water that smells stagnate so the stand does not drain well.																																					
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211	6112 - Lowland Aspen	Poletimber Well	45.9	53	81-110	N/A	2024 YOE Comments: Switching stand from upland to lowland. Connected lowlands amongst somewhat isolated upland knobs. Hydrology of this stand will be a major influence on how it is managed. Based off the harvest to the west, expect regeneration in lowland areas to be slow. 2016: Stand split following treatment closure. This stand was originally part of stand 24 prior to treatment. It was excluded from treatment area to diversify the age class of aspen. 2014 YOE Comment: This stand was cut in 1968 as part of the DRIP program. It is a matrix of uplands and lowlands with the lowlands being about 30%. Terrain is hummocky. There are inclusions of low wet ground that are heavy to swamp white oak and red maple. 1978 Comments: Harvested under contract 11-78A.			
	Canopy Species	% Cover	Size Class	DBH	Age					
	Paper Birch	4	Pole/Sapling	5						
	Bigtooth Aspen	30	Pole/Log	8	53					
	Quaking Aspen	42	Pole	7	53					
Red Maple	24	Pole/Sapling	5							
212	3102 - Grass	Nonstocked	0.5	2021			2020 Oil and Gas Review Comment: producing oil well permit 4869			
213	3104 - Degraded	Nonstocked	0.2	2021			2020 Oil and Gas Review Comment: Plugged well 01/09/1976 Permit 4761			
214	6113 - Lowland Maple	Poletimber Medium	7.4	92	51-80	N/A	2024 YOE Comments: New stand. Older maple/aspen over younger maple poles. West end is upland. Grades to lowland with east end containing marsh grass. 2008 YOE Comment: The stand is a mix of large wet swales with scattered dry knolls. The stand ranges from E9 to E4/L. The habitat is PARVCo			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Red Maple	75	Pole/Sap/Log	8	92	Red Maple		High	>20 feet	Sapling
	Paper Birch	10	Pole	7						
	Bigtooth Aspen	15	Log	14	92					
215	3104 - Degraded	Nonstocked	0.5	2021			2024 YOE Inventory Comments: A patch of phragmites exists in the stand. 2020 Oil & Gas Review Comments: Oil and Gas Review Comment: Plugged 8/6/2003 Permit 15512			
216	3104 - Degraded	Nonstocked	0.2	2021			2020 Oil and Gas Review Comments: well site permit 14683 plugged 9/9/2002			
217	3102 - Grass	Nonstocked	0.4	2021			2020 Oil and Gas Review Comment: well site permit 15325 plugged 12/4/2000			
218	3102 - Grass	Nonstocked	0.4	2021			2024 YOE Comments: Herbaceous open site.			
							2020 Oil and Gas Review Comment: Well site plugged 9/9/2002 permit 15324			
219	3104 - Degraded	Nonstocked	0.5				Well site. No infrastructure on the site. Above ground pipe noted in the area.			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
220	6220 - Alder/willow	Nonstocked	8.4	0		No	<p>2024 YOE Comments: New stand. Was part of a larger E-type. Separated out because of extensive ash mortality resulting in a reduced canopy closure. Now non-forested. Scattered red maple and swamp white oak remain. Stand is heavy to holly/alder/dogwood.</p> <p>2008 YOE Comment: The stand is a mix of large wet swales with scattered dry knolls. The stand ranges from E9 to E4/L. The habitat is PARVCo</p>																													
221	4199 - Other Mixed Upland Deciduous	Poletimber Well	5.3	32	51-80	N/A	<p>2024 YOE Comments: New stand. Residual pole oak over sapling maple. 2008 YOE Comment: OPIC - FMD: The stand is a mix of large wet swales with scattered dry knolls. The stand ranges from E9 to E4/L. The habitat is PARVCo</p>																													
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222	6225 - Bog	Nonstocked	1.2	0		No	<p>2024 YOE Comments: New stand. Leather leaf bog separated out from surrounding stand.</p> <p>2008 YOE Comment: The stand is doing very well overall. There is variable it ranges from A1/L to V to A3. The stand is an A3 overall. Habitat PARVCo</p>																													
223	6220 - Alder/willow	Nonstocked	1.8			No	<p>2008 YOE Comment: This stand is a beaver flooding that has occurred in the last 10 years. There are still trees in the stand but are quickly dying off.</p>																													
224	500 - Water	Nonstocked	5.2			No	<p>2008 YOE Comment: This stand is a beaver flooding.</p>																													
225	4119 - Mixed Northern Hardwoods	Sawtimber Well	5.4	92	51-80	N/A	<p>2024 YOE Comments: New stand. Split out from adjacent lowland. This is a forested buffer around and between non-forested lowlands. The stand is narrow and small. Serves as ecological diversity. Maintain as is.</p> <p>2008 YOE Comment: This stand is in a depression and it is low and wet. The covertime is lowland brush of mainly tag alder and willow. There are some swamp hardwood trees in the stand but they are widely scattered with the majority being along the edges of the stand.</p>																													
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226	6113 - Lowland Maple	Sawtimber Medium	6.1	92	1-50	N/A	<p>2024 YOE Comments: Small stand isolated by county ditch and lowland swales. Not worth managing. Canopy closure is below 75%. Aspen and ash mortality. Gaps are filling in with maple. 2008 YOE Comments: The stand is regenerating well and it is an A6. The stand has 1 main ridge which a 2-track that is high and dry. The rest of the stand has a lot of up and down. The low area are variable ranging from A4/L to A6. The main aspen species is quaking aspen. The upland ranges from A4/G to A6 it is mainly bigtooth aspen. The area is also mixed with red maple and balsam popular.</p>																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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227	4139 - Aspen, Mixed Deciduous	Poletimber Medium	13.3	44	1-50	N/A	2024 YOE Comments: Stand boundaries updated. New stand is mostly on a ridge. Sparse aspen poles with pole/sapling maple underneath. Some areas are very open other areas have better stocking. Maple, birch, and oak are slowly filling the understory. 2008 YOE Comments: The stand is regenerating well and it is an A6. The stand has 1 main ridge which a 2-track that is high and dry. The rest of the stand has a lot of up and down. The low area are variable ranging from A4/L to A6. The main aspen species is quaking aspen. The upland ranges from A4/G to A6 it is mainly bigtooth aspen. The area is also mixed with red maple and balsam popular. 1978 Comments: Harvested under contract 11-78A.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Pole/Sapling	5	44	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	5	Pole/Sapling	5	44	Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	15	Pole/Sapling	5	44				
Bigtooth Aspen	40	Pole	8	44				

228	6220 - Alder/willow	Nonstocked	8.2			No	2008 YOE Comment: This stand is in a depression and it is low and wet. The covertype is lowland brush of mainly tag alder and willow. There are some swamp hardwood trees in the stand but they are widely scattered with the majority being along the edges of the stand.
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229	6113 - Lowland Maple	Poletimber Medium	5.6	44	1-50	N/A	2024 YOE Comments: New stand separated out from larger aspen stand. This stand is lowland with dense brushy understory. Canopy closure is below 75% because of ash mortality. 2008 YOE Comment: The stand is regenerating well and it is an A6. The stand has 1 main ridge which a 2-track that is high and dry. The rest of the stand has a lot of up and down. The low area are variable ranging from A4/L to A6. The main aspen species is quaking aspen. The upland ranges from A4/G to A6 it is mainly bigtooth aspen. The area is also mixed with red maple and balsam popular. 1978 Comments: Harvested under contract 11-78A.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	65	Pole/Sapling	7	44	Michigan Holly	High	5 - 10 feet	Tall Shrub
Paper Birch	10	Pole/Sapling	5		Tag Alder	High	5 - 10 feet	Tall Shrub
Swamp White Oak	10	Pole/Sap/Log	5					
Quaking Aspen	15	Pole	8	44				

230	4130 - Aspen	Poletimber Well	6.4	44	81-110	N/A	2024 YOE Comments: Dense aspen pocket split out from former larger stand. Some low ground but mostly an upland ridge. 2008 YOE Comment: The stand is regenerating well and it is an A6. The stand has 1 main ridge which a 2-track that is high and dry. The rest of the stand has a lot of up and down. The low area are variable ranging from A4/L to A6. The main aspen species is quaking aspen. The upland ranges from A4/G to A6 it is mainly bigtooth aspen. The area is also mixed with red maple and balsam popular. 1978 Comments: Harvested under contract 11-78A.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	35	Pole/Log	9	44	Red Maple	Low	10 - 20 feet	Sapling
Quaking Aspen	55	Pole	8	44				
Red Maple	10	Pole	6	44				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
231	4311 - Pine, Aspen Mix	Poletimber Well	11.0	44	51-80	N/A	2024 YOE Comments: New stand. White pine pocket separated out from surrounding stand. 2008 YOE Comments: The stand is regenerating well and it is an A6. The stand has 1 main ridge which a 2-track that is high and dry. The rest of the stand has a lot of up and down. The low area are variable ranging from A4/L to A6. The main aspen species is quaking aspen. The upland ranges from A4/G to A6 it is mainly bigtooth aspen. The area is also mixed with red maple and balsam poplar. 1978 Comments: Harvested under contract 11-78A.																																									
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232	6112 - Lowland Aspen	Poletimber Well	9.1	24	Immature	N/A	2024 YOE Comments: New stand. Split from stand to the south. This stand is dense aspen/maple with cedar component. Some alder/willow openings scattered throughout. Canopy closure is above 75%. 2014 YOE Comment: The terrain is hummocky. There is cedar at the north end of the stand. There are a lot of wet openings that are heavy to tag alder and willow. There is a dry ridge that runs east to west through the central portion of the stand. This stand was harvested as a 2" DBH final harvest in 1997. The regeneration is not very uniform. 1998: Stand harvested under contract 73-066-95-01, Heron House Aspen. Cut 2" and up except for scattered cedar and hemlock.																																									
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233	4130 - Aspen	Poletimber Medium	26.4	33	51-80	N/A	2024 YOE Comments: Stand boundary updated. Size class is now pole. Canopy closure reduced to under 75%. Former dense areas shifted to adjacent lowland stands. 2014 YOE Comment: The stand was harvested in 1988. It is on a ridge that grades from aspen to red maple. The middle arm has a significant component of birch. The northern portion has inclusions of lowlands. There ridges have upland openings as well. 1988: Stand harvested in 1988 under contract 73-003-87-01, S.T.S - 52. Cut all trees 2" and up.																																									
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234	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.8		Immature		2024 YOE Comment: New stand. Oil and gas development. State Bentley RL - A4-30. Pump jack, excess burner, 3 tank batteries. 2016: Stand split following treatment closure. This stand was originally part of stand 24 prior to treatment. It was excluded from treatment area to diversify the age class of aspen. 2014 YOE Comment: This stand was cut in 1968 as part of the DRIP program. It is a matrix of uplands and lowlands with the lowlands being about 30%. Terrain is hummocky. There are inclusions of low wet ground that are heavy to swamp white oak and red maple.																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
235	4319 - Mixed Upland Forest	Poletimber Medium	9.2	33	1-50	N/A	2024 YOE Comments: New stand. Split out from stand 151. Cradle/knoll flat. Upland/lowland land position. Sparse pine/mixed deciduous with dense ground cover. Saplings filling into some sparse areas. 1990 Comments: Clear-cut under contract 73-014-89-01.																																																								
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236	6113 - Lowland Maple	Poletimber Well	9.1	95	51-80	N/A	2024 YOE Comments: Split stand. This is the operable portion of the former stand. Stand becomes more wet towards the NW. Two aged stand with a higher proportion of 1927 year of origin stems verses 1976 year of origin stems. Maple and oak are a mix of age classes. 2014 YOE Comments: Large portion not operable- too wet. Also BA too low to do selection harvest. Hydrology 4 of 10 (10 driest). Consider 4" spec CC in 10 or 20 yrs: Let understory fill in 1st.																																																								
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237	4130 - Aspen	Poletimber Well	11.8	44	81-110	N/A	2024 YOE Comments: New stand. Split off from stand 211. Upland portion of the former stand. Stand is dominated by bigtooth aspen. Isolated lowland pockets. The transition between this stand and stand 211 is not easily defined. 2016: Stand split following treatment closure. This stand was originally part of stand 24 prior to treatment. It was excluded from treatment area to diversify the age class of aspen. 2014 YOE Comment: This stand was cut in 1968 as part of the DRIP program. It is a matrix of uplands and lowlands with the lowlands being about 30%. Terrain is hummocky. There are inclusions of low wet ground that are heavy to swamp white oak and red maple. 1978 Comments: Harvested under contract 11-78A.																																																								
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238	6229 - Mixed lowland shrub	Nonstocked	3.5	2021		No	2024 YOE Comments: New stand. Split off from stand 211. After ash die off this area switched to non-forested. Sparse maple trees with michigan holly/tag alder understory. 2016: Stand split following treatment closure. This stand was originally part of stand 24 prior to treatment. It was excluded from treatment area to diversify the age class of aspen. 2014 YOE Comment: This stand was cut in 1968 as part of the DRIP program. It is a matrix of uplands and lowlands with the lowlands being about 30%. Terrain is hummocky. There are inclusions of low wet ground that are heavy to swamp white oak and red maple.																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
239	6239 - Mixed Emergent Wetland	Nonstocked	3.5	2021		413 - Aspen	2024 YOE Comments: Lowland area that has not regenerated. Marsh grass, tag alder, scattered lowland hardwood, and phragmites. 2012: Stand harvested under contract 73-019-08-01, South Bentley. Cut all trees 2" and up. No retention.			
240	6113 - Lowland Maple	Poletimber Poor	8.1	66	1-50	N/A	2024 YOE Comments: Stand split out from marsh stand. Canopy is primarily maple poles. Closure has been reduced because of EAB and flooding. Understory is heavy to lowland shrubs and marsh grass. 2008 YOE Comments: Stand is an emergent marsh with open water. Around the water there is a wide band of marsh grass and cattail then a band of lowland shrub. The water itself is full of lily pads.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	75	Pole/Sap/Log	7	66	Michigan Holly	High	5 - 10 feet	Tall Shrub
		Swamp White Oak	20	Pole/Sap/Log	7		Tag Alder	High	5 - 10 feet	Tall Shrub
		Paper Birch	5	Pole/Sapling	5					
241	4130 - Aspen	Poletimber Well	10.4	23	Immature	N/A	2024 YOE Comments: Well stocked regeneration area split out from larger stand. Bigtooth aspen growing on upland sand ridges, quaking aspen growing on sand flats. Dense holly understory around the edges of the stand. Some oak saplings in the understory on sand ridges. 2008 YOE Comments: OPIC - FMD: The stand has regenerated as a patchy A2 with lots of open areas. The patches are A3 and the opening are G-types. May want to plant the opening to jack pine when stand 158 is being interplanted. 1999: Stand harvested under contract 73-035-98-01, D.J. Revisited. Cut 2" and up.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Quaking Aspen	25	Pole/Sapling	5	23	Michigan Holly	Medium	5 - 10 feet	Tall Shrub
		Bigtooth Aspen	45	Pole/Sapling	5	23	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
		Paper Birch	10	Sapling/Pole	4	23				
		Red Maple	10	Sapling/Pole	4	23				
		Black/Red (Hybrid) Oak	10	Sapling/Pole	4	23				
242	6113 - Lowland Maple	Sawtimber Medium	6.3	95	51-80	N/A	2024 YOE Comments: New stand. Separated from e-type to the south. Scattered upland knobs bisected with very wet drainages. Knobs have aspen which are dying. Drainages have sparse maple. Released understory is ash/maple/oak. 2008 YOE Comment: The stand is low and wet. There is a lot of standing water that smells stagnate so the stand does not drain well.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Black/Red (Hybrid) Oak	10	Pole/Log/Sap	8		Green Ash	Medium	10 - 20 feet	Sapling
		Quaking Aspen	10	Log	14	95	Black/Red (Hybrid) Oak	Low	>20 feet	Sapling
		Red Maple	65	Log/Pole/XLog	10	95	Tag Alder	Medium	5 - 10 feet	Tall Shrub
		Bigtooth Aspen	15	Log	14	95	Red Maple	Low	>20 feet	Sapling
243	6113 - Lowland Maple	Poletimber Poor	21.8	32	1-50	N/A	2024 YOE Comments: Sparse lowland stand. Scattered aspen pockets between maple saplings and open areas. Density decreased approximately 25% after ash mortality. 2008 YOE Comments: The stand is high and dry. The stand will be a pole stand in 10 years.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	75	Pole/Sapling	5	32	Michigan Holly	High	5 - 10 feet	Tall Shrub
		Quaking Aspen	25	Pole	6	32	Tag Alder	Medium	5 - 10 feet	Tall Shrub
244	6113 - Lowland Maple	Poletimber Well	5.1	80	51-80	N/A	2024 YOE: Stand split out from larger former stand. Wetland buffer and wet area exclusion. Mix of diameter classes. Will eventually be an uneven aged stand. Leave as a permanent buffer. 2008 YOE Comments: The stand has regenerated as a patchy A2 with lots of open areas. The patches are A3 and the opening are G-types. May want to plant the opening to jack pine when stand 158 is being interplanted. 1999: Stand harvested under contract 73-035-98-01, D.J. Revisited. Cut 2" and up.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	100	Pole/Log/Sap	9	81	Michigan Holly	Medium	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
245	6113 - Lowland Maple	Poletimber Poor	7.7	24	1-50	N/A	2024 YOE Comments: Split out from larger stand. Low area with sparse regeneration. Large areas of open marsh grass & lowland shrubs. Just over 25% canopy closure. Harvested in 1989.																																																						
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246	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	20.6	23	1-50	N/A	2024 YOE Comments: Sparse regeneration area. Road runs along an upland sand ridge, southern edge. Some oak saplings filling in. Rest of the stand is lowland. Hardwood saplings slowly filling in replacing lowland shrubs.																																																						
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247	622 - Lowland Shrub	Nonstocked	9.1			No	2024 YOE Comments: Holly/alder stand split out from larger wetland stand. Drainage ditch bisects the stand. 2008 YOE Comments: Stand is an emergent marsh with open water. Around the water there is a wide band of marsh grass and cattail then a band of lowland shrub. The water itself is full of lily pads.																																																						
248	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	12.1	33	1-50	N/A	2024 YOE Comments: Stand split. This is the lowland, sparsely stocked portion of the former stand. Canopy closure is just above 50%. Understory is heavy to michigan holly and other lowland shrubs. Cover-type also switched from aspen to lowland hardwood.																																																						
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249	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	10.0	60	51-80	N/A	2024 YOE Comments: New stand. Split off from aspen stand to the west because of lowland stand condition. Aspen decline and ash mortality is allowing forest succession. Maple, oak, ash saplings filling in understory.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
250	6229 - Mixed lowland shrub	Nonstocked	5.8		Immature	No	2024 YOE Comments: New stand. Was formerly part of E-type. This portion is below 25% canopy closure. 2006 YOE Comment: The stand is low and wet. Much of the stand has standing water in it. The habitat is PARVCo																																									
251	6225 - Bog	Nonstocked	1.4	0		No	2024 YOE Comments: New stand. This is the central portion of the former stand that is still non-forested. 2008 YOE Comment: The stand was typed up as a L-Type 10 years ago. The stand is now an E2 overall the center is still more of an L-type. The cover type is made up of maple and ash mainly. The understory is tag alder. The avg. DBH is 2". The stand is very wet. The habitat is PARVCo																																									
252	4133 - Aspen, Mixed Pine	Sapling Poor	7.5	25	Immature	N/A	2024 YOE Comments: New stand. Separated out from adjacent aspen stand. Canopy closure is below 50%. White pine/red pine are more prevalent. Cradle/knolls with some standing water. 2008 YOE Comments: The stand is and A3 that has an even mix of quaking and bigtooth aspen with some red maple. It has some pockets of L-Type and G-Type. Also in the south east corner there is a batch of red pine which is less than 1 acre in size. Regeneration is showing a fair amount of browse. Habitat PARVCo and PARVHa. 1997: Harvest under contract 73-015-96-01, Estey Homestead. Cut 2" and up except for pine.																																									
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253	629 - Mixed non-forested wetland	Nonstocked	17.1			No	2024 YOE Comments: Split out from central Z type. This stand is a mixed non-forested wetland buffer around a beaver flooding. Historically this stand had an ash canopy. Current condition is dead ash over holly/alder patches and marsh grass. 2006 YOE Comment: The stand was a Z-Type 10 years ago because of beaver activity and has since drained down and is mainly a L-Type. There are still areas of water in the stand.																																									