



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73106

Entry Year 2023

Acreage: 3,932

County Midland

Management Area: Midland-Isabella

Revision Date: 2021-06-01

Stand Examiner: Scott Shooltz

Legal Description:

T 15N, R 01W, Sections: 9, 10, 15, 16, 17, 19, 20, 21, 22, 29, 30, 31 & 32.

T 15N, R 02W, Sections: 24, 25 & 36.

Identified Planning Goals:

Identified planning goals for compartment 106 which is in the Midland-Isabella management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character; threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the age-class distributions for aspen and oak as well as refining the manageable land-base through site condition inventory. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends in this 10-year planning period will be the continued need to address illegal off-road vehicle use and trash dumping.

Soil and topography:

Soil type classifications are as follows: Kingsville loamy fine sand - 37%; Pipestone - 23%; Covert sand - 18%; Kinross mucky sand - 6%; Belleville loamy sand - 5%; Selfridge loamy sand - 5%; Miscellaneous others - 6%. These soils are mostly poorly drained sands and sandy loams with scattered dry ridges with good drainage. Topography is mostly level to slightly rolling, with steep banks along the Big Salt River, Mud Creek, Bluff Creek, and Teed Drain.

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

Compartment 106 has 31.9 miles of private land interface surrounding three separate state land blocks. Ownership surrounding the compartment is comprised of small to medium sized parcels which are mostly permanent residences. Areas along 9 Mile Rd and Huckleberry Rd are the most developed. There are more medium to large sized forested parcels around the west side of the compartment which are most likely recreational properties. Five blocks of private land ranging from 40 to 160 acres and from 1 to 13 distinct tax IDs are surrounded by compartment 106 and the east end of compartment 111. All of the parcels appear to have legal access to county roads and do not rely on state forest roads.

Unique Natural Features:

There have been numerous sightings of wood turtles along the Salt River in sections 9 and 16. There are historical records of Snuffbox mussel reported in the rivers and creeks near the compartment. Also to the east are reports of Ellipse and Slippershell (mussels). To the southeast of the compartment are reports of Red-Shoulder Hawk and Bald Eagle. To the southwest there are records of Riverine Snaketail (dragonfly). In addition, there are records of Three-Awned grass located in the compartment. There are also many rare flood plain plants reported near the compartment, including Forked Aster, American Beak Grass, and Broad-Leaved Puccoon. There are also historical records of Hayden's Sedge and Carex Seorsa Sedge.

Archeological, Historical, and Cultural Features:

There are archeological and/or cultural concerns in sections 10, 15, 21, 29, & 32.

Special Management Designations or Considerations:

Pine Haven Recreation Area is located in sections 9, 10, 15 & 16 between US - 10 and Saginaw Rd. This area is under a ten year lease to Midland County to be utilized for outdoor recreation. This area is also to be managed for old growth forests. The current lease expire March 22, 2021 with a possibility of renewal for an additional 10 years.

Watershed and Fisheries Considerations:

The Mud Creek, Bluff Creek and the Big Salt River flow through the compartment. These are warm water fisheries.

Wildlife Habitat Considerations:

Wildlife Habitat Considerations: Compartment 106. This compartment is centrally located within Midland County and contains the Pine Haven Recreation Area maintained by the Midland County Parks and Recreation. The majority of stands are lowland cover types. Furbearers including beaver, mink, muskrat, otter, 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, 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, redbellied vireo, white-breasted nuthatch, tufted titmouse, black-capped chickadees, eastern kingbirds and northern flicker. The compartment is easily accessible to hunters via Nielson Road and 9 Mile Road.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of Lacustrine (lake) sand and gravel. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift are the Jurassic Red Beds and the Pennsylvanian Grand River and Saginaw Formations. The Saginaw Formation is used for clay/shale in other areas of the State. This area is predominantly sand, and gravel potential in the compartment is considered limited. This area is sparsely explored for oil and gas. Jerome Field, discovered in 1951, is the closest field. It has produced more than 265,648 BO from the Dundee. There has been recent oil and gas leasing of State minerals two miles to the northeast of the compartment. The Compartment is leased for oil and gas development, and most of it is also leased for nonmetallic potash. (2011 comments)

Vehicle Access:

Access to the edges of the compartment is good to fair. The compartment is surrounded by paved and graveled county roads with available places to pull off and park. Access to the interior of the compartment is good to poor. State forest roads which connect to 9 Mile Rd in sections 16 and 21 have been improved with gravel and culverts and stretch into the interior of that portion of the compartment. Limited access extends from there into sections 17 and 20. The rest of the compartment has few roads which have been improved or reach the interior of the state land block. This is because of poor soil conditions and large county drains and ditches which run along the county roads in the area. Sections 29, 30, 31, and 32 are particularly hard to access. Vehicle access within Pine Haven Recreation Area is not permitted. State forest roads within the compartment are mixed open and closed to ORV traffic. Roads in sections 19, 24, 25, and 30 are closed to ORV traffic. Some illegal vehicle access is occurring throughout the compartment: ORV use on roads closed to ORVs, user created roads extending from adjacent private landowners, and vehicle use extending past the end of open roads.

Survey Needs:

Survey needs for the compartment are in T 15N, R 01W, Sections 19, 29, and 30. Also in T 15N, R 02W, Sections 24, 25, and 36. Survey work is required for potential forest management work and potential trespass resolution.

Recreational Facilities and Opportunities:

Pine Haven Recreation Area has numerous opportunities for non-motorized recreation including: hiking, mountain bike riding, cross-country skiing, fishing, and wildlife viewing. The Pere-Marquette Rail Trail (T15NR01WSec.16) runs through the compartment paralleling Saginaw Rd. This trail is paved and offers other opportunities for non-motorized recreation. Dispersed Hunting and public use of state land occurs off the various county roads or from adjacent private property owners. Much of the state forest roads are closed to ORV use.

Fire Protection:

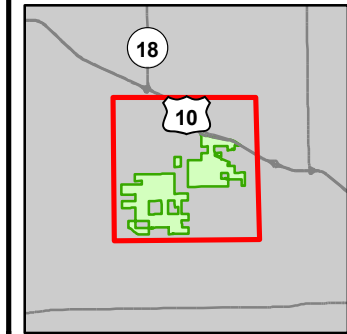
This compartment is located near the DNR Sanford Field Office and the Jerome Township Fire Department. The fuel load is mainly hardwood leaf litter and bracken fern. There are some urban interface concerns along 9 Mile, 10 1/2 Mile, and 11 Mile roads as well as in Pine Haven Recreation Area. Soils and terrain may be a problem for fire suppression because of seasonal soil wetness and steep banks adjacent to some rivers and creeks. Those same rivers and creeks, however should act as natural fuel breaks to limit fire spread. Overall, the fire concern is low to moderate for the compartment.

Additional Compartment Information:

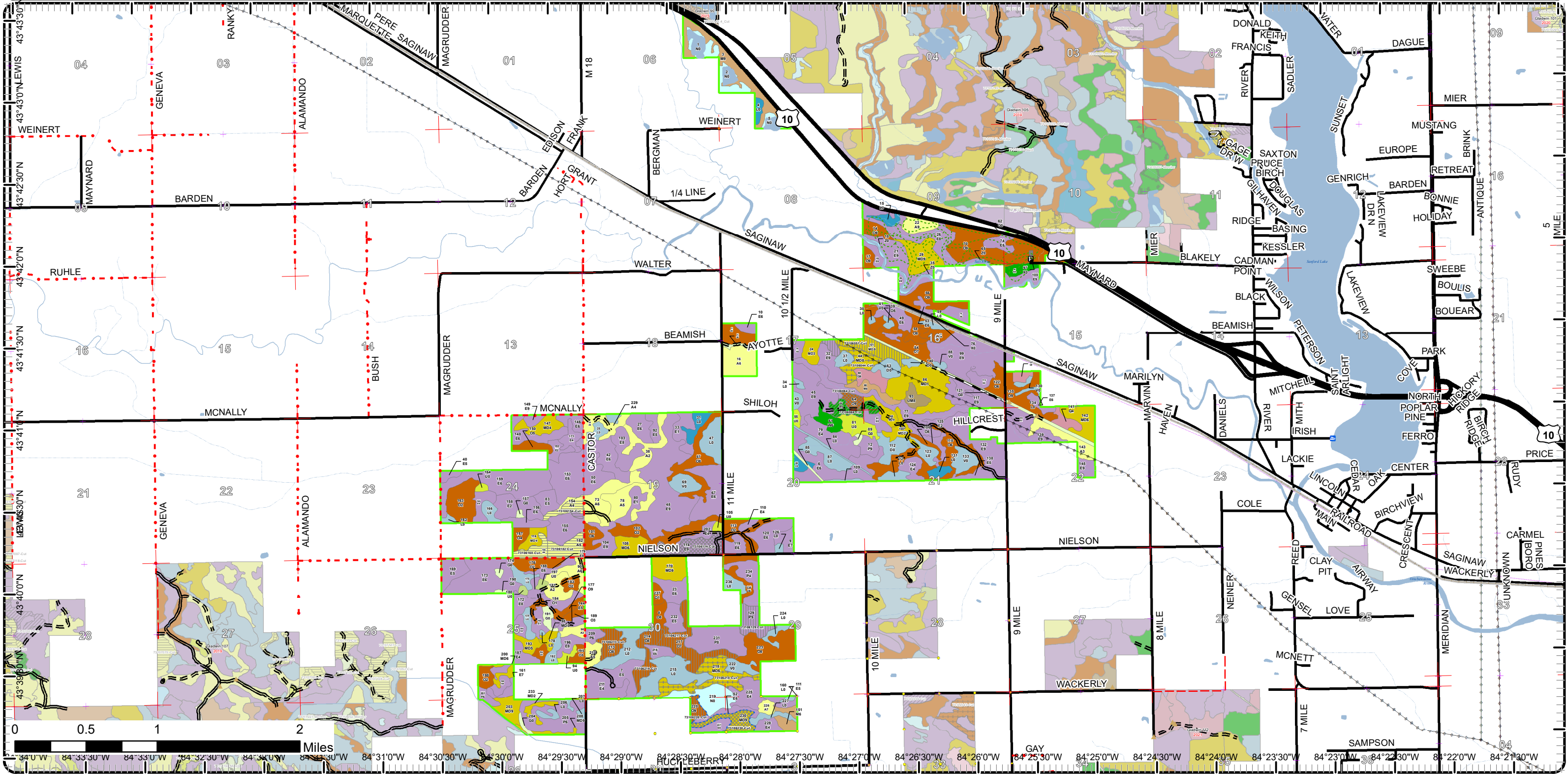
New compartment 106 is a combination of several historic compartments within the Gladwin Management Unit.

Cover Type & Treatments Map

Compartment: 106
 T15N R01W Sec. 09,10,15-17,19-22
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 T15N R012W Sec. 24,25,36
 County: Midland
 Unit: Gladwin
 Mgmt Area: Midland-Isabella
 YOE: 2023
 Acres: 3931.8 GIS Calculated
 Examiner: Scott Shooltz
 Map Revised: 6/7/2021
 Map Phase: Web-Post

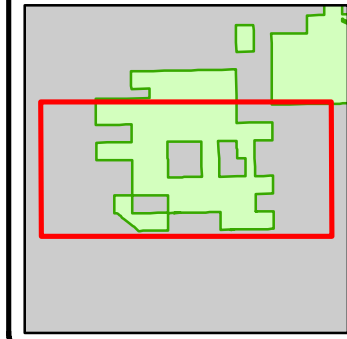


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- - - Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Paved Road
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Designated Hiking Trails
- - - Designated Bicycle Trails
- - - Designated Ski Trails
- Non-Designated Rail Trail
- ▲ Berms
- Ⓟ Culvert
- Ⓟ Parking Lot
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ⚡ Powerline
- Non-Designated Recreational Trail
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

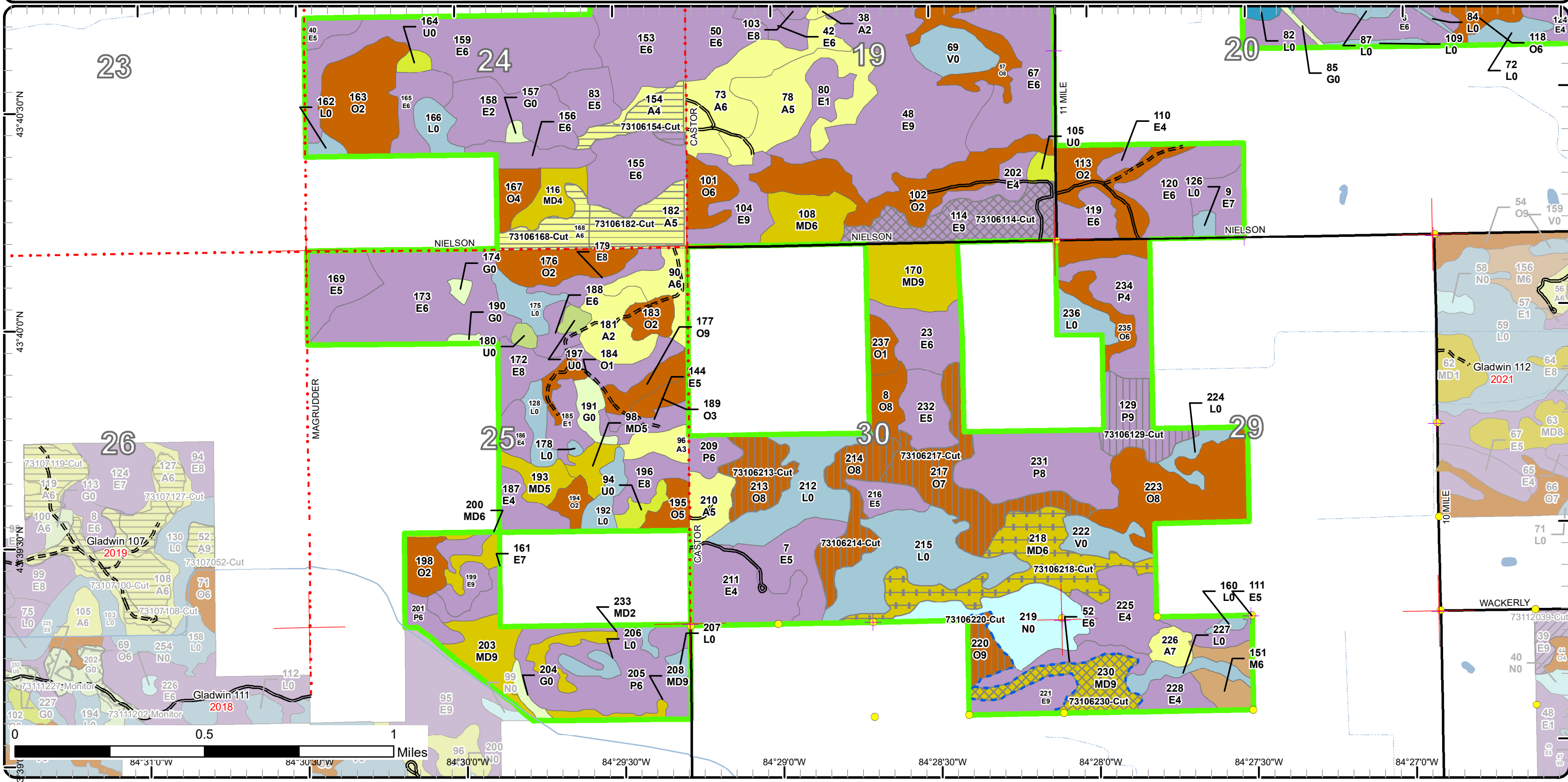


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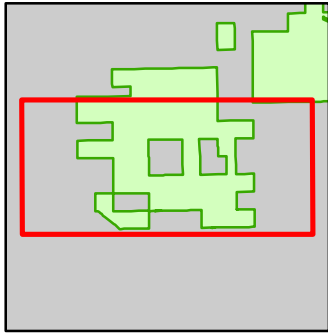


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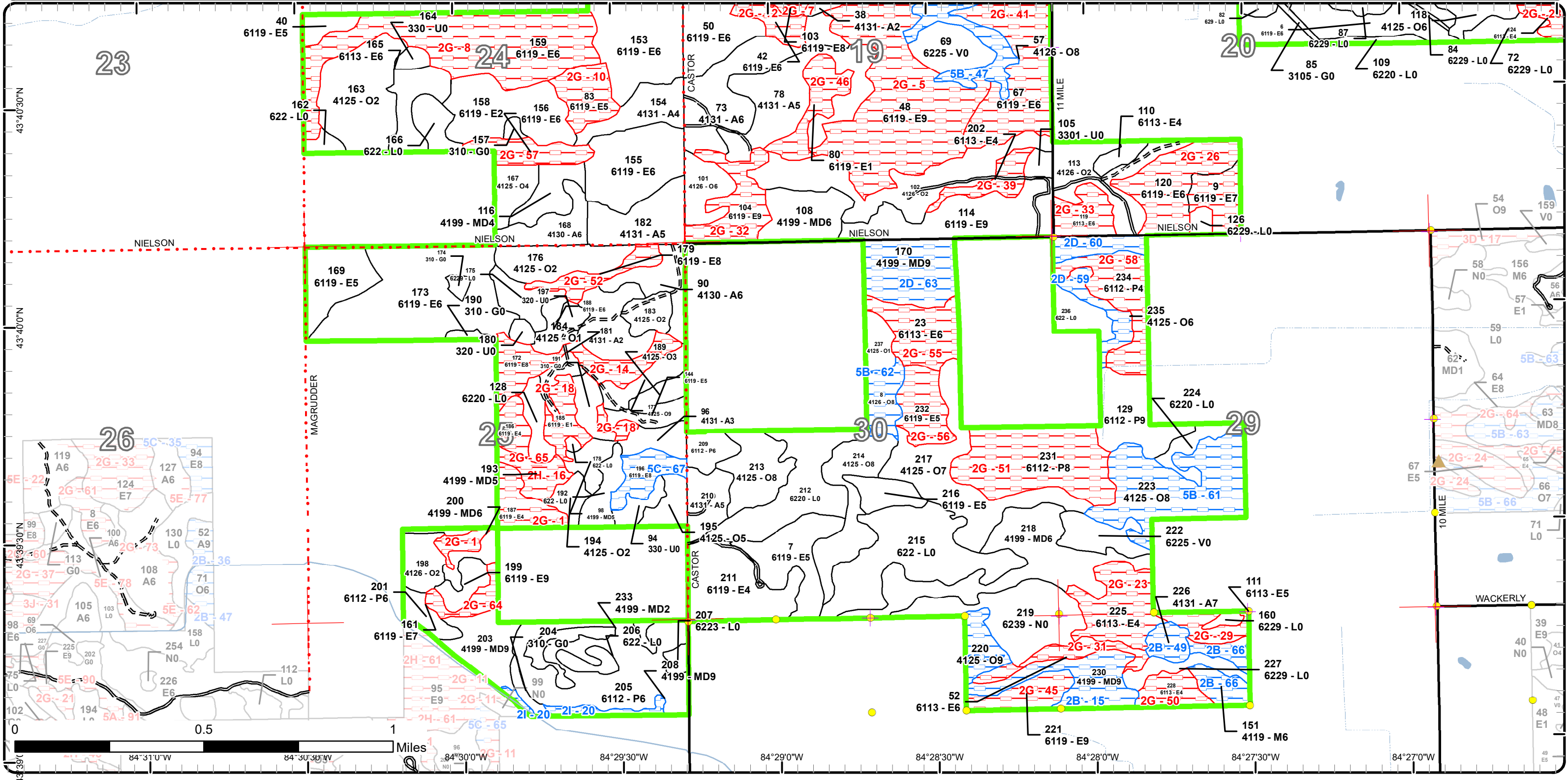


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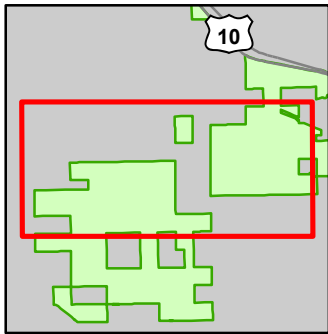


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- Available w/ Constraints
- Unavailable
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries

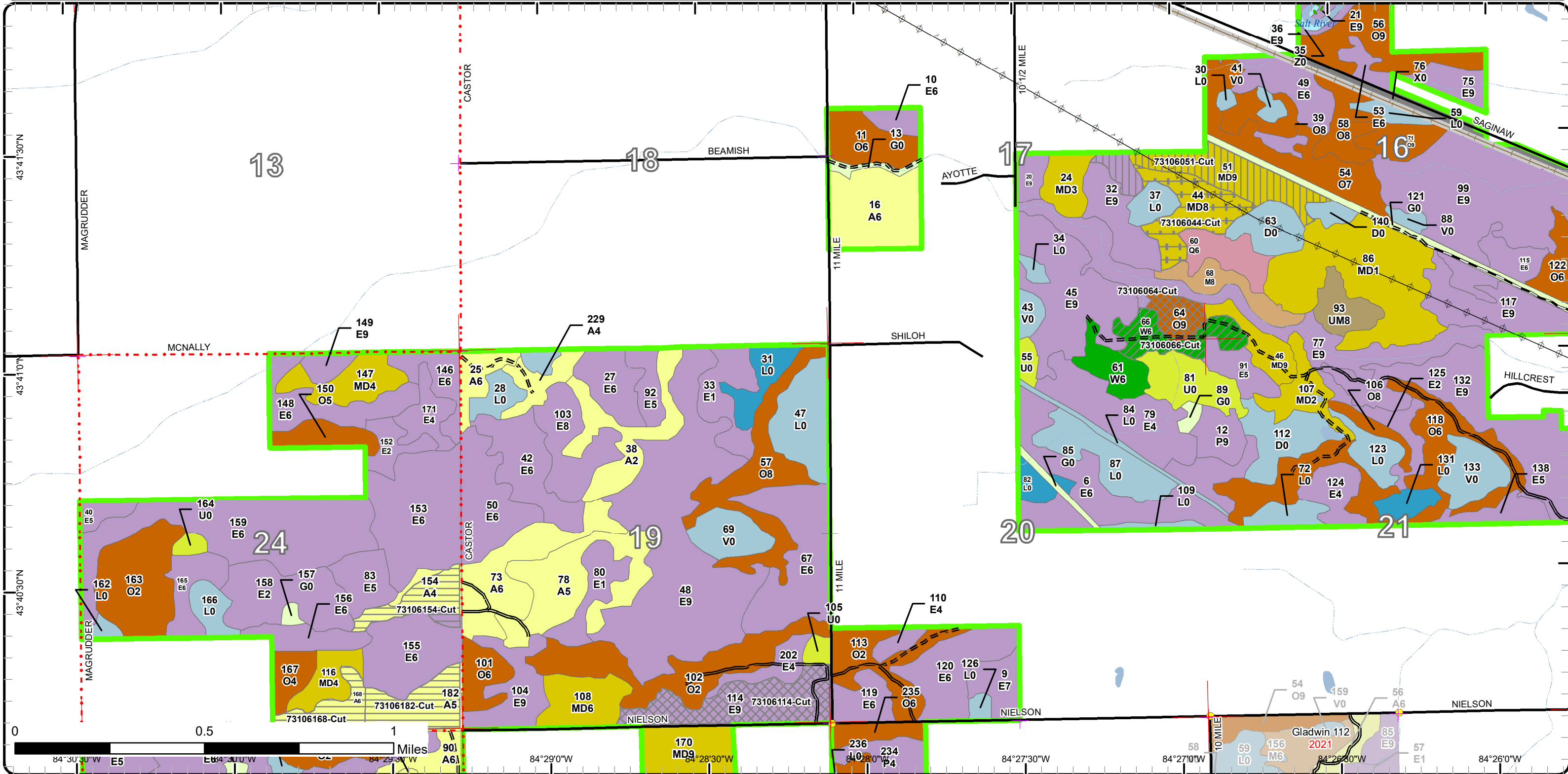


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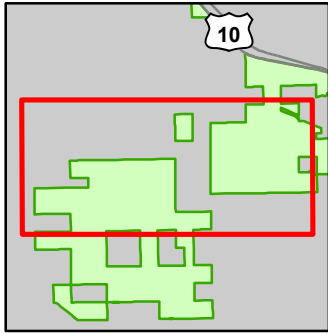


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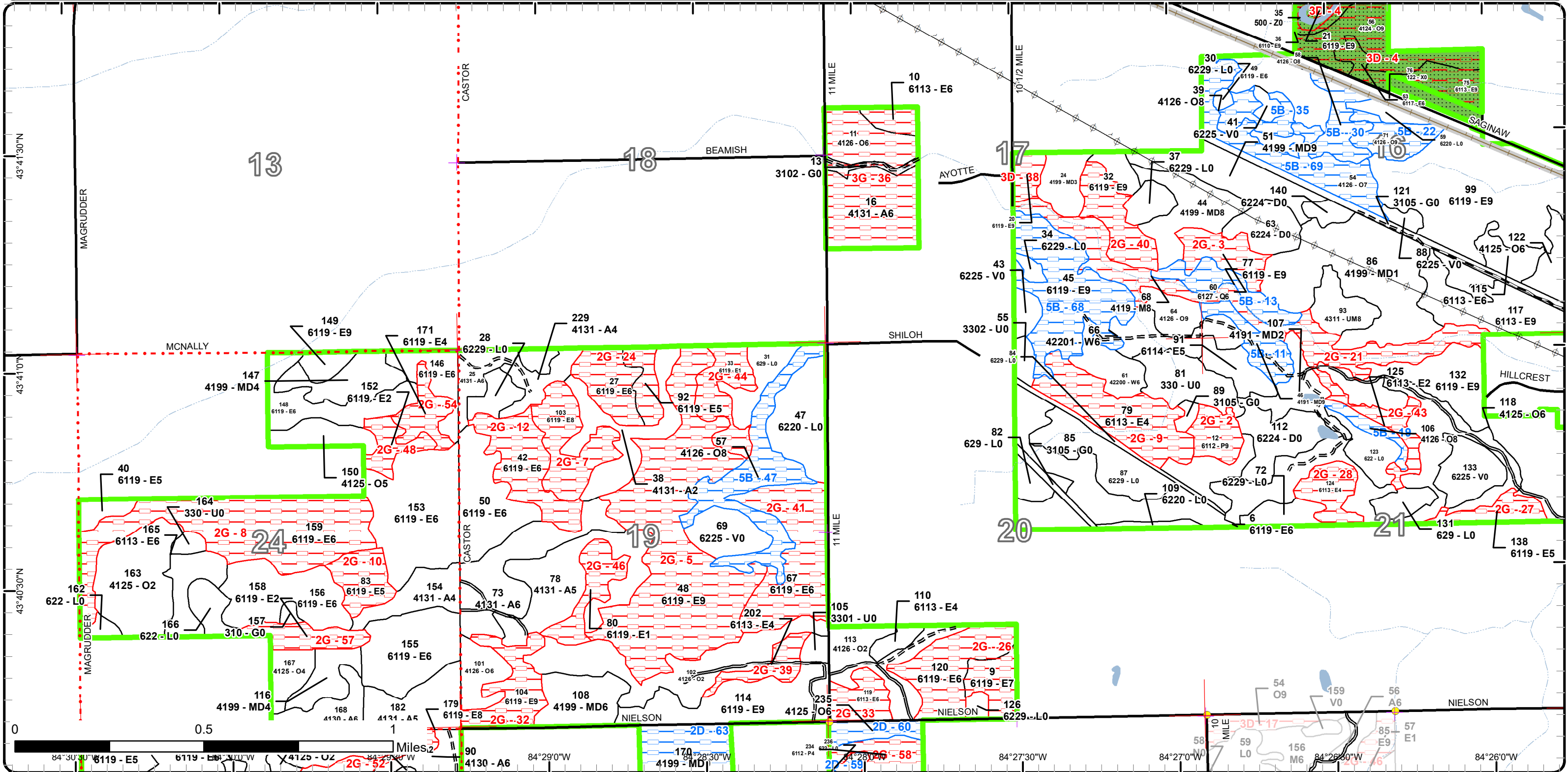


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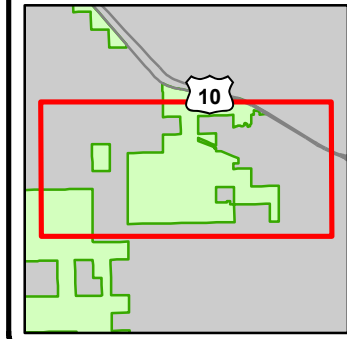


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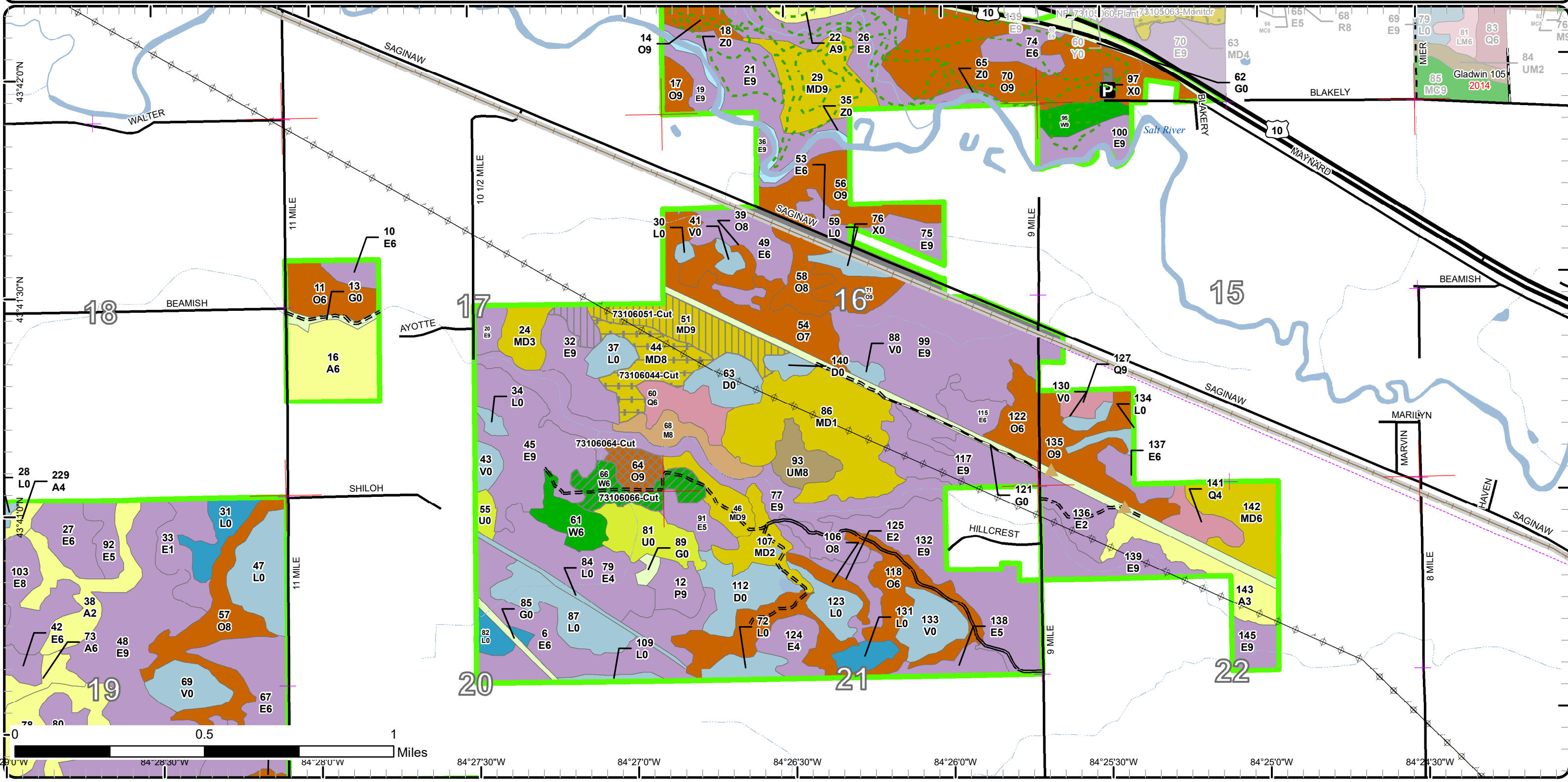


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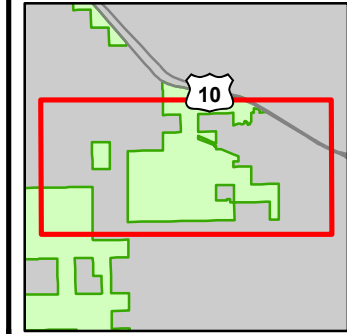


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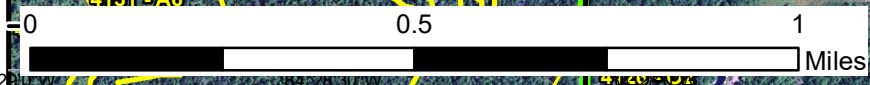
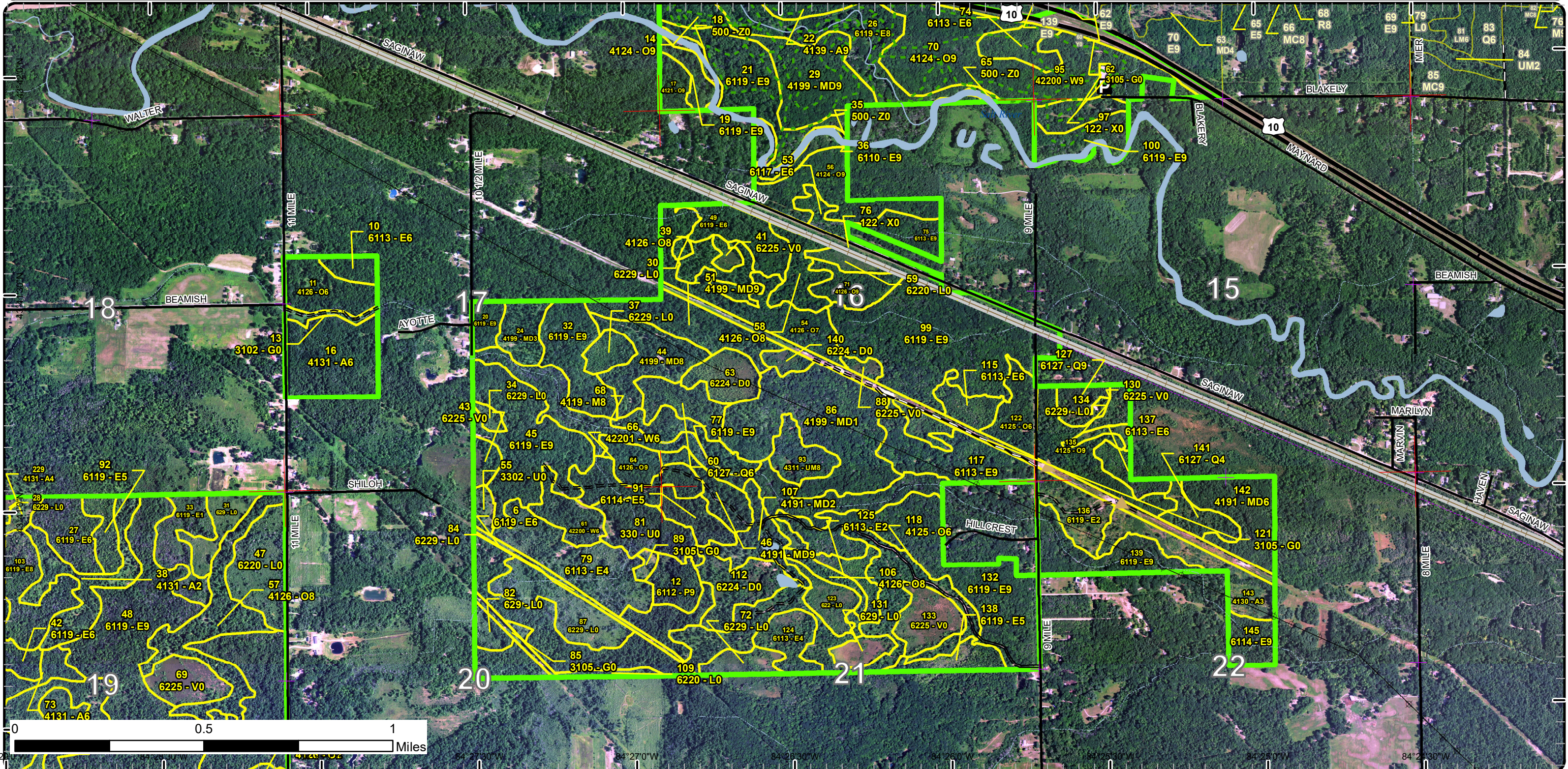


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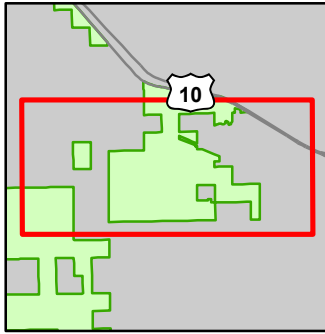
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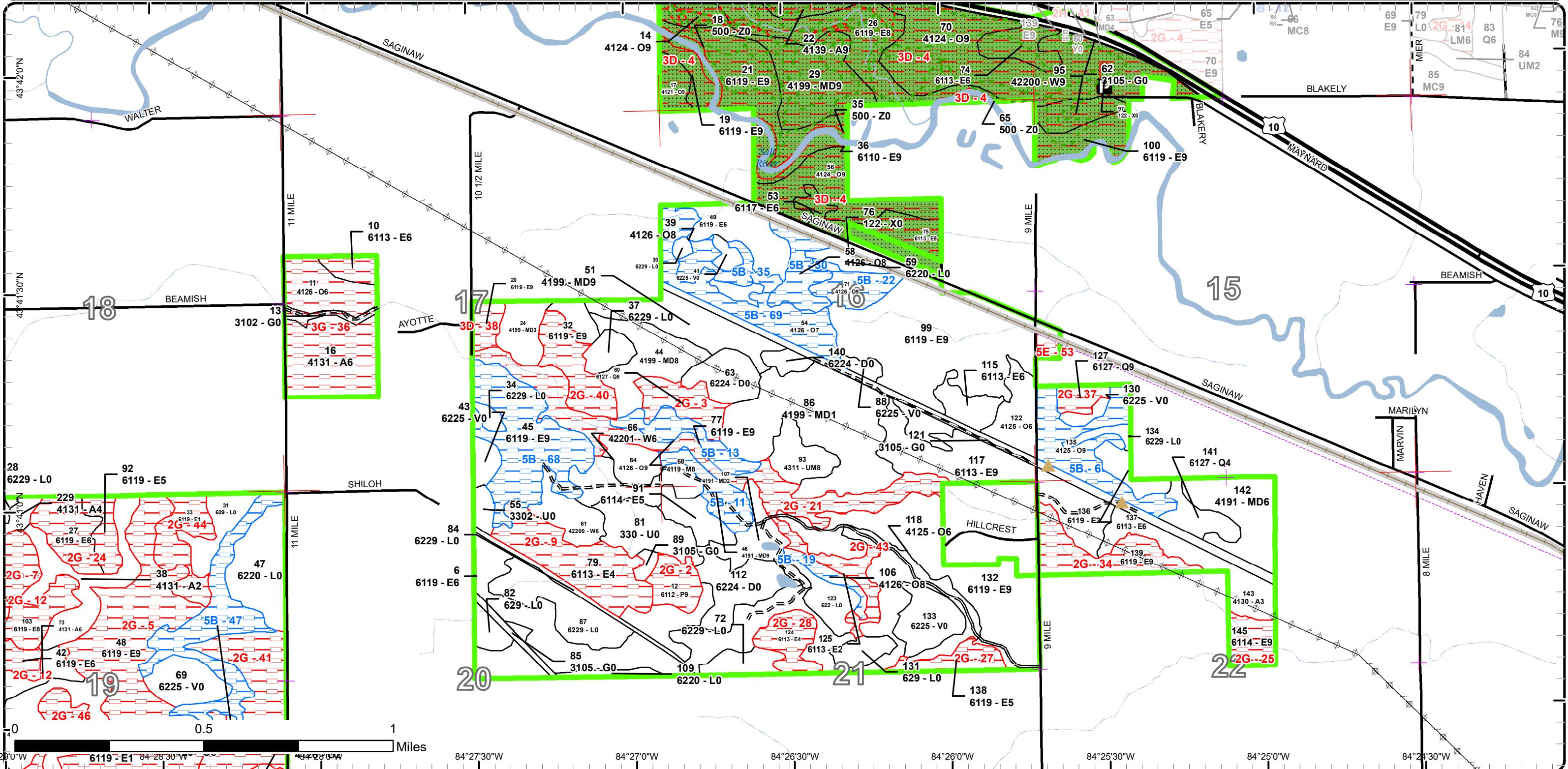
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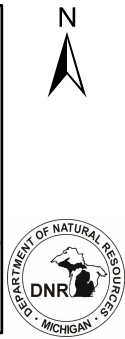
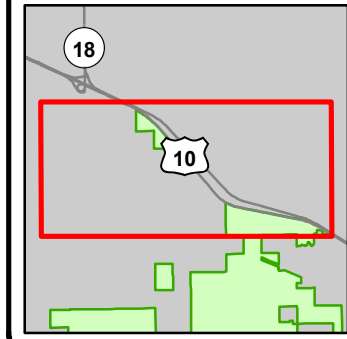
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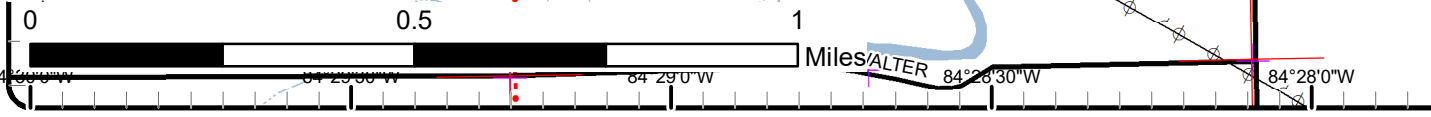
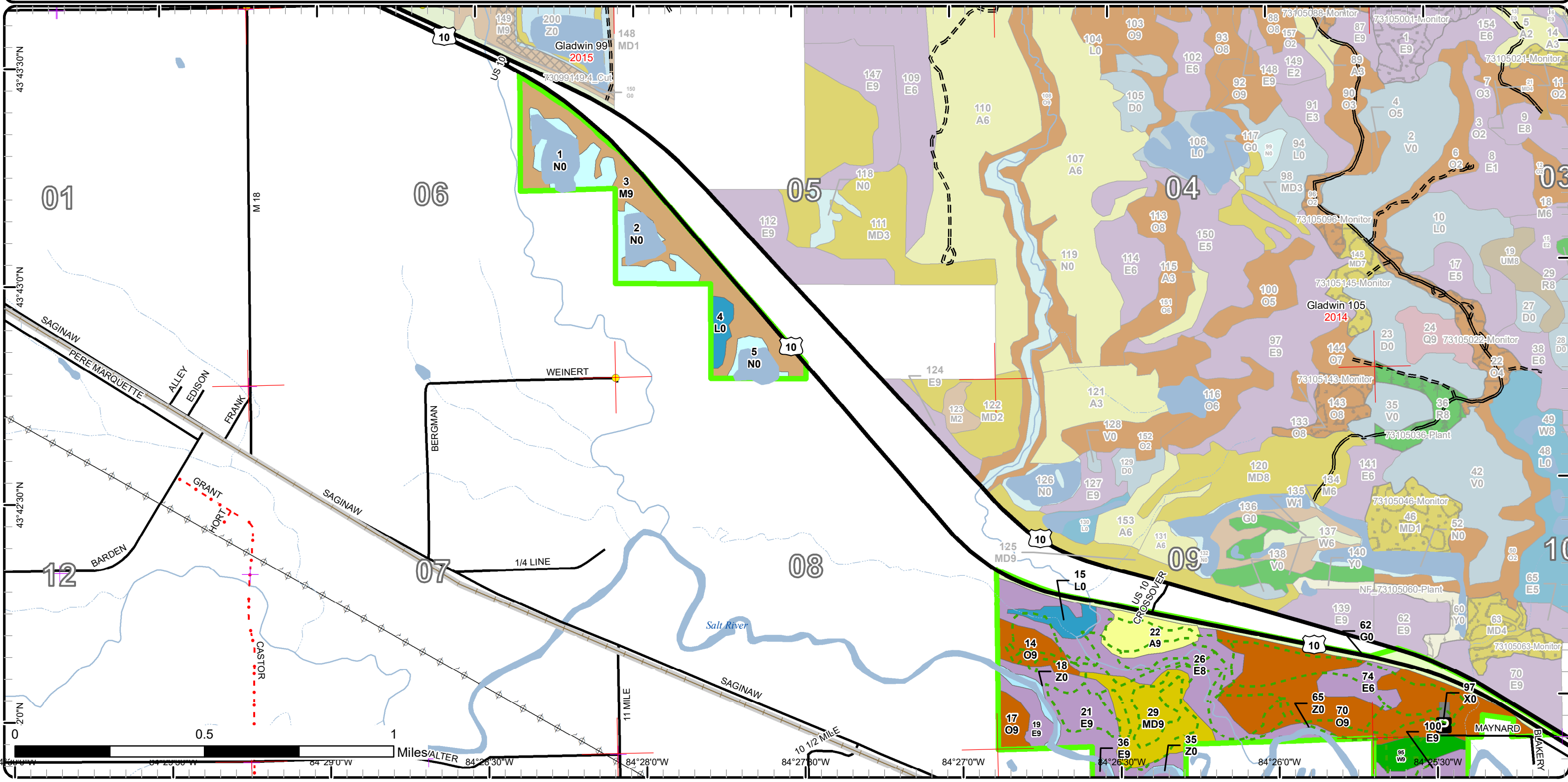
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The following reports from the Inventory are attached:

- 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**

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	21	0	33	145	68	0	0	20	0	0	0	0	0	0	0	0	0	286
Bog	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Herbaceous Openland	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Low-Density Trees	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Lowland Aspen/Balsam Poplar	0	0	0	7	57	0	10	88	0	0	0	0	0	0	0	0	0	0	161
Lowland Conifers	0	0	0	0	0	10	0	19	0	0	0	0	0	0	0	0	0	0	29
Lowland Deciduous	0	15	0	40	93	212	251	167	63	21	136	67	0	0	0	0	0	583	1647
Lowland Shrub	288	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	288
Marsh	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Mixed Upland Deciduous	0	76	11	0	42	58	0	0	0	66	54	0	0	0	0	0	0	83	390
Northern Hardwood	0	0	0	0	0	0	0	0	0	12	13	0	0	0	0	0	0	54	79
Oak	0	0	113	109	14	0	16	17	41	27	218	31	0	0	0	0	0	117	703
Treed Bog	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Upland Mixed Forest	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Urban	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
White Pine	0	0	0	0	0	0	0	16	0	0	10	0	0	0	0	0	0	12	38
Total	586	112	124	189	351	360	277	307	124	126	431	98	0	0	0	0	0	849	3931



Report 2 – Treatment Summary

Gladwin Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 106

Total Compartment Acres: 3,932

Commercial Harvest - 300
 Harvests with Site Condition - 30
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	45	0	0	0	0	0	0	0	0	45
Lowland Aspen/Balsam Poplar	0	0	0	0	21	0	0	0	0	21
Lowland Deciduous	0	32	0	0	0	0	0	0	0	32
Mixed Upland Deciduous	0	21	0	0	30	0	67	0	0	118
Oak	0	9	0	0	90	0	0	0	0	99
White Pine	0	0	0	0	0	16	0	0	0	16
Total	45	63	0	0	141	16	67	0	0	331

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	331	0	0	0	0	0	0	0	0	331
Next Step	0	0	0	0	0	0	293	0	0	293
Total	331	0	0	0	0	0	293	0	0	623



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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Proposed Treatments:

44	73106044-Cut	22.4	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	96	51-80	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Harvest the stand 8" and up. Mark to retain 20 BA of good formed maple, oak, and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any mix of oak/maple/aspen meeting acceptable regeneration levels</p> <p><u>Other Comment:</u> Protect regeneration during harvest. Access is from 10 1/2 Mile Rd.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
51	73106051-Cut	29.6	4199 - Other Mixed Upland Deciduous	Sawtimber Well	89	51-80	Harvest	Shelterwood	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Harvest the stand 4" and up. Retaining 40 BA of good formed oak, maple, and pine. Focus on releasing pole and sapling sized trees as well as creating canopy gaps for future regeneration. Remove wettest portions of the stand from the harvest area.</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> Any mix of oak/maple/aspen meeting minimum stocking levels.</p> <p><u>Other Comment:</u> Protect regeneration. Harvest acres may be significantly different than prescribed acres due to wet soils. Expand the harvest into the northern portion of stand 32. Best access is from 10 1/2 Mile Rd.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
64	73106064-Cut	9.1	4126 - White, Black, N. Pin Oak	Sawtimber Well	91	81-110	Harvest	Group Selection	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Mark the stand down to 70 BA. Focus on creating 100 ft. canopy gaps and releasing pole sized timber of good form.</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> Any mix of oak/maple/aspen/pine that meets minimum stocking levels. Regeneration is expected to take longer than 10 years.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



Standard

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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66	73106066-Cut	15.7	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	60	111-140	Harvest	Crown Thinning	4220 - Natural White Pine	Even-Aged	No
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Prescription Mark the stand down to 100 BA. In some areas, rows will need to be marked to accommodate harvest operations. Protect large diameter white pine.

Next Step
Treatments:

Acceptable
Regen:

Other East end is seasonally wet, harvest dry frozen.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

114	73106114-Cut	32.1	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	94	111-140	Harvest	Group Selection	611 - Lowland Deciduous Forest	Uneven-Aged	No
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Prescription Re-mark the stand. Freshen up paint. Mark additional trees on upland Knolls to create 50 -100 ft canopy gaps. Mark additional trees throughout the stand to ensure it is harvestable. Target BA is 70.

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

Acceptable Pockets of maple/oak regeneration ranging from low to medium density. Will take more than 10 years to establish.
Regen:

Other Stand was marked down to 68 BA last inventory cycle. Adjust sale boundary to exclude stand 202 and include area at the corner of Nielson and 11 Mile.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

129	73106129-Cut	21.1	6112 - Lowland Aspen	Sawtimber Well	65	81-110	Harvest	Shelterwood	611 - Lowland Deciduous Forest	Two-Aged	No
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Prescription Harvest oak and maple 10" and up. Harvest all aspen and birch. Mark to leave 20 BA of log sized oak & maple. Apply oak wilt restrictions.
Specs: Protect advanced regeneration 4" and under. Harvest dry/frozen.

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

Acceptable Any mix of aspen/maple/oak/birch that meets minimum stocking levels. Aspen regeneration failure expected.
Regen:

Other Lowland crossings required. Remove wettest areas and areas with dense advanced regeneration from harvest boundary where practical.
Comment: Actual acres may vary significantly from proposed acres.

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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154	73106154-Cut	13.9	4131 - Aspen, Oak	Poletimber Poor	48	1-50	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Two-Aged	No
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Prescription Harvest 2" and up except for oak. Protect oak saplings that are 4 to 2 inch. Apply Gladwin Grouse Specifications. Harvest dry/frozen to
Specs: protect aspen root structure.

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

Acceptable Moderate to poorly stocked aspen/maple regeneration combined with residual oak.
Regen:

Other Expand the harvest into the northern portion of stand 155. Best access is to skid wood south along Castor Rd to 182 landing. Can also
Comment: install a temporary drive at Castor Rd.

Site Condition

Proposed Start Date: 10/1 /2022

168	73106168-Cut	12.4	4130 - Aspen	Poletimber Well	32	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest 2" and up during dry/frozen conditions. Place retention area(s) along north edge of the stand. Apply Gladwin Grouse Specifications.
Specs:

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

Acceptable Fully to moderately stocked aspen mixed with other hardwoods.
Regen:

Other Access driveway at Nielson was washed out during inventory. Early harvest of aspen to increase contiguous cut area. This will increase
Comment: marketability of the aspen and help with deer browse concerns.

Site Condition

Proposed Start Date: 10/1 /2022

182	73106182-Cut	18.7	4131 - Aspen, Oak	Poletimber Medium	48	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest 2" and up during dry/frozen conditions. Place retention area(s) along north edge of the stand where site quality is lowest. Apply
Specs: Gladwin Grouse Specifications.

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

Acceptable Fully to moderately stocked aspen stand with mixed hardwood.
Regen:

Other Access to the stand is from the SW in stand 168. Culvert was washed out at time of harvest.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

213	73106213-Cut	18.2	4125 - Black, N. Pin Oak	Sawtimber Medium	89	51-80	Harvest	Shelterwood	412 - Oak Types	Even-Aged	No
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Prescription Harvest oak and maple 10" and up. Harvest all aspen and birch. Mark to leave 20 BA of oak. Apply oak wilt restrictions. Protect advanced
Specs: regeneration 4" and under. Harvest dry/frozen.

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

Acceptable Any mix of oak/maple/aspen that meets minimum stocking levels.
Regen:

Other Remove wettest areas from treatment. Actual acres may vary significantly from proposed acres.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	214 73106214-Cut	23.2	4125 - Black, N. Pin Oak	Sawtimber Medium	94	1-50	Harvest	Shelterwood	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> Harvest oak and maple 10" and up. Remove all aspen and birch. Mark to leave 20 BA of log sized oak. Dry/frozen harvest only. Apply oak wilt restrictions. Protect regeneration 4" and under.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of oak/aspens/maple/birch that meets minimum stocking levels.</p> <p><u>Regen:</u></p> <p><u>Other</u> New road building required. Three small ditch crossings required. Crane mats will work or temporary culvert. No DEGLE permit required; ditches equalize adjacent wetlands. Actual acres may vary significantly from proposed acres.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
	217 73106217-Cut	39.4	4125 - Black, N. Pin Oak	Sawtimber Poor	94	1-50	Harvest	Shelterwood	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> Harvest oak and maple 10" and up. Harvest all aspen and birch. Mark to leave 20 BA of log sized oak. Apply oak wilt restrictions. Protect advanced regeneration 4" and under. Harvest dry/frozen.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of oak/maple/birch/aspens meeting minimum regeneration standards.</p> <p><u>Regen:</u></p> <p><u>Other</u> Lowland crossings required. Remove wettest areas and areas with dense advanced regeneration from harvest boundary where practical.</p> <p><u>Comment:</u> Actual acres may vary significantly from proposed acres.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
	218 73106218-Cut	44.4	4199 - Other Mixed Upland Deciduous	Poletimber Well	84	51-80	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Harvest oak and maple 10" and up. Harvest all aspen and birch. Apply oak wilt restrictions. Protect advanced regeneration 4" and under. Harvest dry/frozen.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of oak/maple/aspens that meets minimum stocking levels.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mark one log sized white oak per acre to leave. Remove wettest areas from treatment boundary. Actual acres may vary significantly from proposed acres.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
	220 73106220-Cut	9.0	4125 - Black, N. Pin Oak	Sawtimber Well	84	51-80	Harvest	Shelterwood	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> Harvest 4" and up. Mark to leave 40 BA of oak and maple. Harvest dry/frozen. Apply oak wilt restrictions.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of oak/maple/aspens meeting minimum stocking levels.</p> <p><u>Regen:</u></p> <p><u>Other</u> Private land access is the best option. Crossing stand 219 at narrowest location during dry/frozen conditions is also possible. Actual harvest acres may vary significantly from proposed acres.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
230 73106230-Cut	21.4	4199 - Other Mixed Upland Deciduous	Sawtimber Well	84	81-110	Harvest	Group Selection	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Harvest all aspen. Mark to cut other operational trees as necessary to provide access. Average residual BA should be 70 sq ft.</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> Scattered aspen/oak/maple regeneration pockets of various sizes.</p> <p><u>Other Comment:</u> Private land access is the best option. Crossing stand 219 at narrowest location during dry/frozen conditions is also possible. Actual harvest acres may vary significantly from proposed acres.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 330.6

Report 4 – Site Conditions

Gladwin Mgt. Unit
Scott Shooltz : Examiner

Compartment: 106
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions										
		With Condition				2B	2D	2I	5B	5C	2A	2G	2H	3D	3G	5E
287	234	6		47	Aspen	6						0		14	33	
53	53	0		0	Bog											
67	63	0		3	Herbaceous Openland									0	3	
33	33	0		0	Low-Density Trees											
162	85	0		78	Lowland Aspen/Balsam Poplar							78				
29	9	0		19	Lowland Conifers							19				
1646	670	55		920	Lowland Deciduous				45	10		773		139	6	2
288	288	0		0	Lowland Shrub											
72	72	0		0	Marsh											
391	286	65		40	Mixed Upland Deciduous	21	26	6	11				9	31		
79	0	25		54	Northern Hardwood	12			13		54					
703	355	214		134	Oak	9	17		188			0		117	17	
36	36	0		0	Treed Bog											
12	12	0		0	Upland Mixed Forest											
5	5	0		0	Upland Shrub											
20	20	0		0	Urban											
10	10	0		0	Water											
38	28	0		10	White Pine									10		
3,931	2,261	365		1,305	Total Forested Acres	49	43	6	257	10	54	870	9	311	59	2
	58%	9%		33%	Relative Percent											

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz : Examiner

Compartment: 106
 Year of Entry: 2023

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3D: Recreational / Scenic values	305	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	109	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5B: Maintain for regeneration purposes	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	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: 106
 Year of Entry: 2023

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5B: Maintain for regeneration purposes	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz : Examiner

Compartment: 106
 Year of Entry: 2023

14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	2B: Unknown if access through adjacent landowner(s) is possible	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Active beaver flooding in the east end.							
17	Available	2B: Unknown if access through adjacent landowner(s) is possible	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz : Examiner

Compartment: 106
 Year of Entry: 2023

20	Available	2I: Survey needed	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz : Examiner

Compartment: 106
 Year of Entry: 2023

26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz : Examiner

Compartment: 106
 Year of Entry: 2023

32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	3G: Other Influence zones - See comments	59	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand will be placed into public auction August 2021. Stands within this area were prescribed and sold under a timber sale contract during the last YOE. Contract was not completed.							
37	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: 106
 Year of Entry: 2023

38	Unavailable	3D: Recreational / Scenic values	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	2A: Adjacent landowner denied access	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
43	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz : Examiner

Compartment: 106
 Year of Entry: 2023

44	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Available	5B: Maintain for regeneration purposes	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
48	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
49	Available	2B: Unknown if access through adjacent landowner(s) is possible	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz : Examiner

Compartment: 106
 Year of Entry: 2023

50	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
52	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
53	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
54	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
55	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Scott Shooltz : Examiner

Compartment: 106
Year of Entry: 2023

56	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
57	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
58	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
Comments:							
59	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Access is difficult. Large culvert install at Nielson then a 200 ft composite mat crossing over a wetland or two bridge installs and miles of road work from the west.							
60	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Large culvert install required at Nielson Rd. May need a DEGLE permit.							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz : Examiner

Compartment: 106
 Year of Entry: 2023

61	Available	5B: Maintain for regeneration purposes	46	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Regeneration has a high risk of failure in this stand. Canopy is currently between 50% and 75% and regeneration is minimal. Carry the canopy until regeneration can be obtained.</p>							
62	Available	5B: Maintain for regeneration purposes	10	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
<p>Comments: Scattered regeneration under a very open canopy. Let the stand succeed naturally. Large culvert or portable bridge needed at Neilson Rd. Portable bridge needed to cross drainage from the south. Crane mats may work for southern drain.</p>							
63	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	26	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Large culvert or portable bridge needed at Neilson Rd.</p>							
64	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
65	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

Report 4 – Site Conditions

Gladwin Mgt. Unit
 Scott Shooltz : Examiner

Compartment: 106
 Year of Entry: 2023

66	Available	2B: Unknown if access through adjacent landowner(s) is possible	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
67	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
68	Available	5B: Maintain for regeneration purposes	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
69	Available	5B: Maintain for regeneration purposes	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
Pine Haven Recreation Area	Concentrated Recreation Area	Rail-Trail Corridor	Error	331
Comments				
Pine Haven Recreation Area is under 10 - year lease to Midland County to be used as a non-motorized recreation area. That lease will expire March 2021 but is expected to be renewed by Midland County.				
Pine Haven Recreation Area	Contiguous Resource Area	Contiguous Resource Area	Error	331
Comments				
Pine Haven Recreation Area is under 10 - year lease to Midland County to be used as a non-motorized recreation area. That lease will expire March 2021 but is expected to be renewed by Midland County.				

Mgt. Unit

Compartment:

Year of Entry



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
1	6239 - Mixed Emergent Wetland	Nonstocked	17.7			No	2023 YOE Comments: Remote called due to lack of access. Listed as edge call to preserve data. The stand is heavy to cattails and marsh grass. There is an area of open water, for the stand is an old barrow pit.																																																				
2	6239 - Mixed Emergent Wetland	Nonstocked	15.2			No	2023 YOE Comments: Remote called due to lack of access. Listed as edge call to preserve data. The stand is an old barrow pit that is now heavy to cattails with some shrubs. There is some open water present in the stand.																																																				
3	4119 - Mixed Northern Hardwoods	Sawtimber Well	54.2	96	81-110	N/A	2023 YOE Comments: Remote called due to lack of access. Listed as edge call to preserve data. The stand is land locked by private land and US-10. The terrain is undulating. It is a matrix of uplands and lowlands with the uplands being the majority. The stand surrounds old barrow pits.																																																				
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4	629 - Mixed non-forested wetland	Nonstocked	5.6			No	2023 YOE Comments: Remote called due to lack of access. Listed as edge call to preserve data. The stand is an old barrow pit. It is now filled in with cattails and lowland shrubs.																																																				
5	6239 - Mixed Emergent Wetland	Nonstocked	7.1			No	2023 YOE Comments: Remote called due to lack of access. Listed as edge call to preserve data. The stand is an old barrow pit. It is filling in with cattails and some lowland shrubs. There is some open water in the stand.																																																				
6	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	52.7	54	51-80	N/A	Topography goes from low swale to upland ridge. Low areas go from wet to very wet, however, most of the stand is harvestable. Several man made ditches bisect the stand. Stand was harvested in the late 1960's. It appears trees 4 inches and up were harvested in addition scattered larger diameter trees were also left. Aspen is scattered throughout the stand with highest concentrations at the north end.																																																				
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7	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	22.9	56	1-50	N/A	Oak ridge. Overstory beginning to die off. Some oak reproduction. Manage for the understory. Heavy highbush blueberry cover is prohibiting oak regen. L/N type scattered throughout: would make operability difficult. Would not recommend planting due to access. Needs burning to regen oak.																																																				
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8	4126 - White, Black, N. Pin Oak	Sawtimber Medium	10.0	94	1-50	N/A	Oak ridge. Overstory beginning to die off. Some oak reproduction. Poor access. Manage for the understory. Slight mortality. Heavy highbush blueberry cover is prohibiting oak regen. L/N type scattered throughout: would make operability difficult. Would not recommend planting due to access. Needs burning to regen oak.																																								
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9	6119 - Mixed Lowland Deciduous Forest	Sawtimber Poor	11.7	94	1-50	N/A	The stand is moving towards non-forested. Ash has fallen out of the stand. Understory is lowland brush.																																								
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10	6113 - Lowland Maple	Poletimber Well	5.8	91	51-80	N/A	The stand is a matrix of uplands and lowlands with the lowlands being the majority. The over story is declining especially the oaks. It is a little lower than the surrounding stands making it wetter. However, it looks like it may dry out in late summer. Parcel will be up for auction in August of 2021.																																								
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11	4126 - White, Black, N. Pin Oak	Poletimber Well	17.2	91	1-50	N/A	2022 YOE Comments: Stand was not harvested under Castor 11 Select. Stand was sold under a timber sale contract last YOE but was never cut. Parcel will be up for auction in August of 2021. The stand is variable going from well stocked to poorly stocked. There are inclusions of G-types in the stand.																																								
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12	6112 - Lowland Aspen	Sawtimber Well	10.3	54	51-80	N/A	Low areas go from wet to very wet. Man made ditch bisects the stand. Stand was harvested in the late 1960's. It appears trees 4 inches and up were harvested in addition scattered larger diameter trees were also left. Aspen is scattered throughout the stand with highest concentrations at the north end. Aspen is falling out of the stand.																																								
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13	3102 - Grass	Nonstocked	3.3			No	This stand has the Teed Drain running through it. It's bordered on the north side by a road and a grass stand. The sides of the banks along the drain are also grassy. Parcel will be up for auction in August of 2021.																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
14	4124 - Red with White Oak	Sawtimber Well	10.9	93	81-110	N/A	The over story aspen and oak are declining. There is significant gap dynamics occurring in the stand. These gaps are regenerating well to maple with some oak and ash as well.																																																		
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15	629 - Mixed non-forested wetland	Nonstocked	7.2			No	This looks to be an old beaver flooding that has drained. It is mainly cattails and marsh grass. The east end of it is full of willow brush.																																																		
16	4131 - Aspen, Oak	Poletimber Well	32.5	47	1-50	N/A	The terrain is hummocky to undulating. As such it is a matrix of uplands and lowlands with the lowlands being about 40%. The dryer ridges are heavy to oak and bigtooth aspen. The lower areas are heavy to red maple, oak, ash, and quaking aspen. Parcel will be up for auction in August of 2021.																																																		
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17	4121 - Oak, Aspen	Sawtimber Well	6.8	96	111-140	N/A	From the aerial imagery, soil types, and the age of the stand, this stand should be very similar to pre-inventory stand 28.																																																		
18	500 - Water	Nonstocked	4.2			No																																																			
19	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	6.8	100	81-110	N/A	This stand is on the flood plain of the Big Salt River																																																		
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20	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	6.1	91	111-140	N/A	The stand has some indications that it is wet in the spring. However, it looks like it dries out in late summer. Highly visible lowland stand. Leave stand as a buffer.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21 6119 - Mixed Lowland Deciduous Forest Sawtimber Well 29.8 100 111-140 N/A The stand is on the flood plain of the Big Salt River. The over story in the stand shows signs of declining and is starting to come down. Much of what is coming down is ash, aspen, and oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Log/Pole/XLog	16	100	Deciduous Saplings	Low	Variable	Sapling
Basswood	20	Log/Pole	12		Deciduous Shrubs	Low	Variable	Tall Shrub
White Oak	7	Log/Pole	13					
Cottonwood	13	XLog	24					
Swamp White Oak	10	Log/XLog	17					

22 4139 - Aspen, Mixed Deciduous Sawtimber Well 14.1 74 81-110 N/A This is a knoll that is isolated by the Mud and Bluff Creeks.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Log/Pole	12	74	Deciduous Saplings	Medium	Variable	Sapling
Red Oak	10	Log	14		Deciduous Shrubs	High	Variable	Tall Shrub
White Oak	5	Log	14					
Bigtooth Aspen	50	Log	12	74				
Red Pine	10	Log	14					

23 6113 - Lowland Maple Poletimber Well 19.8 56 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	60	Pole/Sap/Log	8	56	Red Maple	High	>20 feet	Sapling
Northern Pin Oak	25	Pole/Sap/Log	8	56				
Swamp White Oak	15	Pole/Sap/Log	8	56				

24 4199 - Other Mixed Upland Deciduous Sapling Well 11.4 11 1-50 N/A The stand was harvested in 2010. Stand has fully regenerated.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	10	Log/XLog	14	91
White Oak	10	Log/XLog	14	91
White Pine	15	Pole	6	
White Oak	10	Sapling	1	11
Red Maple	20	Sapling	2	
Bigtooth Aspen	25	Sapling	1	11
Black/Red (Hybrid) Oak	10	Sapling	1	11

25 4131 - Aspen, Oak Poletimber Well 9.6 33 1-50 N/A Harvested under contract 73-062-85-01, The Long Goodbye in 1987. Clear-cut 4" and up. The stand is an upland ridge that has some areas that are well stocked and other areas that are sparse. The aspen and the oak are fairly evenly mixed. There are inclusions of lowland in the stand but it makes up less than 15% of the area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	3	33	Common Blackberry	Low	< 5 feet	Tall Shrub
Paper Birch	10	Sapling/Pole	4					
Quaking Aspen	15	Pole/Sapling	5					
Bigtooth Aspen	30	Pole/Sapling	5	33				
Black/Red (Hybrid) Oak	35	Pole/Sapling	5	33				
Choke Cherry	5	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
26	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	48.8	89	51-80	N/A	The stand is on the flood plain of Mud Creek. There are inclusions of L-type that are heavy to red osier dogwood. Steep bluffs boarder the flood plain.																																															
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27	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	15.9	50	51-80	N/A	The stand is mainly lowland with inclusions of upland. The super-canopy is declining, especially the oaks. There is a thick canopy of red maple, oaks, and ash pole/saplings. The amount of downed woody material is significant. There is also a significant shrub layer.																																															
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28	6229 - Mixed lowland shrub	Nonstocked	10.5		Immature	No	Harvested under contract 73-062-85-01, The Long Goodbye in 1987. Clear-cut 4" and up. This area is low and wet. It has a thick layer of deciduous shrubs. The stand has some medium stocked pockets of trees, but much of it only has scattered trees. There are also inclusions of upland but they make up less than 20% of the stand.																																															
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29	4199 - Other Mixed Upland Deciduous	Sawtimber Well	31.3	93	81-110	N/A	The stand is developing good gap dynamics. The gaps have good advanced regeneration in them of maple and oak. Stand has succeeded past an Aspen type and is now mixed deciduous.																																															
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30	6229 - Mixed lowland shrub	Nonstocked	1.5			No	This stand is mainly lowland shrubs with some leather leaf present. The edges have some oaks.																																															
31	629 - Mixed non-forested wetland	Nonstocked	11.4			No																																																
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32	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	22.9	96	81-110	N/A	The stand is a matrix of uplands and lowlands, with the lowlands being the majority (60%). The over story is declining in areas and has started coming down. Pole sized red maple are succeeding. Allow the stand to progress naturally.																																										
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33	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	17.2	34	1-50	N/A	The stand is low and wet with some seedling and sapling in it. Currently the trees are in patches. There are areas of high stocking and other areas that are open. The north end of the stand is dryer then the south end.																																										
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34	6229 - Mixed lowland shrub	Nonstocked	2.3			No	The stand is mainly lowland shrubs with the scattered red maple and oak. In 10 years the crown closure maybe > 25%, currently it is a little below 15%.																																										
35	500 - Water	Nonstocked	4.9			No																																											
36	6110 - Cottonwood	Sawtimber Well	6.9	109	81-110	N/A	This stand is on the flood plain of the Big Salt River. It is very heavy to oversized cottonwood logs. They're a few log size maples scattered around the stand.																																										
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37	6229 - Mixed lowland shrub	Nonstocked	7.0			No	This is a tag alder stand that has oak saplings around the edges.																																										
38	4131 - Aspen, Oak	Sapling Medium	25.1	25	1-50	N/A	Harvested in 1996 under contract 73-026-93-01, Castor Road Passage. All trees were cut 2" and up except oak trees less than six (6) inches.																																										
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39	4126 - White, Black, N. Pin Oak	Sawtimber Medium	9.1	90	1-50	N/A	The stand has become a natural seed tree/shelter wood. Over story is declining and coming down. There is a decent amount of oaks seeded into the stand, though at the current time, the regeneration is patchy																																																										
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40	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	5.5	55	51-80	N/A	Small clear-cut are along private boundary. Canopy closure is around 75%. East end of the stand is contains more lowland brush than along Magruder Rd.																																																										
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41	6225 - Bog	Nonstocked	2.9			No																																																											
42	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	25.4	71	51-80	N/A	The stand is low and wet with inclusions of uplands. The uplands make up about 20%. The overstory oaks are declining. The overstory oak, aspen, and ash have been dying out of the stand for decades. Understory saplings, being mainly red maple mixed with ash and oak, readily fill in canopy gaps. Former understory saplings are now pole sized and make up a majority of the canopy. Allow this process to continue.																																																										
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43	6225 - Bog	Nonstocked	4.9			No	This stand has a lot of leatherleaf mixed with sedges. There is a lot of lowland shrub along the east edge of the stand as it grades into pre-inventory stand 48.																																																										
44	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	22.4	96	51-80	N/A	The stand was harvested 27 years ago. Currently there is a well stocked layer of advance regeneration. There are also some areas that are open. Regeneration would benefit from being released.																																																										
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45	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	45.1	90	51-80	N/A	The stand is variable and it is a matrix of upland and lowland. The lowland in the stand is the majority. Some areas appear to be very wet while others look like they dry up in late summer. The upland in the stand is heavy to oak. All the over story trees in the stand are declining regardless of species. Harvested under contract # 73-015-13-01, Teed Mix in July of 2017. The stand was a heavy shelter-wood retaining 60 BA of favoring the retention of oak and the removal of ash and multiple stemmed maple. Regeneration is minimal at this time. Expected to increase over the next 10+ years.																																														
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46	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	11.3	70	111-140	N/A	Un-evenaged stand, 130/70/35 years. Primary age component is 70 years which is most represented by aspen and log/pole oak. 130 year age class is represented by XL red oak, white oak, & white pine. 35 year age class is canopy and sub-canopy white pine. Stand is converting to a white pine stand with an oak component.																																														
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47	6220 - Alder/willow	Nonstocked	23.6			No	The stand has some trees but it is mostly open. The trees are concentrated along the road and along stand 53.																																														
48	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	109.2	91	51-80	N/A	The stand is a matrix of upland and lowland with the upland being about 30%. The oak in the stand is declining. This decline is most noticeable on the upland. Some of the low areas have heavy tree fall but regeneration is filling in.																																														
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49	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	20.1	30	51-80	N/A	The stand is a matrix of uplands and lowlands, with the lowlands being about 75%. The terrain is made up of slight ridges and draws. Most of the ridges are less than 1 chain wide.																																														
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50	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	27.2	55	81-110	N/A	The stand is a matrix of upland and lowland with the lowland being about 60%. The stand appears to dry out in late summer. The overstory oak, aspen, and ash have been dying out of the stand for decades. Understory saplings, being mainly red maple mixed with ash and oak, readily fill in canopy gaps. Former understory saplings are now pole sized and make up a majority of the canopy. Allow this process to continue.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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51	4199 - Other Mixed Upland Deciduous	Sawtimber Well	24.3	89	51-80	N/A	The stand is a matrix of uplands and lowlands with the uplands being about 60%. There are inclusions of L-types. These inclusions are less than a half acre in size. The over story is declining, especially the oaks. Oak and maple saplings are readily filling canopy gaps.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		45	Pole/Log/Sap	9	89	Red Maple		Medium	Variable	Sapling	
Black/Red (Hybrid) Oak		25	Log/Pole/XLog	13		Tag Alder		Low	5 - 10 feet	Tall Shrub	
White Oak		8	Log/Pole/XLog	12		Huckleberry		Low	< 5 feet	Tall Shrub	
Paper Birch		4	Pole/Sapling	5		Witch Hazel		Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		10	Log/Pole	10		Serviceberry (Juneberry)		Low	5 - 10 feet	Tall Shrub	
Swamp White Oak		5	Log/Pole/XLog	12		Black/Red (Hybrid) Oak		Medium	Variable	Sapling	
White Pine		3	Log/Pole	10		White Pine		Low	Variable	Sapling	

52	6113 - Lowland Maple	Poletimber Well	9.5	61	51-80	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		65	Pole/Sapling	7	61	Deciduous Shrubs		Full	5 - 10 feet	Tall Shrub	
Northern Pin Oak		25	Pole/Sapling	7	61						
Paper Birch		10	Pole/Sapling	6							

53	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	5.5	60	81-110	N/A	This stand is in a slight depression. The western portion of the stand is dryer and heavier to white pine and oaks. The eastern portion of the stand is wetter and is heavier to green ash and red maple.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		58	Pole/Sapling	7	60	Red Maple		Medium	Variable	Sapling	
White Oak		15	Log/XLog/Pole	12	96	White Pine		Medium	Variable	Sapling	
White Pine		25	Log/Pole/XLog	12	60	Deciduous Shrubs		Medium	Variable	Tall Shrub	
Red Oak		2	Pole/Sapling	7		Ash (spp.)		Medium	Variable	Sapling	
						Oak (spp.)		Medium	Variable	Sapling	

54	4126 - White, Black, N. Pin Oak	Sawtimber Poor	30.7	109	1-50	N/A	The stand is a matrix of uplands and lowlands, with the uplands being about 75%. Seed tree harvested in November of 2016 under contract # 73-017-13-01, Power Hum Select. Residual BA was 16 sq. ft. Canopy oak was declining pre-harvest. Regeneration is borderline failure, made up of scattered oak pockets and red maple stump sprouts. Future stand will be low quality without intervention. Stand was discussed at pre-review (2021). S. Nyhoff said stand was low stocking before it was cut so we agreed it was ok to have a lower stocked stand. Planting red pine looks logistically difficult. Decision made to accept regen as is and terminate plan to plant red pine. [KKA, 2021]				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Log	10		Black/Red (Hybrid) Oak		Low	< 5 feet	Sapling	
Red Oak		20	Log/XLog	15		Red Maple		Medium	5 - 10 feet	Sapling	
White Oak		40	Log/XLog	16	109	Witch Hazel		Medium	5 - 10 feet	Tall Shrub	
Black/Red (Hybrid) Oak		30	Log/XLog	15							

55	3302 - Low Density Conifer Trees	Nonstocked	3.8			No	The stand is open with heavy blueberry and other deciduous shrubs. There is also a component of grass.	
Sub-Canopy Species		Density	Avg. Height	Size				
Blueberry/Bilberry/Cranberry		High		Tall Shrub				
White Pine		Medium		Sapling				
Sweet Fern		High		Tall Shrub				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
56	4124 - Red with White Oak	Sawtimber Well	26.2	96	111-140	N/A	This stand is a matrix of uplands and lowlands, with the uplands being about 80%. The stand is mainly on a ridge. However, there are some draws running through it.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		25	Log/Pole	12		Red Maple		High	Variable	Sapling
Red Oak		40	Log/Pole/XLog	14	96	White Pine		Medium	Variable	Sapling
White Oak		20	Log/Pole/XLog	14		Deciduous Shrubs		Low	Variable	Tall Shrub
Bigtooth Aspen		10	Log	14		Oak (spp.)		Medium	Variable	Sapling
White Pine		5	Pole/Sap/Log	7						
57	4126 - White, Black, N. Pin Oak	Sawtimber Medium	34.5	94	1-50	N/A	The stand is on a ridge. The over story oaks are declining. When the dead oak falls down, it is being collected by the private land owner to the north. The stand has a network of lightly used ORV trails in it that look to be used for removing the downed wood. Stand was setup for harvest during the last planning cycle. Good crop of natural regeneration moving towards pole size.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		15	Pole/Sap/Log	8		Witch Hazel		Low	5 - 10 feet	Tall Shrub
White Oak		20	Log	12		Serviceberry (Juneberry)		Low	Variable	Tall Shrub
Black/Red (Hybrid) Oak		65	Log/Pole	11	94	Black/Red (Hybrid) Oak		Medium	10 - 20 feet	Sapling
						White Oak	Low	10 - 20 feet	Sapling	
58	4126 - White, Black, N. Pin Oak	Sawtimber Medium	12.6	95	1-50	N/A	New stand added. Over story is declining especially oak. Much of the over story is down. This has made the stand look like a seed tree/shelter wood harvest. It has good advanced regeneration. Less BA and smaller understory than adjacent stand. Also more low ground.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		20	Pole/Log/Sap	7		Deciduous Shrubs		Medium	Variable	Tall Shrub
White Oak		40	Log	15	95	Witch Hazel		Medium	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak		30	Log	14	95	White Oak		Medium	10 - 20 feet	Sapling
White Pine		10	Pole/Log/Sap	8		Black/Red (Hybrid) Oak	Medium	10 - 20 feet	Sapling	
59	6220 - Alder/willow	Nonstocked	4.3			No				
60	6127 - Lowland Pine	Poletimber Well	13.5	69	141-170	N/A	The stand is thick with white pine poles with pockets of large diameter white pine and other trees along the south edge.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		11	Pole/Sap/Log	8		White Pine		Full	Variable	Sapling
White Oak		10	Pole/Sap/Log	9						
Bigtooth Aspen		5	Pole	5						
Black/Red (Hybrid) Oak		14	Pole/Sap/Log	8						
White Pine		60	Pole/Sap/Log	8	69					
61	42200 - Natural White Pine	Poletimber Well	12.2	60	51-80	N/A	The stand is variable going from open to fully stocked poles to oversized white pine logs.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Pole/Sap/Log	8		White Pine		Medium	Variable	Sapling
White Oak		2	Log/Pole	12		Huckleberry		High	< 5 feet	Tall Shrub
Bigtooth Aspen		2	Pole	7						
Black/Red (Hybrid) Oak		4	Log/Pole/Sap	10						
White Pine		80	Pole/Sap/Log	8	60					
Red Pine		2	Log	12						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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62	3105 - Mixed Upland Herbaceous	Nonstocked	20.7				This is the ROW for US-10. This is mostly grassy but the road is paved and is in the stand. There are some lower areas in it were the lowlands touch the stand.
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63	6224 - Treed Bog	Nonstocked	13.1			No																	
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Leatherleaf	Full	< 5 feet	Tall Shrub																				
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Paper Birch	Low	10 - 20 feet	Sapling																				

64	4126 - White, Black, N. Pin Oak	Sawtimber Well	9.1	91	81-110	N/A	Medium to high quality oak with scattered pine/hemlock/aspens. Canopy gaps are filling in with pole sized maple.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	8		Red Maple	Low	Variable	Sapling
Red Oak	30	Log	13	91	White Pine	Low	Variable	Sapling
White Oak	30	Log/Pole	13		Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	5	Log	10		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	20	Log/Pole	10	91				
Hemlock	2	Log	12					
White Pine	3	XLog/Log	18					

65	500 - Water	Nonstocked	1.3			No	
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66	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	15.8	60	111-140	N/A	White pine stand. Deciduous species in the stand are slightly older. Upland stand with lowland pockets. East end is lowest in elevation, dries out in the summer.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	8	70	White Pine	Low	Variable	Sapling
White Oak	5	Log	14		Huckleberry	High	< 5 feet	Tall Shrub
Quaking Aspen	5	Log/Pole	10					
Black/Red (Hybrid) Oak	20	Pole/Log/Sap	9	70				
White Pine	60	Pole/Sap/Log	9	60				

67	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	39.9	40	1-50	N/A	The stand is variable going from aspen/maple along the road to maple/ash/oak along the western edge of the stand. There are inclusions of L-type in the stand but they are less than 1 acre in size.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Sapling/Pole	4	40	Red Maple	Medium	Variable	Sapling
White Oak	10	Sapling/Pole	3		Deciduous Shrubs	High	Variable	Tall Shrub
Quaking Aspen	10	Pole/Sapling	5		Musclewood/Hornbeam	Low	Variable	Sapling
Black/Red (Hybrid) Oak	15	Pole/Sap/Log	6		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Swamp White Oak	25	Pole/Sap/Log	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
68	4119 - Mixed Northern Hardwoods	Sawtimber Medium	12.8	94	51-80	N/A	The stand was harvested by selection removing 50 BA. The residual that was left, after harvest, was around 70 BA. During the harvest there was significant damage to the residual but it was acceptable. Also there were small areas that were heavily rutted. The stand was harvested in 2010. White pine is seeding in.																																																								
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69	6225 - Bog	Nonstocked	13.7		Immature	No																																																									
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70	4124 - Red with White Oak	Sawtimber Well	73.0	101	111-140	N/A	The stand is undulating and is a matrix of uplands and lowlands. The uplands are about 75% of the stand. There are many over sized log trees. Also, there is signs of decline in the over story and significant down woody material. Under-story is dominated by white pine.																																																								
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71	4126 - White, Black, N. Pin Oak	Sawtimber Well	11.5	95	51-80	N/A	The over story is declining. However, the stand has an under story of poles. The eastern portion of the stand has more aspen and white pines. The western portion of the stand is heavier to oak.																																																								
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72	6229 - Mixed lowland shrub	Nonstocked	7.9			No	The stand is mainly lowland shrubs. There are inclusions of trees especially along the edges and the paper birch is scattered throughout the stand.																																																								
73	4131 - Aspen, Oak	Poletimber Well	32.7	33	1-50	N/A	Harvested under contract 73-062-85-01, The Long Goodbye in 1987. Clear-cut 4" and up. This area is upland and the regeneration is good. The stand is a mixture of oak and aspen mainly. There are some small patches of lowland in the stand.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
74	6113 - Lowland Maple	Poletimber Well	11.0	60	51-80	N/A	This stand is in a slight depression. There are large over story oaks and maples. Primary stand is pole size maple and oak over a thick understory of maple, ash, and deciduous shrubs.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		75	Pole/Sap/Log	9	60	Beech		Low	Variable	Sapling
Black/Red (Hybrid) Oak		25	Pole/Sap/Log	9	60	Deciduous Shrubs		High	Variable	Tall Shrub
						Red Maple	Medium	10 - 20 feet	Sapling	
75	6113 - Lowland Maple	Sawtimber Well	10.0	96	81-110	N/A	This stand is a matrix of uplands and lowlands, with the lowlands being the majority. The stand has several drainages running through it.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		60	Log/Pole	12	96	White Pine		Low	Variable	Sapling
Red Oak		20	Log/Pole/XLog	12		Deciduous Saplings		Medium	Variable	Sapling
White Oak		15	Log/Pole/XLog	15		Deciduous Shrubs		Medium	Variable	Tall Shrub
White Pine		5	Log/XLog	16						
76	122 - Road/Parking Lot	Nonstocked	19.3				This is the ROW for Saginaw road and the Pere-Marquette rail to trail. This is mostly grassy but the road and the trail are paved. There are some lower areas in the stand. They are located were the lowland stand, to the south, touch this stand. south touch the stand.			
77	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	45.4	90	141-170	N/A	The stand is the flood plain of the Teed Drain. The terrain is rolling to undulating. It is a matrix of upland and lowland with the lowland being the majority.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		41	Log/Pole/XLog	14	90	Red Maple		Medium	Variable	Sapling
Beech		2	Log/Pole	14		Hemlock		Low	Variable	Pole
Red Oak		10	Log/XLog	15		Musclewood/Hornbeam		High	Variable	Sapling
White Oak		10	Log/XLog	16						
Bigtooth Aspen		10	Log/Pole	13						
Black/Red (Hybrid) Oak		5	Log/XLog	15						
White Pine		10	XLog/Log	18						
Hemlock		2	Log	12						
Swamp White Oak		10	Log/XLog/Pole	16						
78	4131 - Aspen, Oak	Poletimber Medium	37.1	33	1-50	N/A		Harvested under contract 73-062-85-01, The Long Goodbye in 1987. Clear-cut 4" and up.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height
Red Maple		18	Pole/Sapling	5		Deciduous Shrubs	Low	5 - 10 feet	Tall Shrub	
Paper Birch		2	Sapling/Pole	4		Common Blackberry	Low	< 5 feet	Tall Shrub	
Bigtooth Aspen		45	Pole	6	33					
Black/Red (Hybrid) Oak		35	Sapling/Pole	4	33					
79	6113 - Lowland Maple	Poletimber Poor	33.5	54	1-50	N/A	Switched stand from non-forested to forested. The stand has some slight ridges in it that has a higher density of tree. These areas are less than 3 acres in size. This stand was cut with surrounding stands but took significantly longer for the canopy to close in. In addition the stand was probably harvested 4 inches and up with scattered larger diameter trees being left as well. Stand is un-evenaged as a result.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		65	Pole/Sap/Log	5	54	Black/Red (Hybrid) Oak		Low	10 - 20 feet	Sapling
Quaking Aspen		10	Log/Pole	10	54	Alder		High	10 - 20 feet	Tall Shrub
Black/Red (Hybrid) Oak		25	Pole/Sap/Log	7		Red Maple	High	10 - 20 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
80	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	13.6	33	Immature	N/A	Harvested under contract 73-062-85-01, The Long Goodbye in 1987. Clear-cut 4" and up.																																												
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81	330 - Low-Density Trees	Nonstocked	18.7	0	Unspecified	4199 - Other Mixed Upland Deciduous	The stand is moist but not overly wet. The aspen in the stand is located in the eastern portion of the stand while the oak is more in the western portion. Harvested under contract # 73-015-13-01, Teed Mix in November of 2016. Stand was clear-cut 2" and up except green marked trees. Sparse oak/aspen/white pine regeneration at this time. Currently fails regeneration standards.																																												
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82	629 - Mixed non-forested wetland	Nonstocked	6.1			No	The stand is heavy to red osier dogwood and marsh grass.																																												
83	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	13.4	67	51-80	N/A	Stand is very wet the oak in the stand is mainly swamp white oak. The ground cover consist of a lot of royal fern and sensitive fern. The mature oak in the stand is declining. Canopy closure is around 75% as a result of ash mortality.																																												
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84	6229 - Mixed lowland shrub	Nonstocked	4.9			Managed Opening	This is a pipeline that is a mixture of upland and lowland. The upland is the majority. The notice on the pipeline markers are for Quicksilver Resources 989-732-0869																																												
85	3105 - Mixed Upland Herbaceous	Nonstocked	3.0			No	This is a pipeline that is mostly upland. The markers on the pipeline are for Michigan Gas Storage Company 517-789-6811																																												
86	4199 - Other Mixed Upland Deciduous	Sapling Poor	61.8	5	1-50	N/A	The stand is mainly upland. It has inclusions of lowlands, with the lowlands being about 20%. Most of the lowlands are in veins through the stand. Seed tree harvested November of 2016 under contract # 73-017-13-01, Power Hum Select. Residual BA was 20 sq. ft. Regeneration is now 5-10 feet tall and covers 25 - 50% of the ground. Best option for this stand is to accept the regeneration as is.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
87	6229 - Mixed lowland shrub	Nonstocked	22.3		Immature	No	The stand has scattered aspen and oak but the crown closure is less than 15%. Stand was most likely harvest with surrounding stands in the late 1960's. Scattered aspen closely resemble the aspen in adjacent stands.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Leatherleaf	High	Variable	Tall Shrub	
								Alder	Medium	10 - 20 feet	Tall Shrub	
								Black/Red (Hybrid) Oak	Low	>20 feet	Pole	
Quaking Aspen	Low	>20 feet	Log									
88	6225 - Bog	Nonstocked	2.9			No						
89	3105 - Mixed Upland Herbaceous	Nonstocked	2.2			No	This stand is an herbaceous opening, heavy to grass with some sweet fern, and blackberries. White pine and oak are slowly filling in the stand.					
90	4130 - Aspen	Poletimber Well	13.5	34	51-80	N/A	2023 YOE Comments: Harvested under contract 73-003-86-01, No Problem. Stand was clear-cut 2" and up. OPIC - FMD: Stand has pachy regeneration but overall the stand is a light A3. There are areas of E as well as L and G					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	70	Pole	6	34
								Red Maple	15	Pole/Sapling	5	34
								Northern Pin Oak	15	Pole/Sapling	5	34
Sub-Canopy Species	Density	Avg. Height	Size									
Northern Pin Oak	Low	10 - 20 feet	Sapling									
Witch Hazel	Medium	5 - 10 feet	Tall Shrub									
91	6114 - Lowland Oak	Poletimber Medium	10.2	60	51-80	N/A	The stand is a fine matrix of upland and lowland with the lowland being about 55%. It appears that the stand does dry out in late summer. The ground cover is heavy to sheep laurel.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	25	Pole/Log	8	
								White Oak	15	Pole/Sap/Log	5	
								Black/Red (Hybrid) Oak	50	Pole/Sap/Log	8	60
White Pine	10	Pole	8									
Sub-Canopy Species	Density	Avg. Height	Size									
Deciduous Shrubs	Medium	Variable	Tall Shrub									
Huckleberry	Medium	< 5 feet	Tall Shrub									
Sheep Laurel	Low	< 5 feet	Tall Shrub									
92	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	8.4	50	1-50	N/A	The stand is lowland with low density hardwood over a significant shrub layer.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	25	Pole/Sapling	6	
								Black/Red (Hybrid) Oak	10	Pole/Sap/Log	7	
								Green Ash	10	Pole/Sapling	5	
Swamp White Oak	55	Pole/Sap/Log	6	50								
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Low	Variable	Sapling									
Deciduous Shrubs	High	5 - 10 feet	Tall Shrub									
Ash (spp.)	Low	Variable	Sapling									
Black/Red (Hybrid) Oak	Low	Variable	Sapling									
Swamp White Oak	Low	Variable	Sapling									
93	4311 - Pine, Aspen Mix	Sawtimber Medium	11.7	48	51-80	N/A	The stand is a fine matrix of upland and lowland, with the upland being the majority. The soils go from droughty to very wet. It also goes from a G-Type to an L-type to a fully stocked pole stand. The white pine in the stand shows signs of weevil activity.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Paper Birch	7	Pole	5	
								Quaking Aspen	30	Log/Pole	10	48
								Cottonwood	8	Log/Pole	10	48
White Pine	55	Log/Pole	10	48								
Sub-Canopy Species	Density	Avg. Height	Size									
Deciduous Shrubs	High	Variable	Tall Shrub									
Tag Alder	Medium	5 - 10 feet	Tall Shrub									
Sweet Fern	Medium	< 5 feet	Tall Shrub									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
94	330 - Low-Density Trees	Nonstocked	4.8	0		4121 - Oak, Aspen	TS #015-99-01. Clear-cut 11/99. Left oak trees less than 4" dbh. This area did not regenerate from the previous harvest and few oaks were left.																																																							
95	42200 - Natural White Pine	Sawtimber Well	9.7	90	51-80	N/A	The stand is variable going from dense sawlog white pines to grass. There is a maintenance structure in the stand. The terrain is rolling with some steep draws in it.																																																							
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96	4131 - Aspen, Oak	Sapling Well	7.7	22	Immature	N/A	TS #015-95-01. Clearcut 11/99. Left oak trees less than 4" dbh. Stand is coming back as an A2O1.																																																							
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97	122 - Road/Parking Lot	Nonstocked	1.6				This is a gravel parking lot and trail head for the Pine Haven Recreational Area.																																																							
98	4199 - Other Mixed Upland Deciduous	Poletimber Medium	6.6	33	1-50	N/A	2023 YOE Comments: Clear-cut under FTP W-73-310 (1988). The oak in the stand is in patches of grass.																																																							
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99	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	74.1	109	51-80	N/A	The stand is a matrix of uplands and lowlands, with the lowlands being about 75%. The terrain is a mixture of ridges and draws. Patch cut in September of 2016 under contract # 73-017-13-01, Power Hum Select. Average BA was reduced to 74 sq. ft. by cutting one 80 ft. regeneration gap per acre and marking skid routes between the gaps. Gaps and skid routes are primarily located on upland ridge portions of the stand. Low wet areas of the stand were avoided where possible. Regeneration gaps have a small amount of oak seedlings which will most likely increase over time. Red maple regeneration is being heavily browsed.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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100 6119 - Mixed Lowland Deciduous Forest Sawtimber Well 14.1 101 111-140 N/A The stand is rolling to undulating. It is on the flood plain of the Big Salt River

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Log	15	101	Deciduous Saplings	Medium	Variable	Sapling
Beech	5	Log	12					
Red Oak	15	XLog/Log	18					
White Oak	10	Log/XLog	17					
Paper Birch	5	Pole	8					
Sycamore	15	XLog/Log	20					

101 4126 - White, Black, N. Pin Oak Poletimber Well 11.5 27 1-50 N/A Harvested in 1996 under contract 73-026-93-01, Castor Road Passage. All trees were cut 2" and up except oak trees less than six (6) inches.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling/Pole	4	27	Deciduous Shrubs	Low	< 5 feet	Tall Shrub
White Oak	20	Pole/Sapling	5					
Bigtooth Aspen	15	Sapling/Pole	4	27				
Black/Red (Hybrid) Oak	45	Pole/Sapling	6	27				

The stand is variable but heavy to oak. There are areas of open land.

102 4126 - White, Black, N. Pin Oak Sapling Medium 39.1 13 1-50 N/A The stand was harvested in 2007. There was some advanced regeneration left after the harvest. Now there is a fair amount of stump sprouts in addition to what was left. The sprouts are a mixture of oaks and maples.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	2		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Maple	15	Log	10					
Black/Red (Hybrid) Oak	25	Sapling	2	13				
Black/Red (Hybrid) Oak	15	Log	14	94				
White Oak	10	Sapling	2	13				
White Oak	15	Log	14					
Paper Birch	5	Sapling	1	13				
Bigtooth Aspen	5	Sapling	2	13				
White Pine	5	Sapling	1					

103 6119 - Mixed Lowland Deciduous Forest Sawtimber Medium 23.3 71 1-50 N/A The stand is low and wet. The overstory oaks are declining. The north end of the stand is close to 25% cover with a dense lowland brush layer. South end has dense maple and oak regeneration.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Pole/Sap/Log	8		Red Maple	High	Variable	Sapling
Black/Red (Hybrid) Oak	25	Log/Pole/XLog	16		Deciduous Shrubs	Full	5 - 10 feet	Tall Shrub
Swamp White Oak	40	Log/Pole/XLog	17	71	Black/Red (Hybrid) Oak	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
104	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	19.4	101	51-80	N/A	The stand is a matrix of lowland and upland with the lowland making up about 85% of the stand. Former ash component is on the ground. Regeneration is maple/pin oak/elm/deciduous brush. North end of stand appears to have been harvested.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		35	Pole/Sap/Log	8	49	Red Maple		Medium	Variable	Sapling
White Oak		5	Log/XLog	15		Green Ash		Low	Variable	Sapling
Quaking Aspen		5	Pole/Log	9	49	Tag Alder		Medium	5 - 10 feet	Tall Shrub
Swamp White Oak		40	Log/Pole/XLog	16	101	Red Osier Dogwood	Low	< 5 feet	Tall Shrub	
105	3301 - Low Density Deciduous Trees	Nonstocked	3.3			No	The stand is on an upland ridge. The over story is declining, especially in the oaks. There is good regeneration of oak and maple happening naturally in the stand.			
Sub-Canopy Species		Density	Avg. Height	Size						
Cherry (spp.)		Low	10 - 20 feet	Sapling						
Blueberry/Bilberry/Cranberry		Full	< 5 feet	Tall Shrub						
Bracken Fern		Full		Non-Wood						
Black/Red (Hybrid) Oak		Low	10 - 20 feet	Sapling						
106	4126 - White, Black, N. Pin Oak	Sawtimber Medium	5.2	91	1-50	N/A	The stand is on an upland ridge. The over story is declining, especially in the oaks. There is good regeneration of oak and maple happening naturally in the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		12	Pole/Log	8		Huckleberry		High	< 5 feet	Tall Shrub
White Oak		25	Log	14		Witch Hazel		Low	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak		60	Log	14	91	Serviceberry (Juneberry)		Low	5 - 10 feet	Tall Shrub
White Pine		3	Pole	8		Red Maple		Low	5 - 10 feet	Sapling
						White Pine		Medium	>20 feet	Sapling
						White Oak		Low	5 - 10 feet	Sapling
						Black/Red (Hybrid) Oak		Low	10 - 20 feet	Sapling
107	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	13.8	5	Immature	N/A	The stand is mainly upland. There are inclusions of lowland in the stand. Therefore, it would be expected to have a significant reduction in acreage when it was harvested. Harvested under contract # 73-015-13-01, Teed Mix in October of 2016. Stand was harvested 4" and up leaving all white pine and green marked trees. Green marked retention trees were mostly large diameter oak and trees with cavities.			
Canopy Species		% Cover	Size Class	DBH	Age					
Black/Red (Hybrid) Oak		40	Sapling	1	5					
Red Maple		25	Sapling	1	5					
White Pine		25	Pole/Log/Sap	8						
108	4199 - Other Mixed Upland Deciduous	Poletimber Well	18.3	33	81-110	N/A	Harvested under contract 73-062-85-01, The Long Goodbye in 1987. Clear-cut 4" and up.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		30	Sapling	4	33	Tag Alder	Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		38	Pole/Sapling	5	33	Witch Hazel	Low	5 - 10 feet	Tall Shrub	
Black/Red (Hybrid) Oak		20	Pole/Sapling	5	33	Serviceberry (Juneberry)	Low	Variable	Tall Shrub	
Black Cherry		2	Sapling/Pole	4		Choke Cherry	Low	Variable	Sapling	
Swamp White Oak		10	Sapling/Pole	4		Sweet Fern	Low	< 5 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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109 6220 - Alder/willow Nonstocked 3.1 No The stand is heavy to tag alder.

110 6113 - Lowland Maple Poletimber Poor 4.2 94 51-80 N/A Lowland hardwood edge excluded from the adjacent timber sale. Non-forested marsh grass center.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	65	Pole/Sap/Log	8	94	Deciduous Shrubs	Medium	5 - 10 feet	Tall Shrub
Paper Birch	10	Pole/Sapling	5					
Black/Red (Hybrid) Oak	20	Log/Pole	10	94				
Swamp White Oak	5	Log/Pole	10					

111 6113 - Lowland Maple Poletimber Medium 7.8 61 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	65	Pole/Sapling	7	61	Deciduous Shrubs	Full	5 - 10 feet	Tall Shrub
Northern Pin Oak	25	Pole/Sapling	7	61				
Paper Birch	10	Pole/Sapling	6					

112 6224 - Treed Bog Nonstocked 18.9 No The stand is mostly leatherleaf with a few pockets of slightly dryer red pine.

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace		Seeding
Oak (spp.)	Trace		Sapling
Red Pine	Medium		Log
Paper Birch	Trace		Sapling
Red Pine	Low		Sapling

113 4126 - White, Black, N. Pin Oak Sapling Medium 23.0 13 1-50 N/A The stand was harvested in 2007 as a seed tree harvest. It has regenerated fairly well with some decent aspen clones coming in. There is also some seed source and stump sprouts oak and maple. The stand is on a ridge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	2	13	Witch Hazel	Low	< 5 feet	Tall Shrub
Black/Red (Hybrid) Oak	35	Sapling	2	13				
Black/Red (Hybrid) Oak	10	Log	13	85				
White Oak	10	Sapling	2	13				
White Oak	10	Log	14					
Bigtooth Aspen	25	Sapling	2	13				

114 6119 - Mixed Lowland Deciduous Forest Sawtimber Well 34.1 94 111-140 N/A The stand is slightly undulating and it is a mixture of upland and lowland. The upland is about 30% and more concentrated in the eastern end of the stand. The over story is declining. There is a greater proportion of oak down than other species. Timber was setup for sale but did not get cut during the previous inventory cycle.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Log/Pole	11	94	Red Maple	Medium	Variable	Sapling
Red Oak	10	Log/XLog	14		Witch Hazel	Low	Variable	Tall Shrub
White Oak	15	Log	12		Musclewood/Hornbeam	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	20	Log	12		Ash (spp.)	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
115	6113 - Lowland Maple	Poletimber Well	14.4	73	1-50	N/A	The shrub layer is very dense. The over story trees are mainly pole size maple with some larger trees.																																																						
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116	4199 - Other Mixed Upland Deciduous	Poletimber Poor	11.2	32	1-50	N/A	Harvested under contract 73-003-86-01, No Problem. Stand was clear-cut 2" and up. Sparse stand. Poor regeneration area. Several lowland pockets. Originally part of a larger stand.																																																						
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117	6113 - Lowland Maple	Sawtimber Well	27.0	89	51-80	N/A	The stand is a matrix of upland and lowland, with the lowland being the majority. Patch cut January of 2015 under contract # 73-017-13-01, Power Hum Select. Average BA was reduced to 73 sq. ft. by cutting one 80 ft. regeneration gap per acre and marking skid routes between gaps. Gaps are primarily located on upland portions of the stand. Wet areas were avoided where possible. Regeneration in gaps is mostly deciduous shrubs at this point.																																																						
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118	4125 - Black, N. Pin Oak	Poletimber Well	50.9	15	1-50	N/A	The stand was harvested in 2005. Oak less than 4 inches DBH and scattered log size trees were left. The stand is a mix of log, pole, and sapling size trees. Two aged stand over-all, however, a variable middle age class could defined. Aspen in the stand is in patches and is not uniformly distributed.																																																						
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119	6113 - Lowland Maple	Poletimber Well	11.6	94	81-110	N/A	The stand is mainly lowland with inclusion of upland. The upland makes up about 20% of the stand. The over story is declining especially in the oaks. There appears to have been some small salvage harvest done in the stand.																																																						
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120	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	26.5	94	51-80	N/A	The stand is mainly lowland with about 20% upland. Most of the ash is now on the ground. The oak for the most part has slowed its decline. The aspen is still declining. Excellent release of pole and sapling red maple throughout the stand.																																							
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Deciduous Shrubs	High	Variable	Tall Shrub																																											
Serviceberry (Juneberry)	Low	Variable	Tall Shrub																																											
121	3105 - Mixed Upland Herbaceous	Nonstocked	22.8			Managed Opening	This has a high voltage overhead power line running its length. The ground cover under it is mainly grass. The stand is upland, for the most part, but there are inclusions of lowland.																																							
122	4125 - Black, N. Pin Oak	Poletimber Well	13.4	73	51-80	N/A	The stand is hummocky and is mainly oak poles. There are some larger saw log oaks that were left, when the stand was harvested.																																							
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123	622 - Lowland Shrub	Nonstocked	10.0			No	The stand has an inclusion of leatherleaf, but much of the stand is lowland shrubs. The trees, in the stand, have a crown closure that is less than 25%.																																							
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124	6113 - Lowland Maple	Poletimber Poor	12.2	60	1-50	N/A	The stand is a mix of lowland hardwood poles/saplings/logs over lowland shrubs. Stand was previously coded as non-forested.																																							
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125	6113 - Lowland Maple	Sapling Medium	10.6	27	Immature	N/A	The stand is very wet. The regeneration is hard to distinguish because of the thick tag alder and dogwood shrubs. The musclewood is mainly along the edges of the stand.																																							
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126	6229 - Mixed lowland shrub	Nonstocked	2.6			No	The stand is heavy to red osier dogwood.																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
127	6127 - Lowland Pine	Sawtimber Well	5.6	69	141-170	N/A	This stand appears to be wet. The ground cover is mainly huckleberry/blueberry with some inclusions of leather leaf and lowland shrubs. The low areas are most obvious in the eastern portion of the stand.																																																										
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128	6220 - Alder/willow	Nonstocked	7.3	0		No	2023 YOE Comments: Clear-cut under FTP W-73-310 (1988). Tag alder regeneration area. Scattered sapling hardwood.																																																										
129	6112 - Lowland Aspen	Sawtimber Well	21.1	65	81-110	N/A																																																											
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130	6225 - Bog	Nonstocked	2.7			No	This is mainly a leather leaf bog with some scattered trees in it. The trees are mainly white and red pines with some oak and paper birch. The eastern side of the stand changes, becoming more of an L-Type mixed with leather leaf.																																																										
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131	629 - Mixed non-forested wetland	Nonstocked	6.3			No	This stand is mainly marsh grass and leatherleaf. There are some trees present. However, they are widely scattered or they're concentrated along the edges.																																																										
132	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	59.9	94	51-80	N/A	There are inclusions of upland making up about 33% of the stand. In some of the wetter areas wind thrown is present as well as standing water. Harvested under contract # 73-015-13-01, Teed Mix in September of 2017. The residual BA of the stand was 70 sqft with one 60 ft canopy gap created per acre. No one species was eliminated however aspen and ash were targeted. Regeneration is minimal at this time and is mostly witch hazel, muscledwood, and service berry. Expected to take 10+ years to establish. Good crop of pole maple released post harvest.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
133	6225 - Bog	Nonstocked	14.8			No	The stand is almost a treed bog but the crown closure is less than 15%. There are scattered birch, maple, white pine and oaks trees in the stand.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Trace	Variable	Sapling	
								Leatherleaf	Full	< 5 feet	Tall Shrub	
								Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub	
Oak (spp.)	Trace	Variable	Sapling									
Paper Birch	Low	Variable	Sapling									
134	6229 - Mixed lowland shrub	Nonstocked	3.1			No						
135	4125 - Black, N. Pin Oak	Sawtimber Well	27.8	73	81-110	N/A	The stand is on a ridge. The stand has a mixture of mature oak, pine and maple with regenerating pine, oak, maple, and aspen. Three aged stand. The stand was shelter wood harvested around 1975 under contract #38-75A, Coldwell. Portions of the stand were then harvested in 1996.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	10	Pole	7	45
								White Oak	15	Log	14	
								Bigtooth Aspen	5	Pole	6	45
								Black/Red (Hybrid) Oak	45	Log/Pole	12	73
								White Pine	15	Log/Pole	10	
Red Pine	10	Log/XLog/Pole	14									
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Medium	Variable	Sapling									
Huckleberry	Low	< 5 feet	Tall Shrub									
Black/Red (Hybrid) Oak	Medium	Variable	Sapling									
136	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	15.4	7	Immature	N/A	The stand appears to dry out going south. The saw logs increase in percentage going from north to south. It also goes from a maple/ash stand to maple/oak stand going from north to south. However, oak is increasing throughout the stand. Stand was harvested in October of 2014 under contract # 73-017-13-01, Power Hum Select. The stand was cut 4" and up retaining a decent amount of pole/sapling size oak and maple 5 - 20 feet tall. 4.7 sq. ft. of high quality oak and pine were left for retention. A small area (roughly an acre) in the NW corner was not cut because it was too wet. Clear-cut under contract #38-75A, Coldwell.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	45	Sapling/Pole	2	7
								Red Oak	3	Log	12	89
								White Oak	15	Sapling/Pole	3	7
								White Pine	10	Pole/Log	9	
Red Pine	2	Log/XLog	14									
137	6113 - Lowland Maple	Poletimber Well	7.3	46	51-80	N/A	The stand is in a depression and is heavy to pole size maple with some ash and aspen. Clear-cut under contract #38-75A, Coldwell.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	75	Pole/Sapling	5	46
								Quaking Aspen	20	Pole/Sapling	6	46
								White Pine	3	Pole/Sap/Log	5	
Swamp White Oak	2	Log	14									
Sub-Canopy Species	Density	Avg. Height	Size									
Deciduous Shrubs	High	Variable	Tall Shrub									
138	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	9.4	94	1-50	N/A	The stand is variable going from well stocked to poorly stocked. The over story is declining especially in the oaks and ash. However, there is significant maple and ash regeneration in the understory. There is an area in the stand where the water is high enough to kill off the over story. This area is less than 1 acre in size at the current time.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	50	Pole/Sap/Log	7	94
Black/Red (Hybrid) Oak	20	Log/Pole	10									
Sub-Canopy Species	Density	Avg. Height	Size									
Deciduous Shrubs	High	Variable	Tall Shrub									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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139 6119 - Mixed Lowland Deciduous Forest Sawtimber Well 22.9 96 111-140 N/A This stand is along the Teed Drain. The terrain is undulating to rolling. It is also a matrix of uplands and lowlands with the lowlands being the majority. In addition, the bluffs to the south were included in the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Log/Pole/XLog	14	96	Red Maple	Medium	Variable	Sapling
Beech	2	Log/Pole	10		Deciduous Shrubs	Medium	5 - 10 feet	Tall Shrub
Red Oak	9	Log/Pole/XLog	15		Musclewood/Hornbeam	Low	Variable	Sapling
White Oak	12	Log/Pole/XLog	15		Oak (spp.)	Low	Variable	Sapling
Bigtooth Aspen	10	Log/Pole	12					
Black/Red (Hybrid) Oak	10	Log/Pole/XLog	15					
White Pine	15	XLog/Log	18					
Hemlock	2	Log	14					

140 6224 - Treed Bog Nonstocked 4.1 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Medium	10 - 20 feet	Sapling
Leatherleaf	Full	< 5 feet	Tall Shrub
White Pine	Medium	Variable	Sapling

141 6127 - Lowland Pine Poletimber Poor 9.5 45 1-50 N/A Conifer stand with scattered birch and maple. Previously a lowland shrub stand. Clear-cut under contract #38-75A, Coldwell.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling/Pole	4	45	White Pine	Medium	5 - 10 feet	Sapling
Paper Birch	10	Sapling	3		Deciduous Shrubs	High	5 - 10 feet	Tall Shrub
White Pine	80	Pole/Sap/Log	6	45				

142 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 24.7 46 1-50 N/A The stand is a mixture of fully stocked areas and areas that are poorly stocked. The open areas are seeding in with pine. Clear-cut under contract #38-75A, Coldwell.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	8	Pole/Sapling	6		Deciduous Shrubs	Medium	Variable	Tall Shrub
Paper Birch	2	Sapling	4		Pines (spp.)	Low	Variable	Sapling
Black/Red (Hybrid) Oak	50	Pole/Sapling	6	46	Huckleberry	High	< 5 feet	Tall Shrub
White Pine	20	Log/Pole/Sap	12		Oak (spp.)	Low	Variable	Sapling
Red Pine	10	Log/Pole	12					
Bigtooth Aspen	10	Pole	7	46				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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143 4130 - Aspen Sapling Well 21.3 7 Immature N/A

The stand is a matrix of upland and lowland with the lowland being about 20%. The paper birch and oak are heaviest in the lowland areas. Harvested 2" and up in December of 2014 under contract # 73-017-13-01, Power Hum Select. Individual tree retention of approximately 4% which is concentrated along the private property boundary and Teed Drain floodplain. Also scattered pole sized maple and birch were left. Clear-cut under contract #38-75A, Coldwell.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	12	Sapling/Pole	3	7
Paper Birch	5	Pole/Sapling	5	7
Quaking Aspen	25	Sapling	1	7
Bigtooth Aspen	40	Sapling	1	7
Swamp White Oak	3	Sapling	1	7
Black/Red (Hybrid) Oak	10	Sapling	1	7
White Pine	5	Sapling	1	7

144 6119 - Mixed Lowland Deciduous Forest Poletimber Medium 6.3 56 51-80 N/A

West end of stand is upland and more sparse.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	55	Pole/Sap/Log	7	56	Michigan Holly	High	5 - 10 feet	Tall Shrub
Northern Pin Oak	35	Log/Pole	10	56	Red Maple	Medium	10 - 20 feet	Sapling
Swamp White Oak	10	Log/Pole	10					

145 6114 - Lowland Oak Sawtimber Well 10.0 96 81-110 N/A

The stand is mainly on the flood plain of the Teed Drain. The two bluffs along the flood plain to the south of the drain were included. These areas together are less than 3 acres in size. The white pine in the stand is mainly on the bluffs south of the drain.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sap/Log	7		Red Maple	Medium	Variable	Sapling
White Oak	60	Log/XLog/Pole	14	96	Deciduous Shrubs	High	5 - 10 feet	Tall Shrub
White Pine	20	XLog/Log	22		Musclewood/Hornbeam	High	Variable	Sapling
					Ash (sp.)	Low	Variable	Sapling

146 6119 - Mixed Lowland Deciduous Forest Poletimber Well 12.0 48 81-110 N/A

Previously coded as an aspen stand. Aspen canopy cover is below 40%. Borderline between upland and lowland. Lowlands appear to be fairly dry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Pole	7	48	Red Maple	Medium	>20 feet	Sapling
Quaking Aspen	25	Pole	7	48	Northern Pin Oak	Low	10 - 20 feet	Sapling
Northern Pin Oak	30	Pole	7	48				
Red Maple	30	Pole	7	48				
Swamp White Oak	5	Log	14					

147 4199 - Other Mixed Upland Deciduous Poletimber Poor 16.8 48 1-50 N/A

Stand has is a mix of oak, aspen, and maple but it is less than 20 BA. Aspen and maple are 48 years old. Oak 4" and under were left during previous harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	35	Pole	8	48	White Oak	Low	5 - 10 feet	Sapling
Red Maple	15	Pole	7	48	Serviceberry (Juneberry)	Low	10 - 20 feet	Sapling
Northern Pin Oak	45	Pole/Log	9	48				
Paper Birch	5	Pole/Sapling	6	48				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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148 6119 - Mixed Lowland Deciduous Forest Poletimber Well 20.8 48 51-80 N/A Stand is a dryer E-Type and will be able to harvest in the future. Harvested 4" and up in the past. Regeneration has been slow to fill in. Good maple sapling layer in the sub-canopy now. West end is better quality than east.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	30	Pole/Sap/Log	7		Red Maple	High	>20 feet	Sapling
Red Maple	50	Pole/Sap/Log	7	48	Northern Pin Oak	Medium	>20 feet	Sapling
Paper Birch	5	Pole	7	48	Swamp White Oak	Low	>20 feet	Sapling
Swamp White Oak	5	Pole/Log	9		Michigan Holly	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	5	Pole	8	48				

149 6119 - Mixed Lowland Deciduous Forest Sawtimber Well 5.4 60 81-110 N/A Stand is dry in the SW corner but get progressively wetter to the NE. Two-aged stand. Older oak over younger maple/aspens.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Swamp White Oak	25	Log/XLog	15	105	Red Maple	Medium	>20 feet	Sapling
Northern Pin Oak	20	Log/Pole	12					
Quaking Aspen	5	Log/Pole	12	60				
Paper Birch	2	Pole	8					
Sassafras	5	Pole	8					
Red Maple	43	Pole/Log/Sap	8	60				

150 4125 - Black, N. Pin Oak Poletimber Medium 10.7 22 Immature N/A TS #015-99-01. Clearcut 11/99. Left oak trees less than 4" dbh. Stand did not regenerate well to aspen. Most of the trees that now occupy the stand are the residual trees from the harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	75	Pole/Log/Sap	8	22	Northern Pin Oak	Low	5 - 10 feet	Sapling
Red Maple	15	Sapling/Pole	4	22	Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	10	Pole/Sapling	5	22				

151 4119 - Mixed Northern Hardwoods Poletimber Well 12.3 84 81-110 N/A Log sized oak/maple/aspens/pine over younger maple poles.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	66	Pole/Log	8	84	Red Maple	Medium	>20 feet	Sapling
Swamp White Oak	5	Pole/Log	8					
Quaking Aspen	5	Log	14	84				
Paper Birch	2	Pole/Log	8					
Red Pine	2	Log/Pole	11					
Northern Pin Oak	20	Log/Pole	12	84				

152 6119 - Mixed Lowland Deciduous Forest Sapling Medium 8.9 48 1-50 N/A Saplings over brush. Harvested with adjacent stands. Low site quality.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Sapling/Pole	4	48	Michigan Holly	High	5 - 10 feet	Tall Shrub
Blackgum	10	Sapling/Pole	4	48				
Northern Pin Oak	25	Sapling/Pole	4	48				
Quaking Aspen	5	Pole/Sapling	5	48				
Paper Birch	10	Sapling/Pole	4	48				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
153	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	45.5	48	51-80	N/A	Stand is somewhat low and wet. Varies from upland knolls to brushy lowland drainages. This stand was harvested in the past. Good single stem maple recruitment throughout the stem. Aspen is in highest concentration towards Castor Rd.																																					
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154	4131 - Aspen, Oak	Poletimber Poor	14.3	48	1-50	N/A	Sparse aspen stand. Center of the stand is heavy pit mound with 25% cover. Good stocking of oak saplings in the understory.																																					
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155	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	29.8	48	81-110	N/A	Stand is a mix of species there are pockets of E-Type mixed with pockets of A-Type.																																					
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156	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	11.1	50	81-110	N/A	Stand is low and wet. The oak in the stand is mainly pin oak with swamp white oak a close second. West end was habitat cut in the spring of 1974 under FTP W8-494.																																					
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157	310 - Herbaceous Openland	Nonstocked	1.6		Immature	No	Stand is an old pine stump field																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
158	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	29.6	22	Immature	N/A	TS# 015-95-01. Clearcut 11/99. Left oak trees less than 4" dbh. The stand regenerated more to oak with only pockets of aspen. On the dryer site in the stand the covertype is oak on the wetter site it is lowland hardwood. The skid trail use to harvest the stand were deeply rutted and now are vernal ponds.																																																						
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159	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	68.1	67	81-110	N/A	Portions of the stand are wet, mostly in the west end, some of which are too wet to harvest. East end of the stand appears to be harvestable with at least 30% of the land position being upland. The ground cover consist of a lot of royal fern and sensitive fern in low areas and bracken fern on the uplands. The mature oak in the stand has been declining for decades. Oaks in the primary age class are growing well. Stand has three age classes: 67, 94 and 30. Vast majority of the stems are 67.																																																						
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160	6229 - Mixed lowland shrub	Nonstocked	1.9	0		No																																																							
161	6119 - Mixed Lowland Deciduous Forest	Sawtimber Poor	6.6	91	1-50	N/A	Low density aspen logs. Stand is too wet to manage.																																																						
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162	622 - Lowland Shrub	Nonstocked	2.9			No	Stand is a mix of tag alder, willow and grasses. Stand is wet and has a E-Type along the edges of the stand.																																																						
163	4125 - Black, N. Pin Oak	Sapling Medium	33.9	22	Immature	N/A	TS #015-99-01. Clearcut 11/99. Left oak trees less than 4" dbh. The canopy closure is around 50%. There are numerous open areas in the stand separated by dense pockets.																																																						
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164	330 - Low-Density Trees	Nonstocked	2.8			No	Stand has some scattered overstory but it less than 10 BA. The stand is an old pine stump field.																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
165	6113 - Lowland Maple	Poletimber Well	13.2	46	51-80	N/A	Super canopy oak over maple/oak canopy. The oak supercanopy is declining. Stand was habitat cut in the spring of 1974 under FTP W8-494.																																																							
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166	622 - Lowland Shrub	Nonstocked	7.9			No	Stand has a lot of old white pine stumps. The ground cover has some grass but it is mainly blueberry																																																							
167	4125 - Black, N. Pin Oak	Poletimber Poor	9.1	32	1-50	N/A	Stand is filling in with oak and maple. Stand appears to have been heavily ruttled. The dominate species is red maple. The red maple is in thick pockets while the oak is scattered throughout the stand.																																																							
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168	4130 - Aspen	Poletimber Well	13.2	32	81-110	N/A	Harvested under contract 73-003-86-01, No Problem. Stand was clear-cut 2" and up. Dense aspen stand. Area was separated out from a larger cut.																																																							
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169	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	18.3	55	51-80	N/A	Variable density stand. Scattered aspen/swamp white oak/ maple pole/logs over younger pole/sapling red maple. Former openings in the stand have slowly filled in over time. Scotch pine present in the south end.																																																							
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170	4199 - Other Mixed Upland Deciduous	Sawtimber Well	26.3	91	51-80	N/A	North half has about 10-15 ac of upland, interspersed with areas of swamp grass ground cover. Southern half has heavy lowland shrubs and is generally much wetter. Good E3 regen in much of stand. Barely on O9: almost an O5. Oak is swamp white, with some red and pin as well. BA too low for selection and much of stand is inoperable. Evaluate next YOE.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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171 6119 - Mixed Lowland Deciduous Forest Poletimber Poor 10.9 48 1-50 N/A Stand was harvested with surrounding stands. Poor regeneration immediately after harvest. Slowly filling in with maple/oak/birch.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	25	Sapling	3	48	Deciduous Shrubs	Full	5 - 10 feet	Tall Shrub
Red Maple	50	Pole/Sapling	5	48				
Northern Pin Oak	25	Sapling/Pole	4	48				

172 6119 - Mixed Lowland Deciduous Forest Sawtimber Medium 22.2 101 51-80 N/A Stand is very wet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Swamp White Oak	75	Log/XLog/Pole	12	101	Deciduous Shrubs	Medium	5 - 10 feet	Tall Shrub
Red Maple	15	Log/Pole	10					
Northern Pin Oak	10	Log/Pole/XLog	12					

173 6119 - Mixed Lowland Deciduous Forest Poletimber Well 59.9 56 51-80 N/A LEFT OAK OVERSTORY. The stand is a mix of dry ridges and wet pockets. Habitat cut under FTP W8-362 in June 1972.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	45	Log/Pole	11	56	Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	35	Pole/Sap/Log	7	49				
Swamp White Oak	15	Log/Pole	11					
Paper Birch	3	Pole/Sapling	6					
White Oak	2	Log	12					

174 310 - Herbaceous Openland Nonstocked 1.9 Unspecified No Stand is an old pine stump field

175 6229 - Mixed lowland shrub Nonstocked 9.1 No Stand is a L-Type with some swamp hardwoods in it. The BA of the hardwood is less than 10 BA

176 4125 - Black, N. Pin Oak Sapling Medium 17.5 22 Immature N/A TS #015-95-01. Clearcut 11/99. Left oak trees less than 4" dbh. The aspen in the stand has not regenerated well. Overall the stand is an O2E2A1.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	10	Sapling	3	22
White Oak	15	Sapling/Pole	3	22
Red Maple	25	Sapling	3	22
Northern Pin Oak	45	Sapling/Pole	4	22
Paper Birch	5	Sapling	2	22

177 4125 - Black, N. Pin Oak Sawtimber Well 8.9 56 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	10	Log/Pole/XLog	12	93	Red Maple	High	10 - 20 feet	Sapling
Northern Pin Oak	50	Log/Pole	10	56				
Bigtooth Aspen	10	Log	12					
Red Maple	30	Pole/Log/Sap	8	56				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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178 622 - Lowland Shrub Nonstocked 0.8 No Alder, E - type saplings, chokeberry, Mi. holly, blueberry. Good cover and food source.

179 6119 - Mixed Lowland Deciduous Forest Sawtimber Medium 9.0 101 51-80 N/A Swamp white oak stand with marsh grass.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Swamp White Oak	80	Log/XLog/Pole	14	101	Swamp White Oak	Medium	10 - 20 feet	Sapling
Red Maple	20	Pole/Log/Sap	8		Deciduous Shrubs	Medium	5 - 10 feet	Tall Shrub

180 320 - Upland Shrub Nonstocked 2.4 No Stand is a U-Type with some hardwoods in it. The BA of the hardwood is less than 10 BA

181 4131 - Aspen, Oak Sapling Medium 17.2 34 Immature N/A 2023 YOE Comments: Harvested under contract 73-003-86-01, No Problem. Stand was clear-cut 2". Stand has pachy regeneration but overall the stand is a light A2. There are areas of E as well as L and G

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	40	Sapling/Pole	4	34	Swamp White Oak	Medium	10 - 20 feet	Sapling
Northern Pin Oak	25	Sapling/Pole	3	34	Northern Pin Oak	Medium	10 - 20 feet	Sapling
Red Maple	10	Sapling/Pole	3	34				
Swamp White Oak	5	Sapling	2					
Paper Birch	5	Sapling/Pole	4	34				
Quaking Aspen	15	Sapling/Pole	4	34				

182 4131 - Aspen, Oak Poletimber Medium 20.7 48 51-80 N/A OI Stand Year Origin was 1973. Aspen along Nielson Rd is better quality than the north central portion of the stand which is sparse aspen over oak saplings.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	35	Pole	7	48	Northern Pin Oak	Medium	10 - 20 feet	Sapling
Quaking Aspen	25	Pole	6	48	White Oak	Low	5 - 10 feet	Sapling
Northern Pin Oak	30	Pole/Sap/Log	7		Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	10	Sapling/Pole	4	48				

183 4125 - Black, N. Pin Oak Sapling Medium 7.4 22 Immature N/A TS #015-99-01. Clearcut 11/99. Left oak trees less than 4" dbh. Stand did not come back well to aspen, curenly the stand is and O2A1. The SI from the last YOE was used because of the age of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	70	Sapling/Pole	4	22	White Oak	Low	5 - 10 feet	Sapling
White Oak	10	Sapling	2	22	Northern Pin Oak	Medium	5 - 10 feet	Sapling
Swamp White Oak	5	Sapling	2	22				
Red Maple	10	Sapling	3	22				
Bigtooth Aspen	5	Sapling/Pole	4	22				

184 4125 - Black, N. Pin Oak Sapling Poor 4.8 33 Immature N/A 2023 YOE Comments: Clear-cut under FTP W-73-310 (1988). OPIC - FMD: Ground cover is a mix of blueberry and grass. Oak saplings have filled in enough to make this stand forested.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	65	Sapling	2	33
Paper Birch	5	Sapling	2	33
Swamp White Oak	10	Sapling	2	32
Red Maple	20	Sapling/Pole	3	33



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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185 6119 - Mixed Lowland Deciduous Forest Sapling Poor 11.7 33 1-50 N/A 2023 YOE Comments: Clear-cut under FTP W-73-310 (1988).The sawlog trees in the stand are mainly swamp white oak and green ash the pulp trees are a mix of green and black ash as well as red maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Swamp White Oak	15	Log	12		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Swamp White Oak	25	Sapling	2	33	Michigan Holly	High	5 - 10 feet	Tall Shrub
Northern Pin Oak	30	Sapling/Pole	4	33				
Red Maple	30	Sapling/Pole	4	33				

186 6119 - Mixed Lowland Deciduous Forest Poletimber Poor 6.9 46 1-50 N/A Stand is a mix of willow, tag alder, swamp white oak, and quaking aspen with lot of standing water.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Swamp White Oak	55	Pole/Log/Sap	9	46	Tag Alder	High	5 - 10 feet	Tall Shrub
Quaking Aspen	30	Pole/Log	9	46	Willow spp.	Medium	10 - 20 feet	Sapling
Red Maple	15	Pole/Sap/Log	7	46				

187 6119 - Mixed Lowland Deciduous Forest Poletimber Poor 15.9 49 1-50 N/A The saw-log trees in the stand are mainly swamp white oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Swamp White Oak	30	Log/Pole/Sap	12		Deciduous Shrubs	Full	5 - 10 feet	Tall Shrub
Red Maple	45	Pole/Sapling	5	49				
Northern Pin Oak	15	Pole/Sapling	5	49				
Paper Birch	5	Pole/Sapling	5	49				
Quaking Aspen	5	Pole/Sapling	7	49				

188 6119 - Mixed Lowland Deciduous Forest Poletimber Well 6.1 56 51-80 N/A Habitat cut June 1972 under FTP W8-362. Oak was most likely left as it is slightly older.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	50	Pole/Log/Sap	8	56	Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	30	Pole/Sap/Log	7	49				
Paper Birch	10	Pole/Sapling	6					
Quaking Aspen	10	Log/Pole	10					

189 4125 - Black, N. Pin Oak Sapling Well 5.4 22 Immature N/A TS #015-95-01. Clearcut 11/99. Left oak trees less than 4" dbh. Stand is coming back as an A2O1.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	60	Sapling/Pole	4	22	Northern Pin Oak	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	15	Sapling/Pole	4	22				
White Oak	10	Sapling/Pole	4	22				
Red Maple	15	Sapling/Pole	3	22				

190 310 - Herbaceous Openland Nonstocked 1.7 Unspecified No Stand has some black cherry scattered in it but it is less than 10 BA



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
191	310 - Herbaceous Openland	Nonstocked	6.6		Immature	No	2023 YOE Comments: Clear-cut under FTP W-73-310 (1988). Minimal regeneration area. Scattered cherry and oak.																																													
192	622 - Lowland Shrub	Nonstocked	8.4			No	Alder, E - type saplings, chokeberry, Mi. holly, blueberry. Good cover and food source. OI Stand Year Origin was																																													
193	4199 - Other Mixed Upland Deciduous	Poletimber Medium	8.7	46	51-80	N/A	East end of the stand is an active beaver flooding. Much of the east end of the stand has water in it. West end of the stand is on a ridge. Many of the overstory oak/aspens are dead or dying.																																													
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194	4125 - Black, N. Pin Oak	Sapling Medium	5.6	22	Immature	N/A	TS #015-99-01. Clearcut 11/99. Left oak trees less than 4" dbh. The edges of the stand did not regenerate well but the central area regenerated as an O3. North end of the stand is part of a beaver flooding. Beaver are currently removing what little regeneration there was.																																													
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195	4125 - Black, N. Pin Oak	Poletimber Medium	7.4	54	51-80	N/A	TS #015-99-01. Clearcut 11/99. Left oak trees less than 4" dbh. These are mainly in clumps scattered around the stand. In the area away from the clump the stand did not regenerate well.																																													
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196	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	10.4	94	51-80	N/A	Scattered older age class aspen/oak/maple over younger maple/oak. Soil is operable. Leave aspen for ecological value. Not enough volume to warrant harvesting and aspen regeneration will most likely fail.																																													
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197	320 - Upland Shrub	Nonstocked	2.9		Immature	No	Poor regeneration area.																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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198 4126 - White, Black, N. Pin Oak Sapling Medium 9.8 22 Immature N/A TS #015-99-01. Clearcut 11/99. Left oak trees less than 4" dbh. Stand is a light O2. There are some open G-Types in the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	25	Sapling/Pole	3	22	White Oak	Low	5 - 10 feet	Sapling
Northern Pin Oak	50	Sapling/Pole	3	22	Northern Pin Oak	Medium	5 - 10 feet	Sapling
Paper Birch	5	Sapling/Pole	4	22	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	20	Sapling/Pole	4	22				

199 6119 - Mixed Lowland Deciduous Forest Sawtimber Well 6.8 91 51-80 N/A Stand is a mix of low wet pockets and dry knolls. Habitat cut under FTP W8-362 in June of 1972.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Log	14	49	Red Maple	Medium	>20 feet	Sapling
Swamp White Oak	35	Log/Pole/XLog	12	91	Northern Pin Oak	Medium	>20 feet	Pole
Northern Pin Oak	25	Log/Pole	10					
Silver Maple	20	Log/Pole/XLog	14	91				

200 4199 - Other Mixed Upland Deciduous Poletimber Well 6.9 49 51-80 N/A Stand is a mix of low wet pockets and dry knolls. Habitat cut under FTP W8-362 in June of 1972.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Pole/Log	9	49	Red Maple	High	>20 feet	Sapling
Quaking Aspen	20	Log/Pole	10	49				
Northern Pin Oak	15	Log/Pole	10					
Swamp White Oak	5	Log/Pole/XLog	12					
White Oak	10	Log/Pole	10					

201 6112 - Lowland Aspen Poletimber Well 6.5 22 Immature N/A TS #015-99-01. Clearcut 11/99. Left oak trees less than 4" dbh. Stand is a light A3 heavy to trembling aspen. There are some open G-Types in the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	75	Pole/Sapling	5	22
Northern Pin Oak	10	Pole/Sapling	5	22
Paper Birch	5	Pole/Sapling	5	22
Red Maple	10	Sapling/Pole	4	22

202 6113 - Lowland Maple Poletimber Poor 8.6 94 1-50 N/A Formerly part of southern lowland hardwood stand. This portion had more ash which has fallen. Stand is now a poor stocking of released maple poles with a lowland brush understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	75	Pole/Sap/Log	8	94	Michigan Holly	High	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	10	Log	12	94				
Paper Birch	5	Pole/Sapling	5					
Swamp White Oak	10	Log/Pole	12	94				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
203	4199 - Other Mixed Upland Deciduous	Sawtimber Well	16.5	91	81-110	N/A	Upland with pockets of lowland. Un-even aged stand. Good variable understory. High ecological benefit. Let stand progress naturally. The main soil type is Pipestone Sand.																																																
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204	310 - Herbaceous Openland	Nonstocked	2.9	0		No	This stand was originally formed by a trespass from the private owner to the south who was haying this area. The owner appears to be still mowing a portion of the original trespass. High herb and brush (blackberry) and quaking aspen filling in. The stand is along Carrol Creek.																																																
205	6112 - Lowland Aspen	Poletimber Well	49.6	31	51-80	N/A	Harvested in 1990 under contract 73-006-88-01, Castor Road Grouse. All trees were cut 2". The soil under the stand is Pipestone Sand. Around 40 % of the stand is lowland.																																																
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206	622 - Lowland Shrub	Nonstocked	4.5			No	This stand is in a L-Type drainway. The edges are E3 and grades to A3 as it goes into stand 1. The main ground cover is reed grass, tag alder and salix brush. Soil Pipestone.																																																
207	6223 - Inundated Shrub Swamp	Nonstocked	4.3		Immature	No	The stand is low and wet and it is along Castor Road. This stand makes a good pocket of reserve trees in this area of state land. The soil is Wauseon Sandy Loam. Ash has died, stand is now non-forested.																																																
208	4199 - Other Mixed Upland Deciduous	Sawtimber Well	5.6	91	81-110	N/A	This stand is long and narrow and runs right along the private line. The actual size of the stand depends on the private line location. According to the GIS layer, we have a strip most of the length of the private line. Leave the stand for some diversity of age class and future wildlife trees. The soil is Pipestone Sand.																																																
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209	6112 - Lowland Aspen	Poletimber Well	7.5	36	51-80	N/A	Sale #83-'01. Lowland brush throughout. Pin oak at east end. Clearcut in 1985, sale #73-83-1.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
210	4131 - Aspen, Oak	Poletimber Medium	11.7	36	51-80	N/A	Upland, except strip along S edge. Lot of cherry, and oak along road ridge. A few small clearings. Good sized dump site next to road. Sale #83-'01. Clear-cut in 1985, sale #73-83-1.																																																			
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211	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	30.1	37	1-50	N/A	Matrix of upland (15%) and lowland. Patches of alder/willow, oak, aspen. Maple 30%, oak 20%, aspen 25%, remainder ash, birch. Habitat cut under FTP W73-231 in December of 1984.																																																			
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212	6220 - Alder/willow	Nonstocked	31.8			No	Mixed lowland and upland brush. Evidence of old plow furrows indicate possible attempt at planting. Mix of tag alder, willow (short), grasses, autumn olive, dogwood, blueberry, and goldenrod. Some ash at SE end.																																																			
213	4125 - Black, N. Pin Oak	Sawtimber Medium	18.2	89	51-80	N/A	Fair oak regen but heavy shrub competition (hazel, bracken, honeysuckle and V). 1/4 of stand around E and S edge is E type with some ash. These areas were not heavily cut in 85. Sale #83-'01. Aspen removed in 1985, sale #73-83-1.																																																			
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214	4125 - Black, N. Pin Oak	Sawtimber Medium	23.2	94	1-50	N/A	Oak ridge. Overstory beginning to die off. Some oak reproduction. Poor access. New temporary road building required. Two drainage ditch crossings required. No DEGLE permit required. Heavy highbush blueberry cover is prohibiting oak regeneration in places. Would not recommend planting due to access.																																																			
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Blueberry/Bilberry/Cranberry	High	5 - 10 feet	Tall Shrub																																																							
215	622 - Lowland Shrub	Nonstocked	46.6			No	Dogwood, tag alder, autumn olive. Contains scattered mature oak and some scattered small aspen. Some oak and aspen reproduction.																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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216 6119 - Mixed Lowland Deciduous Forest Poletimber Medium 8.5 56 1-50 N/A Formerly coded as aspen. Wet. Red maple and swamp w oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Swamp White Oak	30	Log/Pole/XLog	10		Deciduous Shrubs	High	5 - 10 feet	Tall Shrub
Red Maple	50	Pole/Sapling	6	56				
Paper Birch	10	Pole/Sapling	5	56				
Quaking Aspen	10	Pole	8	56				

217 4125 - Black, N. Pin Oak Sawtimber Poor 39.4 94 1-50 N/A Moderately dense witch hazel under trees. Patchy oak saplings in the understory. Scattered small lowland areas. Very little aspen in stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	45	Log/Pole/XLog	14	94	Northern Pin Oak	Medium	10 - 20 feet	Sapling
White Oak	15	Log	12	94	White Oak	Low	10 - 20 feet	Sapling
Red Maple	15	Pole/Log	9	56	Witch Hazel	High	5 - 10 feet	Tall Shrub
Bigtooth Aspen	5	Pole	8	56	Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	5	Pole	7	56				
Swamp White Oak	10	Log/Pole/XLog	12					
Quaking Aspen	5	Pole	8	56				

218 4199 - Other Mixed Upland Deciduous Poletimber Well 44.4 84 51-80 N/A Moderate density of pole aspen/maple/oak mixed with log sized oak/maple. Some swamp white oak in stand. Access is difficult. Long ridge at west end of stand is continuous upland.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	40	Log/Pole/XLog	10	84	Northern Pin Oak	Low	>20 feet	Sapling
Red Maple	20	Pole/Log/Sap	8	56	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Oak	5	Log/XLog	14		Red Maple	Medium	>20 feet	Sapling
Paper Birch	5	Pole/Sapling	7					
Bigtooth Aspen	30	Pole/Log	9	56				

219 6239 - Mixed Emergent Wetland Nonstocked 31.9 No 5-10% short tag alder/willow. 25% V type.

220 4125 - Black, N. Pin Oak Sawtimber Well 9.0 84 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	XLog/Log	18		Red Maple	Low	>20 feet	Sapling
Red Maple	20	Log/Pole	10	84	Northern Pin Oak	Low	>20 feet	Sapling
Northern Pin Oak	60	Log/Pole/XLog	14	84				
Paper Birch	5	Log/Pole	10					
Bigtooth Aspen	10	Log	14	84				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
221	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	11.5	84	81-110	N/A	Inoperable and very wet with swamp grass ground cover at south end.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Swamp White Oak	10	Log/Pole/XLog	12		Red Maple	Medium	>20 feet	Sapling
White Oak	10	Log/Pole/XLog	12					
Red Maple	58	Log/Pole	10	84				
Northern Pin Oak	20	Log/Pole/XLog	12	84				
Paper Birch	2	Pole/Log	8					

222	6225 - Bog	Nonstocked	11.3			No	OPIC - FMD: 27% cattail marsh.
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223	4125 - Black, N. Pin Oak	Sawtimber Medium	46.4	94	1-50	N/A	Very little aspen. Red maple seeding in. Heavy highbush blueberry. Oak seedlgs but not heavy regen. 80% upland scattered small L pockets. Regeneration will be an issue.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	58	Log/XLog/Pole	14	94	Smooth Highbush Blueberry	High	5 - 10 feet	Tall Shrub
White Oak	10	Log/XLog/Pole	14	94	Northern Pin Oak	Low	10 - 20 feet	Sapling
Red Maple	10	Log/Pole	10	65	White Oak	Low	10 - 20 feet	Sapling
Bigtooth Aspen	10	Log/Pole	10	65	Red Maple	Low	10 - 20 feet	Sapling
Quaking Aspen	10	Log/Pole	10	65				
Paper Birch	2	Pole/Log	8					

224	6220 - Alder/willow	Nonstocked	6.5		Immature	No	V at NE end, about 25-30% of stand.
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225	6113 - Lowland Maple	Poletimber Poor	23.5	61	1-50	N/A	Ground cov tag alder, winterberry, blueberry, about 15% V type. Sparse stand. Bog type ground cover (blueberry, leatherleaf, lowland brush.) Non-merchantable aspen.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	65	Pole/Sap/Log	8	61	Deciduous Shrubs	Full	5 - 10 feet	Tall Shrub
Northern Pin Oak	20	Pole/Sap/Log	8	61				
Paper Birch	15	Pole/Sapling	6					

226	4131 - Aspen, Oak	Sawtimber Poor	6.1	77	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	65	Log/Pole	10	77	Northern Pin Oak	Low	10 - 20 feet	Sapling
Northern Pin Oak	25	Log	14		White Oak	Low	10 - 20 feet	Sapling
Red Maple	10	Pole	8					

227	6229 - Mixed lowland shrub	Nonstocked	7.7			No	Mixed lowland brush and marsh. Patches of maple and ash.
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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228 6113 - Lowland Maple Poletimber Poor 9.4 84 1-50 N/A Very wet stand. E5/E7/E1/L. Cattail ground cover.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	75	Pole/Sapling	6	84	Swamp White Oak	Low	10 - 20 feet	Sapling
Northern Pin Oak	20	Pole/Log/Sap	9		Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Swamp White Oak	5	Pole/Sapling	5	6	Red Maple	Low	10 - 20 feet	Sapling

229 4131 - Aspen, Oak Poletimber Poor 9.8 33 1-50 N/A Harvested under contract 73-062-85-01, The Long Goodbye in 1987. Clear-cut 4" and up. The stand is an upland ridge that is sparsely stocked. Stand is just over 25%.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	3	33	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Paper Birch	10	Sapling	2					
Bigtooth Aspen	60	Pole/Sapling	6	33				
Black/Red (Hybrid) Oak	25	Sapling/Pole	4	33				

230 4199 - Other Mixed Upland Deciduous Sawtimber Well 21.4 84 81-110 N/A Upland aspen/oak/maple. Difficult access. Best option is through private.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	38	Log/Pole	12	84	Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	28	Pole/Log	9		Northern Pin Oak	Low	10 - 20 feet	Sapling
White Oak	2	Pole/Log	9		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	30	Pole/Log	9	49				
Paper Birch	2	Pole	8					

231 6112 - Lowland Aspen Sawtimber Medium 44.0 65 81-110 N/A Patchwork of sparse oak uplands, dense swamp aspen, and lowland brush pockets. Stand was sold under contract during the previous YOE but was never cut. Drain is shallow where it goes through this stand. Access is very difficult. Most of the stand is too wet to cut.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	60	Log/Pole	12	65	Northern Pin Oak	Medium	10 - 20 feet	Sapling
Red Maple	10	Log/Pole	10		Red Maple	Medium	10 - 20 feet	Sapling
Northern Pin Oak	20	Log/Pole	10	65	Dogwood (spp.)	Medium	5 - 10 feet	Tall Shrub
Swamp White Oak	5	Log/Pole/XLog	14					
White Oak	5	XLog/Log	18					

232 6119 - Mixed Lowland Deciduous Forest Poletimber Medium 15.0 56 1-50 N/A Scattered maple, aspen, oak. Fairly heavy honeysuckle, winterberry, dogwood. Wet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	25	Pole/Sapling	6	56	Michigan Holly	High	5 - 10 feet	Tall Shrub
Red Maple	35	Pole/Sapling	6	56				
Northern Pin Oak	30	Pole/Sapling	7	56				
Quaking Aspen	10	Pole	7	56				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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233	4199 - Other Mixed Upland Deciduous	Sapling Medium	6.8	31	1-50	N/A	2023 YOE Comments: Harvested in 1990 under contract 73-006-88-01, Castor Road Grouse. All trees were cut 2". OPIC - FMD: The stand overall is regenerating well as an A3. There is a ridge in the NW corner of the stand that is an O2 and at the base of the ridge is stand 4 an L-Type. The soil under the stand is Pipestone Sand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		28	Pole	8	31	Black Cherry		Low	10 - 20 feet	Sapling
Northern Pin Oak		45	Sapling/Pole	4	31	Witch Hazel		Medium	5 - 10 feet	Tall Shrub
White Oak		5	Sapling/Pole	4	31	Northern Pin Oak		Medium	10 - 20 feet	Sapling
Black Cherry		18	Sapling/Pole	4	31					
Red Maple		4	Sapling/Pole	4	31					

234	6112 - Lowland Aspen	Poletimber Poor	23.3	65	1-50	N/A	Sparse aspen stand with scattered large diameter oak and maple. Understory is dense dogwood and other lowland shrub types.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		55	Pole/Log	9	65	Dogwood (spp.)		Full	5 - 10 feet	Tall Shrub
Northern Pin Oak		15	Pole/Log/XLog	9	65	Northern Pin Oak		Medium	10 - 20 feet	Sapling
Red Maple		20	Log/Pole/XLog	10		Red Maple		Low	10 - 20 feet	Sapling
Swamp White Oak		10	Log/Pole/XLog	10						

235	4125 - Black, N. Pin Oak	Poletimber Well	17.1	65	111-140	N/A	Upland portion of former stand. Consists of upland along Nielsen rd and ridge along E edge of stand 103, separated by a very wet E type that would be difficult to cross.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern Pin Oak		55	Pole/Log/XLog	8	65	Black Cherry		Low	10 - 20 feet	Sapling
Quaking Aspen		15	Pole/Log	8	65	Serviceberry (Juneberry)		Low	10 - 20 feet	Sapling
White Oak		5	Log	15		Michigan Holly		Low	5 - 10 feet	Tall Shrub
Red Maple		15	Pole/Log	8						
Bigtooth Aspen		10	Log/Pole	10	65					

236	622 - Lowland Shrub	Nonstocked	8.9			No	Short willow.
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237	4125 - Black, N. Pin Oak	Sapling Poor	6.8	29	Immature	N/A	Aspen clearcut in 1993, sale #19-92-1. Very poor regeneration. Upland, getting wetter at N end. Canopy closure is around 25%. Hazel, cherry, bracken and oak, with some red map. Previously an A6 stand.			
Canopy Species		% Cover	Size Class	DBH	Age					
Northern Pin Oak		75	Sapling	3	29					
White Oak		15	Sapling	2	29					
Red Maple		5	Sapling	2	29					
Paper Birch		5	Sapling	1	29					