



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73124

Entry Year 2023

Acreage: 5,984

County Arenac

Management Area: Gladwin Lake Plain

Revision Date: 2021-05-19

Stand Examiner: Steve Nyhoff

Legal Description:

T19N R03E Sec. 1-3, 11, 12
T19N R04E Sec. 6
T20N R03E 22-24, 26-28, 34-36
T20N R04E 7, 8, 17, 18

Identified Planning Goals:

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

Soil and topography:

The western 2/3 of the compartment is generally flat with some topographical relief along some of the drainages. In addition, the State Land between Old 76 and I-75 is very wet. The eastern 1/3 is hilly with some slopes being too steep to harvest. This becomes a greater problem the closer the drainages and creeks are to the Rifle River.

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

The State Ownership is mostly in two contiguous blocks. There are also 2 isolated blocks. The 160 acres in the southern portion of the compartment is surrounded by private land. However, the State has a management easement over the private land. The 80 along the east side is surrounded by private but it is landlocked.

The private lands are mainly small tracks along the east side. These tracks belong to the Forest Lake Subdivision. The other parcels are significantly larger. Some are permanent residences as well as recreational properties.

Unique Natural Features:

There are records of Channel Darter and Big Water Crayfish in the perennial streams and creeks. The Merolonche doli (moth) has several records in the compartment. There are records of Red Shouldered Hawk near the compartment.

Archeological, Historical, and Cultural Features:

No sites are located in the compartment. There are a couple near the compartment boundary on private land.

Special Management Designations or Considerations:

The Rifle River is a natural river north of the city of Omer. The natural river buffer impacts a small portion of the compartment. This area is the boat launch and the associated State Land off Maple Ridge Road.

Watershed and Fisheries Considerations:

The compartment has numerous drainages and creeks that flow into the Rifle River. The Rifle River is heavily used by boaters and anglers. Any treatment near one of the drainages will need to be set up to avoid sedimentation into them or the Rifle River. This will naturally occur in most of the compartment because the drainages are in valleys with slopes that are too steep to harvest and bottom lands that is too wet to manage.

Wildlife Habitat Considerations:

Wildlife Habitat Considerations: Compartment 124. This compartment is immediately adjacent to the Forest lake Subdivision. Upland systems are dominant in this compartment. Oak and upland-conifer make up the majority of cover types. A limited number of lowland cover types are found in this compartment. Species such as fox squirrel, wild turkey and white-tailed deer are quite common. Furbearers including black bear, bobcat, and coyote use the lowlands as corridors as well as year-round habitat. Other game species likely to be present in this compartment include ruffed grouse

and American woodcock. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These include common yellowthroat, yellow-rumped warbler, gray catbird, redbreasted vireo, white-throated sparrow, hermit thrush and red-breasted nuthatch. The compartment is easily accessible to hunters via Jack Pine Trail or Maple Ridge Road.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 100 and 200 feet. Beneath the glacial drift are the Pennsylvanian Saginaw Formation and the Mississippian Michigan Formation. The Michigan is quarried for gypsum and the Saginaw is used for clay/shale. Gravel pits are not located in this area and potential appears to be limited. Most of the Compartment is currently leased for oil and gas development. There are numerous wells that have been capped. There are some active oil extraction sites in the southern portion of the compartment.

Vehicle Access:

The access to the compartment is generally good. There are county roads that provide access to most of the compartment. There are also numerous forest trails that are used to further the access. Some of the forest two-tracks see excessive ORV use leading to environmental damage. Most of the damage are areas where ORVs run in tight circles digging pits into the State Land. Some of these holes hinder vehicle access.

Survey Needs:

Most of the boundaries are adjacent to subdivisions and have good survey information. The State Land in section 2 of T19N R3E is the only area where corners were not readily found. Survey may be needed.

Recreational Facilities and Opportunities:

Dispersed recreation is popular throughout the compartment due to the proximity of the Rifle River and the public in the subdivisions adjacent to the State Land. There is a canoe launch on Maple Ridge Road that is heavily used. In addition, the State Land is heavily used by hunters, ORVs, and snowmobiles. The ORV users regularly use old two-tracks that have been closed to all vehicles for recreational riding.

Fire Protection:

The overall access is good for fire equipment and most of the cover types do not contain explosive fuels like jack pine. The exception to this is along Jack Pine Trail where the cover is heavy to pines and oaks. There is also a large population near the State Land. Therefore, the fire danger is moderate to high.

Additional Compartment Information:

The land locked 80 in section 31 T20N R04E should be disposed of.

The following reports from the Inventory are attached:

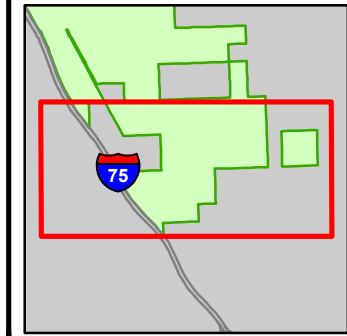
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

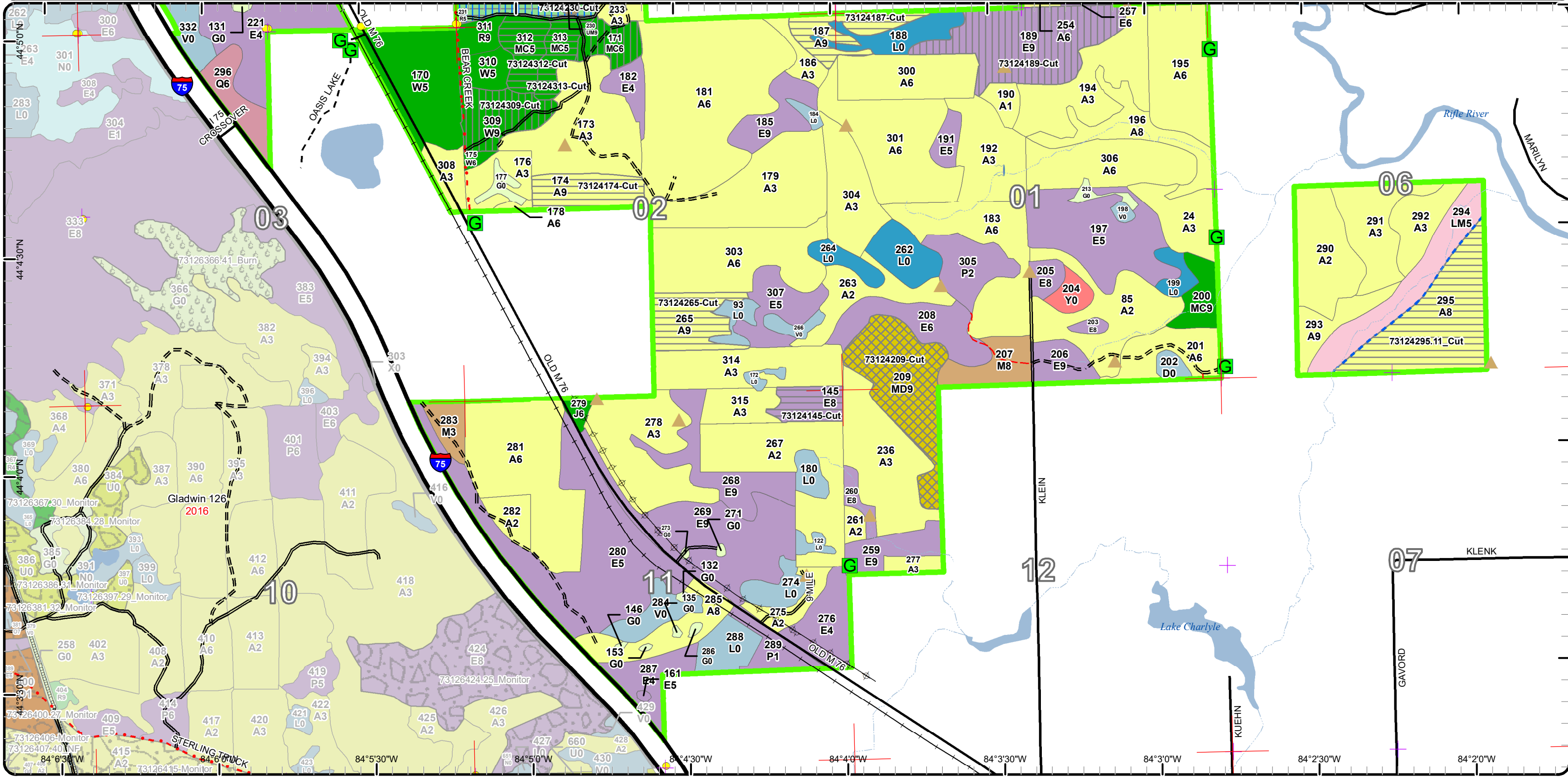
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 124
 T19N R03E Sec. 13, 11, 12
 T20N R03E Sec. 22-24,26-28,34-36
 County: Arenac
 Unit: Gladwin
 Mgmt Area: Gladwin Lake Plain
 YOE: 2023
 Acres: 5984.3 GIS Calculated
 Examiner: Steve Nyhoff
 Map Revised: 6/4/2021
 Map Phase: Web-Post

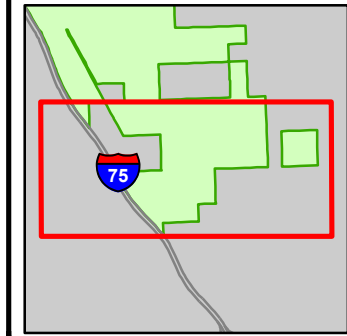


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- == Federal / State Highway
- == Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- Active Railroads
- ▲ Berms
- Ⓜ Gate
- Culvert
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- 730 - Mud Flats



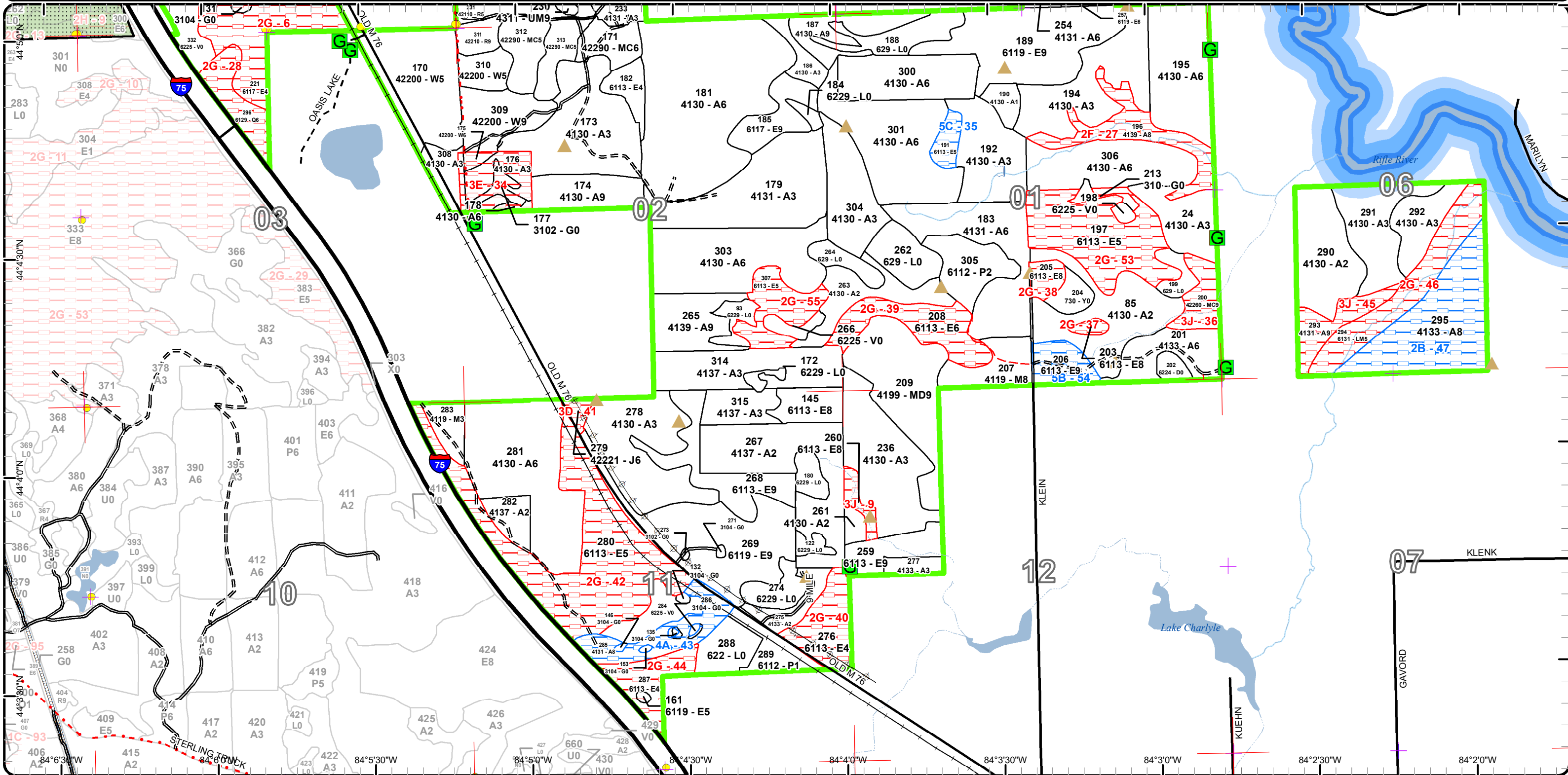
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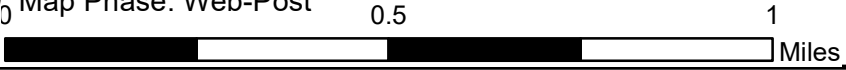
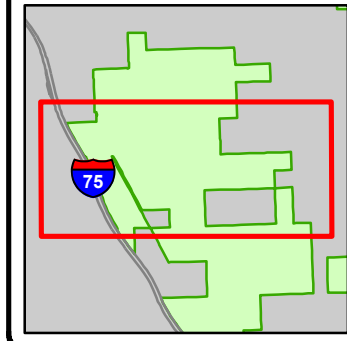
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- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

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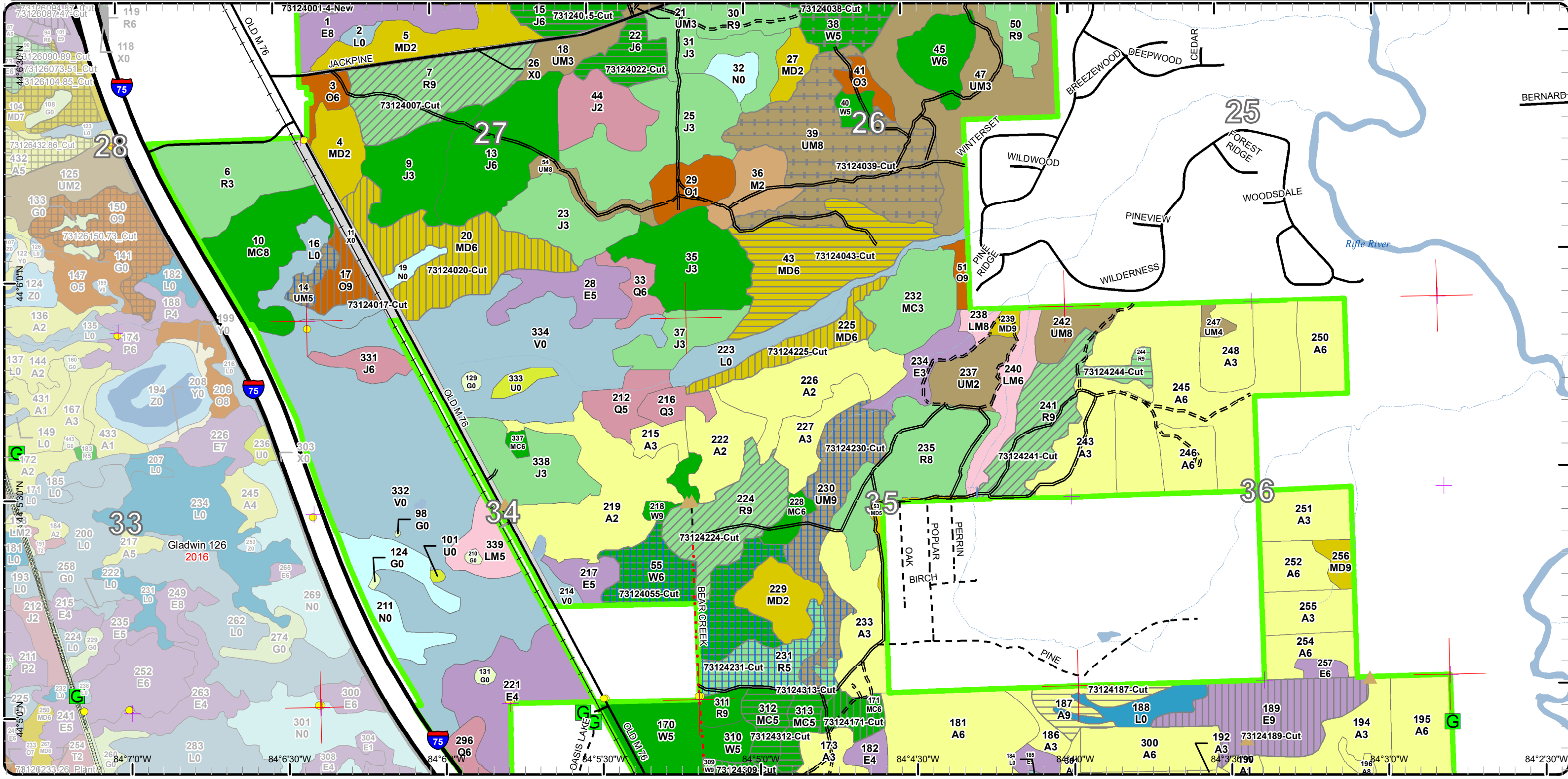


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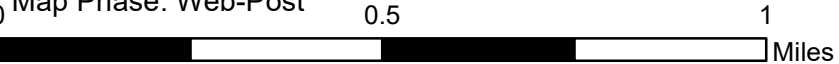
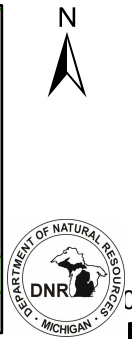
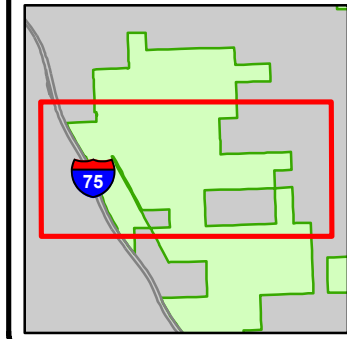


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- 421 - Planted Pines
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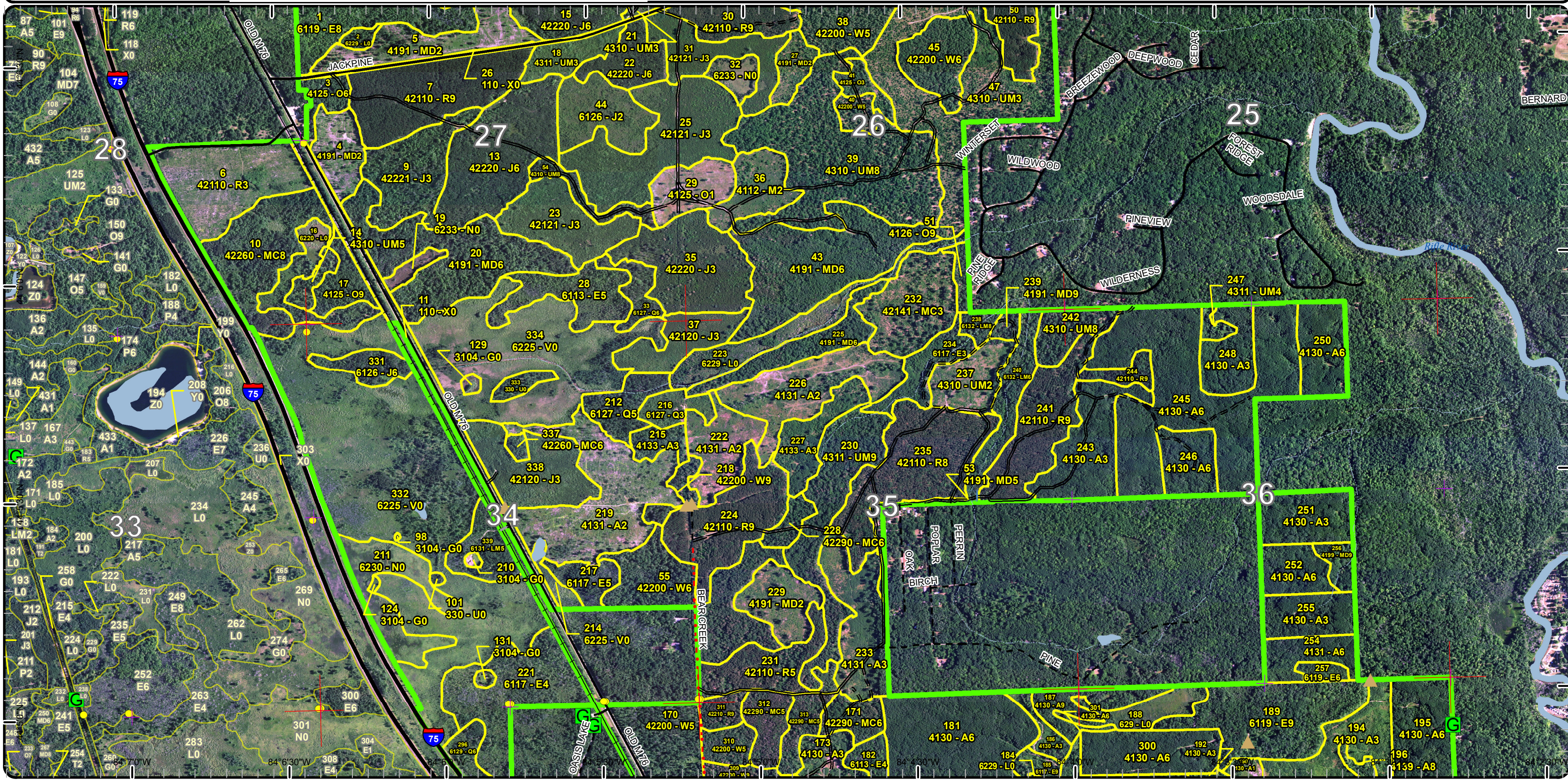


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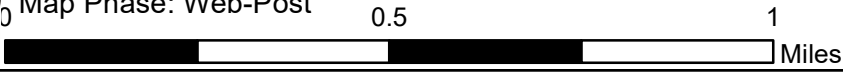
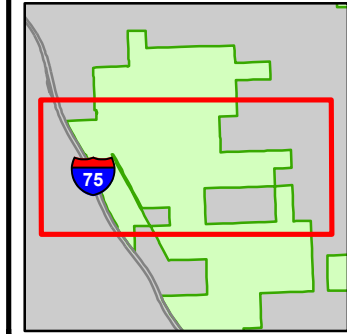


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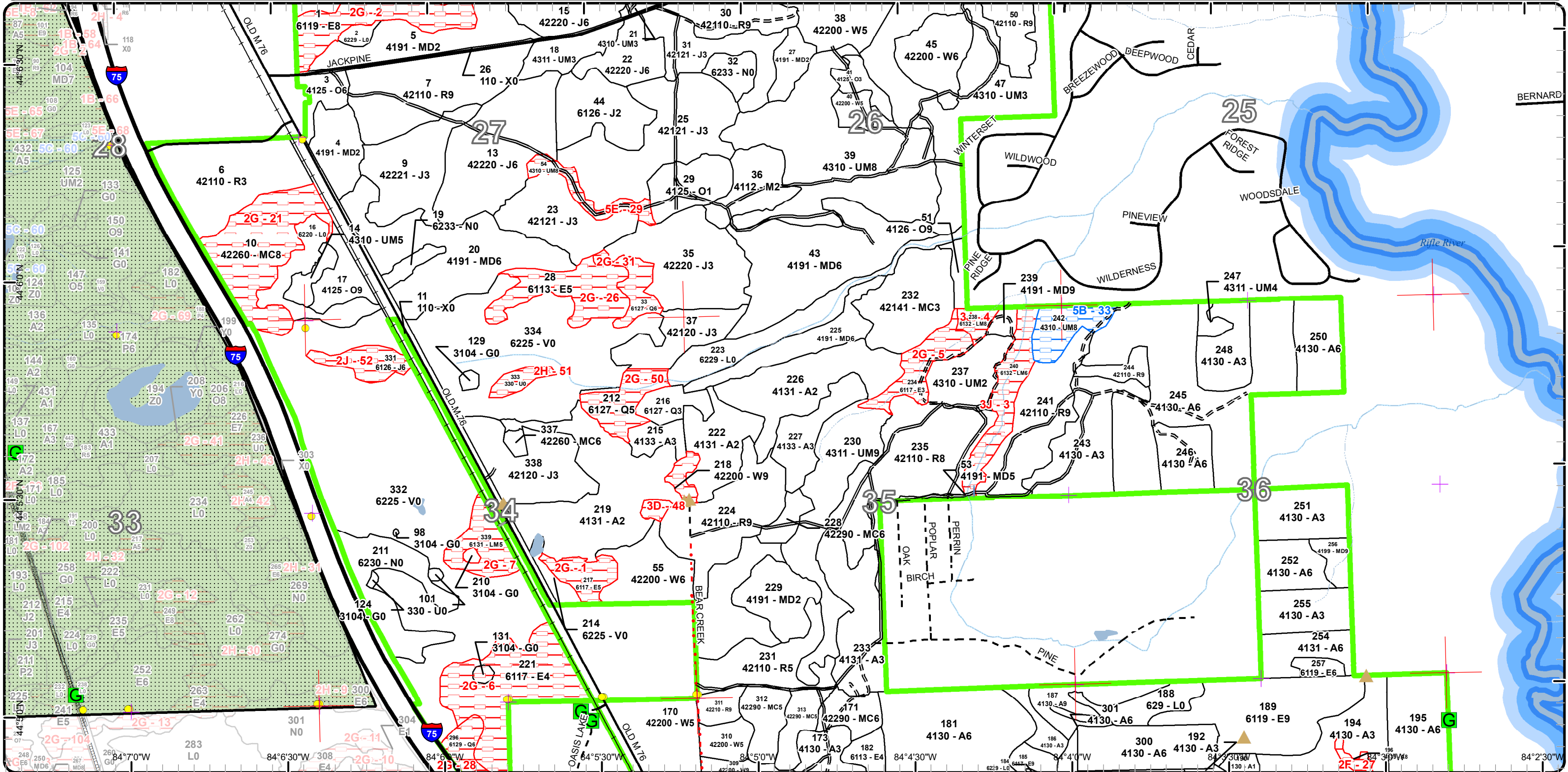


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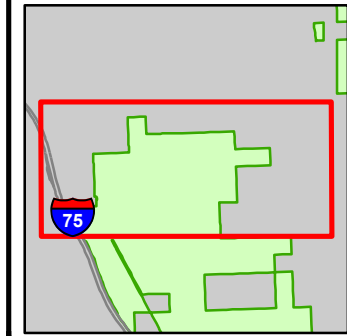


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- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
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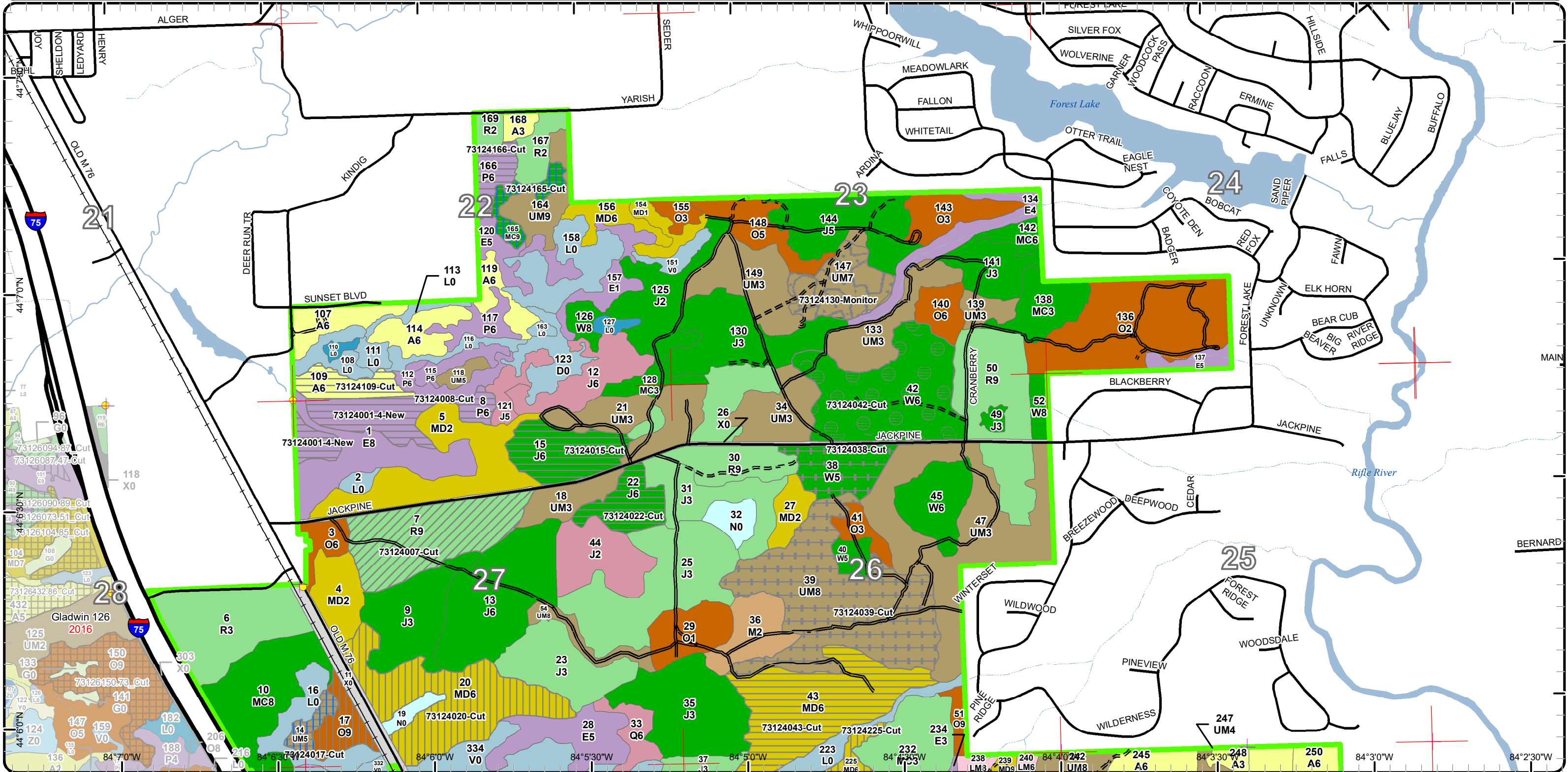


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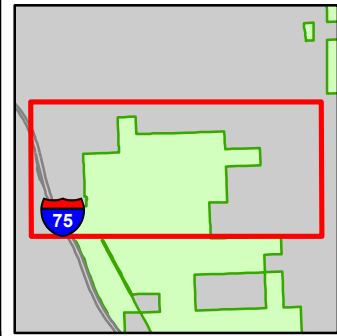


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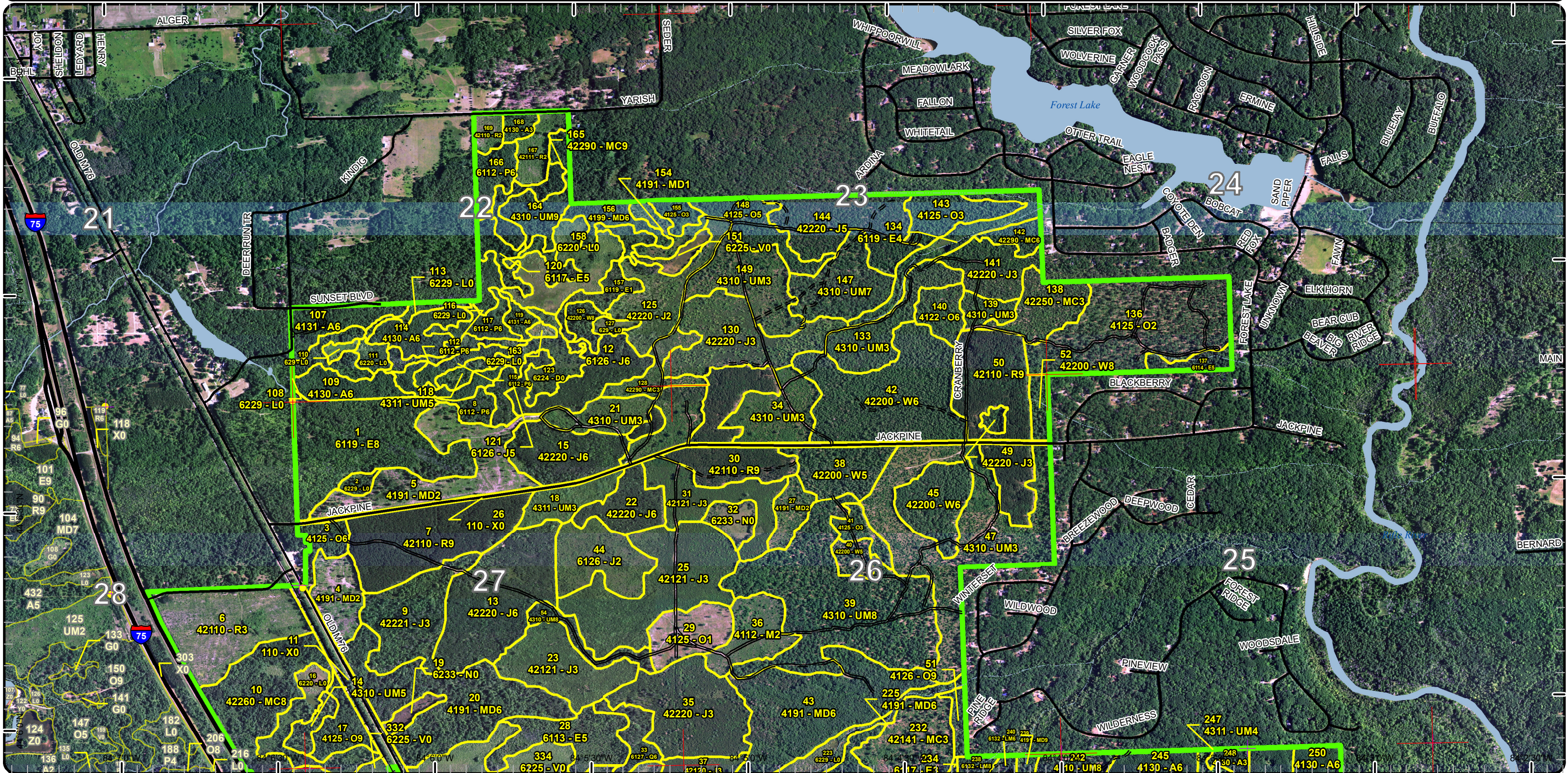


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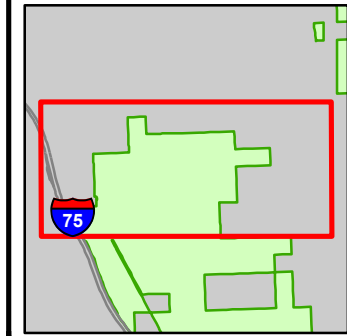


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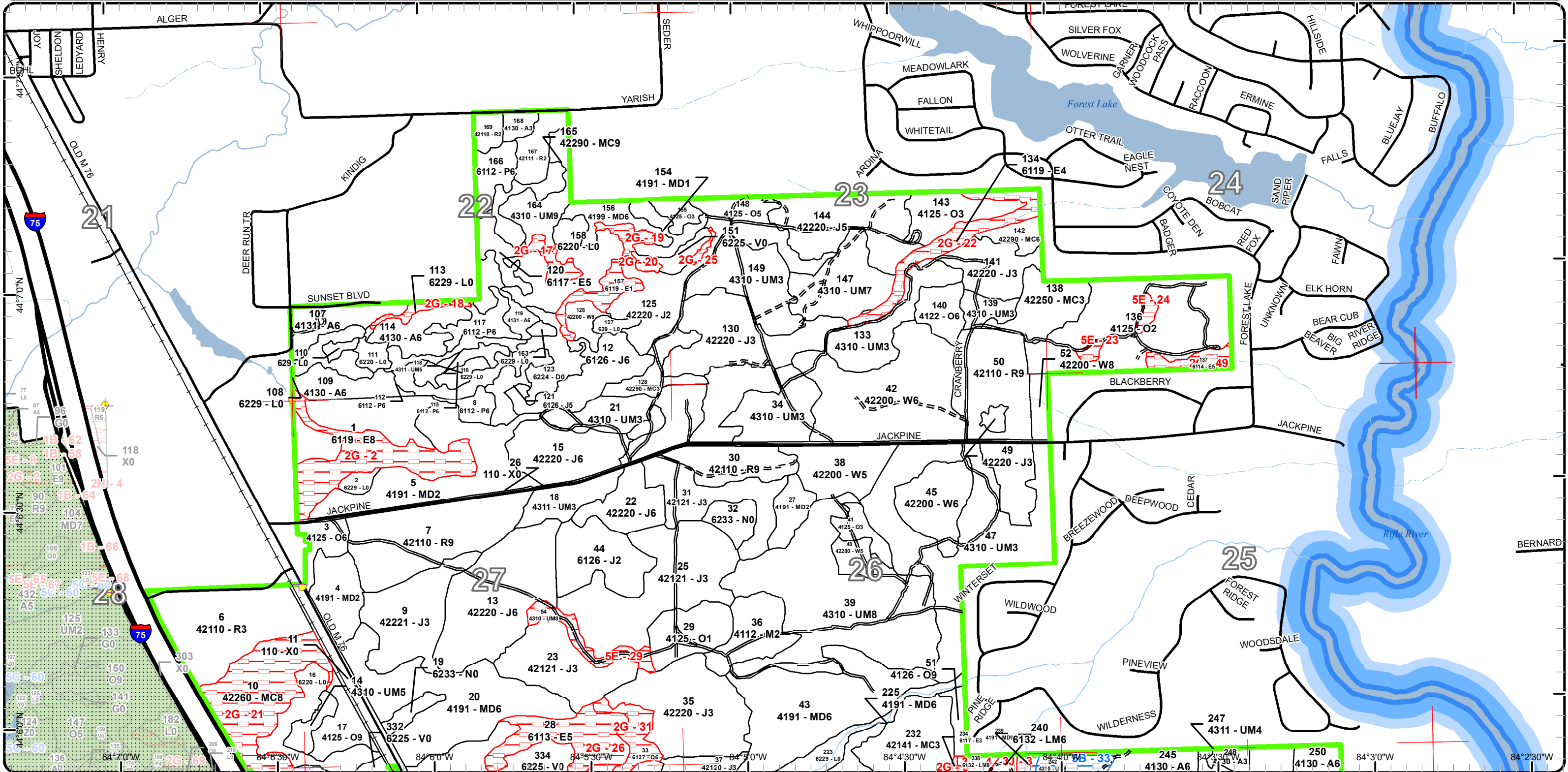


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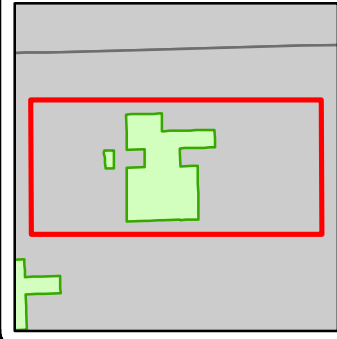


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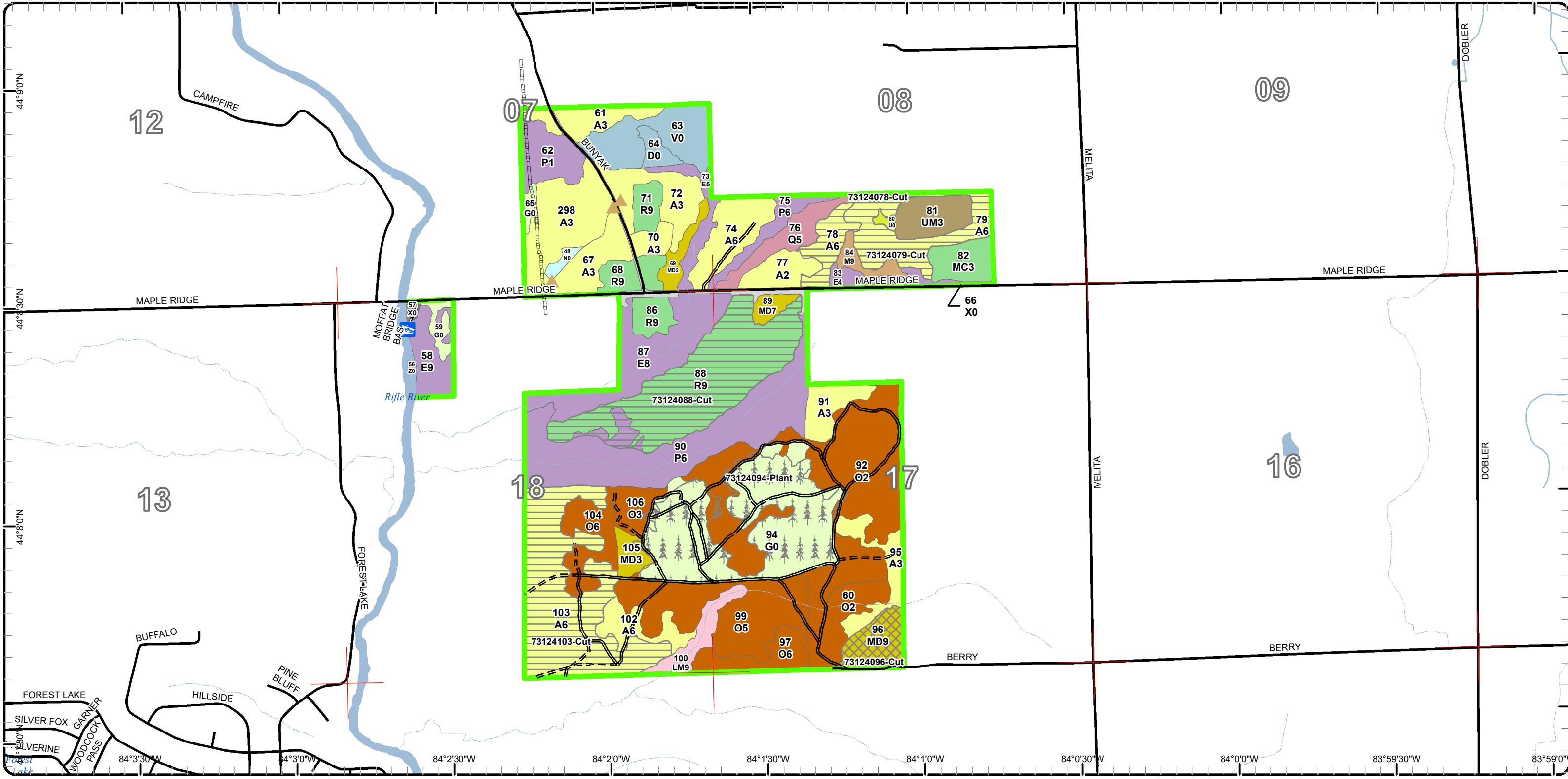


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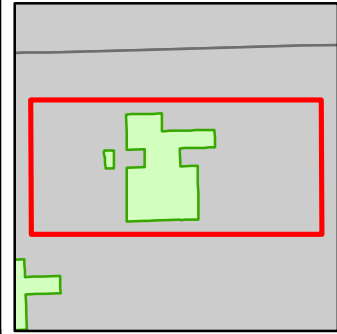


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- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
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- 500 - Water
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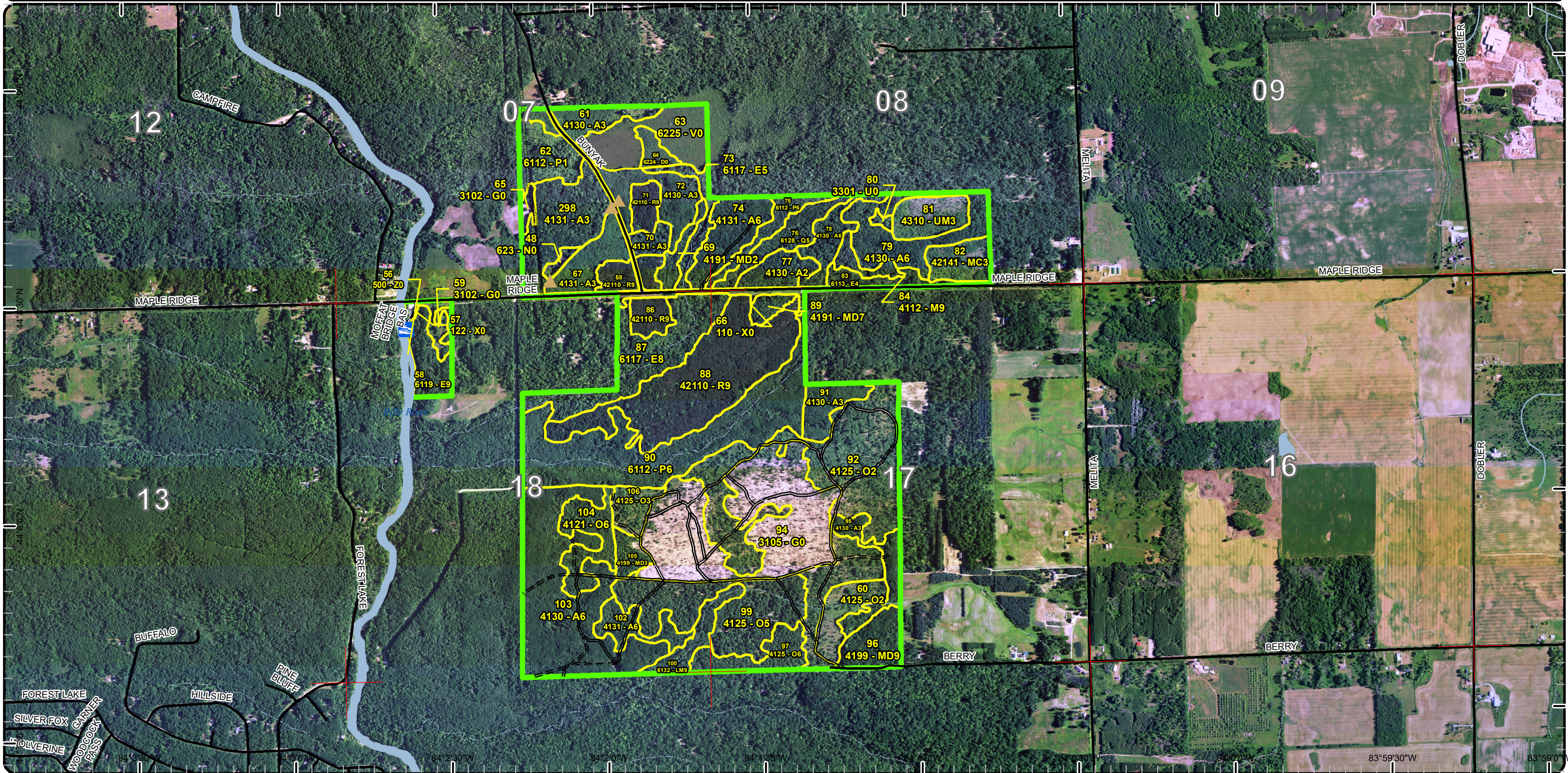
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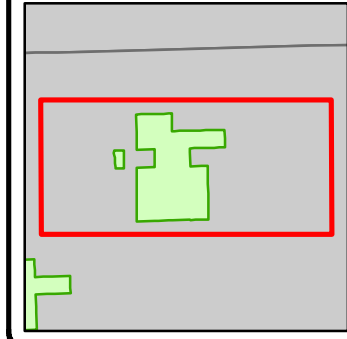
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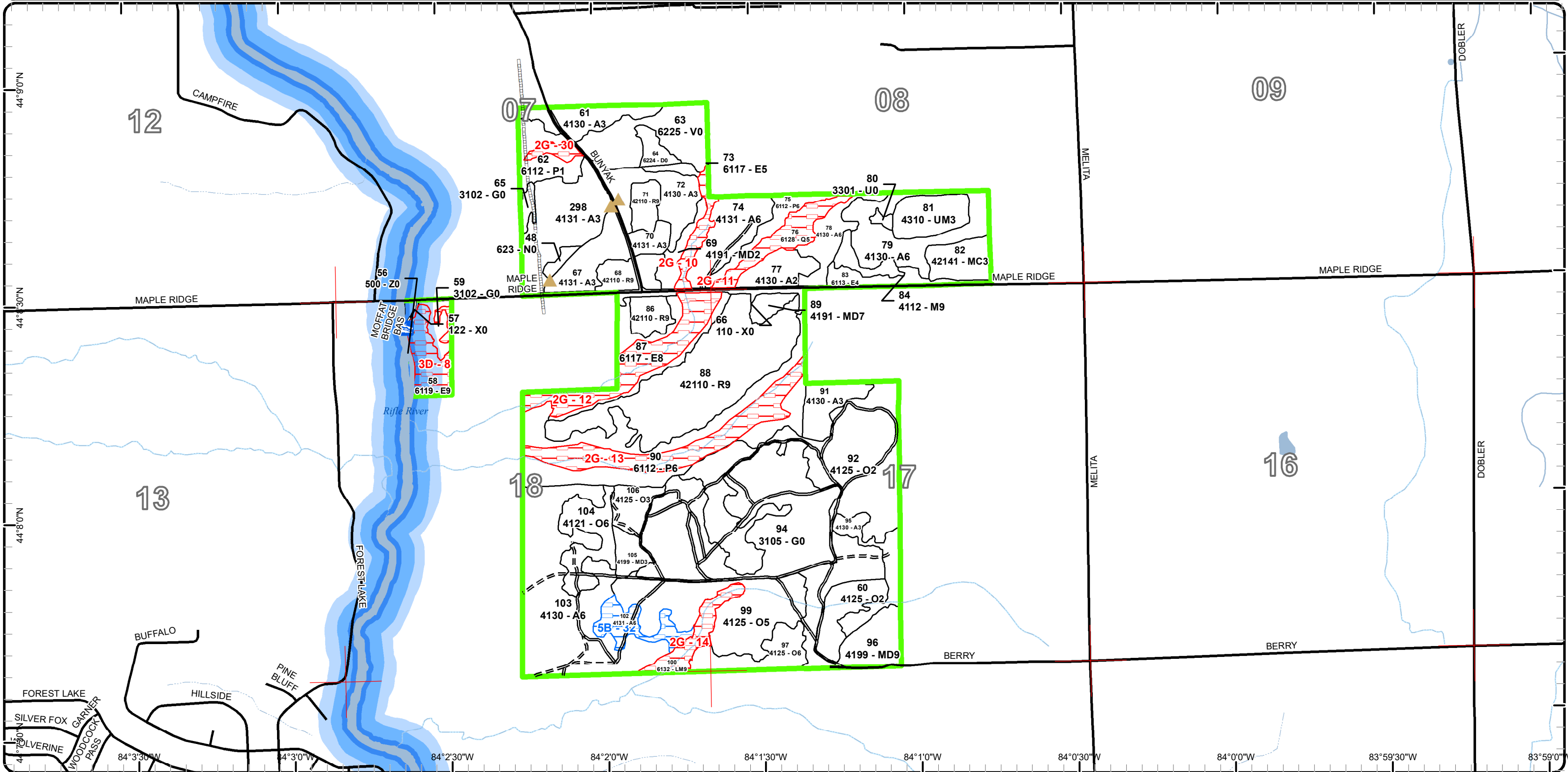


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 Map Phase: Web-Post

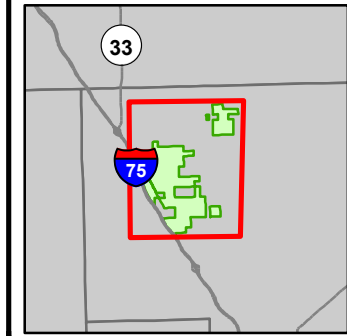


- Miris Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Berms
- Boating Access Site
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

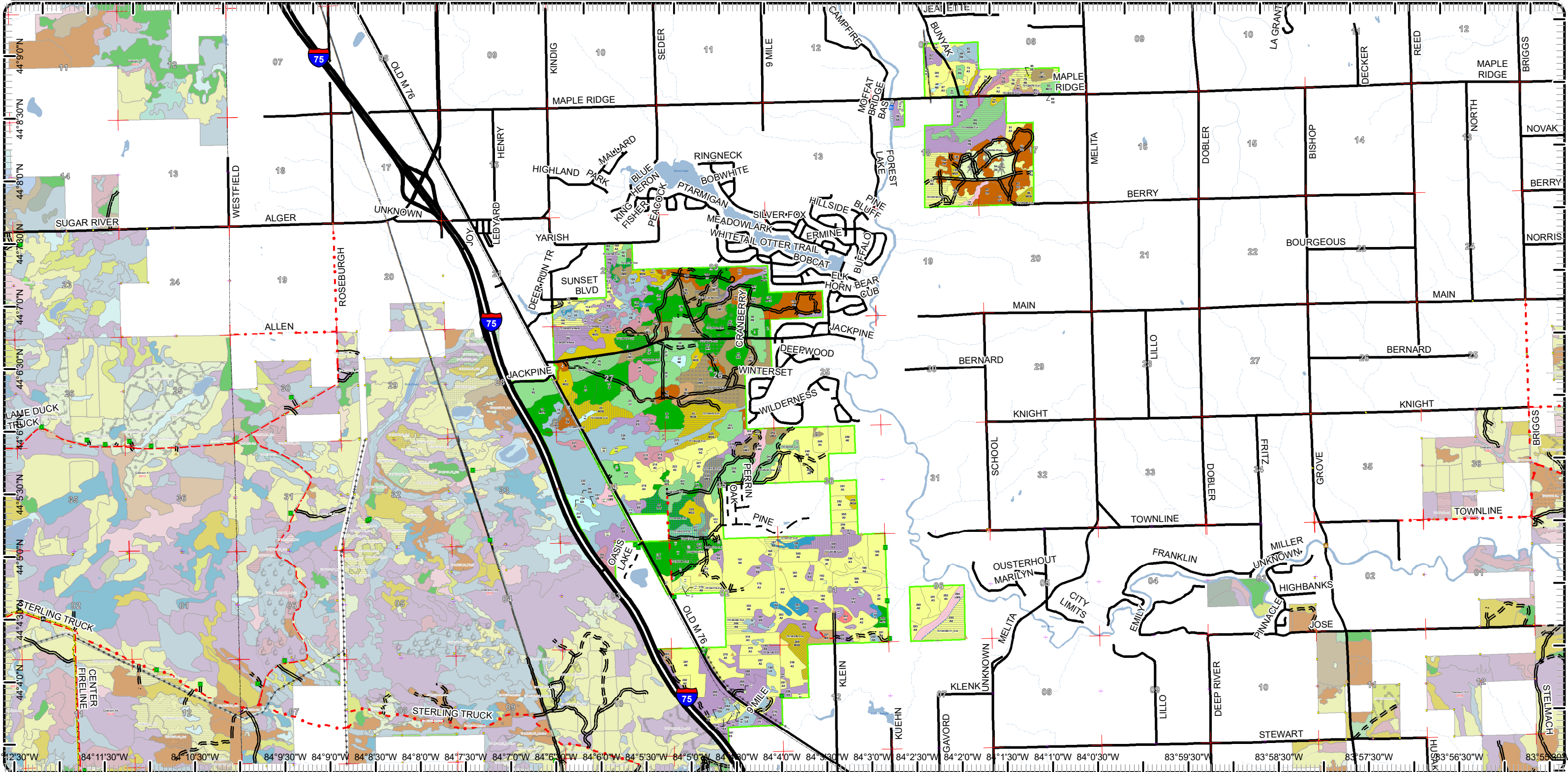


Cover Type & Treatments Map

Compartment: 124
 T19N R03E Sec. 13, 11, 12
 T20N R03E Sec. 22-24,26-28,34-36
 County: Arenac
 Unit: Gladwin
 Mgmt Area: Gladwin Lake Plain
 YOE: 2023
 Acres: 5984.3 GIS Calculated
 Examiner: Steve Nyhoff
 Map Revised: 6/4/2021
 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 / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Active Railroads
- Berms
- Gate
- Boating Access Site
- Culvert
- Campground
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Planting (tree species)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Patch/Strip Cut (Femelschlag)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland
- 730 - Mud Flats



84°12'30"W 84°11'30"W 84°10'30"W 84°9'30"W 84°9'0"W 84°8'30"W 84°8'0"W 84°7'30"W 84°7'0"W 84°6'30"W 84°6'0"W 84°5'30"W 84°5'0"W 84°4'30"W 84°4'0"W 84°3'30"W 84°3'0"W 84°2'30"W 84°2'0"W 84°1'30"W 84°1'0"W 84°0'30"W 83°59'30"W 83°58'30"W 83°57'30"W 83°56'30"W 83°55'30"W

Report 1 – Total Acres by Cover Type and Age Class

Gladwin Mgt. Unit

Compartment 124 Year of Entry 2023

Steve Nyhoff : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	203	264	382	634	176	0	34	70	50	0	0	0	0	0	0	0	0	1813
Bog	329	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	328
Herbaceous Openland	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95
Jack Pine	0	0	244	94	81	35	16	35	3	0	0	0	0	0	0	0	0	0	508
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	0	25	69	17	41	5	0	0	0	0	0	0	0	0	0	0	0	156
Lowland Conifers	0	0	9	0	0	0	0	29	0	9	0	0	0	0	0	0	0	12	59
Lowland Deciduous	0	0	0	0	42	64	0	15	167	195	95	0	0	0	0	0	0	79	657
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	62	0	4	0	0	0	0	0	10	76
Lowland Shrub	173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	173
Marsh	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Mixed Upland Deciduous	0	76	17	11	20	69	57	5	6	4	41	3	0	0	0	0	0	13	322
Natural Mixed Pines	0	0	11	18	0	15	0	42	0	52	0	0	0	0	0	0	0	0	135
Northern Hardwood	0	0	18	8	0	0	0	0	0	14	0	0	0	0	0	0	0	5	45
Oak	0	125	70	26	15	88	0	5	0	11	0	0	0	0	0	0	0	0	339
Planted Mixed Pines	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Red Pine	0	0	59	0	0	0	0	344	36	0	0	0	0	0	0	0	0	0	439
Sand, Soil	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Treed Bog	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Upland Mixed Forest	0	18	176	32	0	94	42	0	14	6	34	0	13	0	0	0	0	0	429
Urban	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	28	108	0	19	40	5	0	7	0	0	0	0	35	240
Total	724	422	936	640	809	610	228	509	315	443	175	7	20	0	0	0	0	154	5984



Report 2 – Treatment Summary

Gladwin Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 124

Total Compartment Acres: 5,984

Commercial Harvest - 1054
 Harvests with Site Condition - 48
 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	213	0	0	0	0	0	0	0	0	213
Jack Pine	41	0	0	0	0	0	0	0	0	41
Lowland Aspen/Balsam Poplar	15	0	0	0	0	0	0	0	0	15
Lowland Deciduous	36	0	0	0	49	0	0	0	0	85
Mixed Upland Deciduous	60	54	0	0	77	0	0	0	0	191
Natural Mixed Pines	23	0	0	9	10	0	0	0	0	42
Oak	0	0	0	0	11	0	0	0	0	11
Red Pine	75	0	0	25	0	122	0	0	0	222
Upland Mixed Forest	0	0	0	47	0	0	90	0	0	137
White Pine	0	0	61	47	19	0	19	0	0	146
Total	463	54	61	128	166	122	109	0	0	1103

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	1103	0	74	0	0	23	0	0	0	1200
Next Step	0	222	93	0	0	93	1063	0	0	1472
Total	1103	222	167	0	0	93	1087	0	0	2672



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

1	73124001-4- New	26.0	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	89	51-80	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
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Prescription There are ridges that could be treated. They are heavy to oak and maple. Harvest as a clear cut with retention. The retentions should be
Specs: marked oak and pine.

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

Acceptable mixed swamp hardwoods
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

7	73124007-Cut	47.1	42110 - Planted Red Pine	Sawtimber Well	65	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin the stand taking the BA down to 110 sq. ft. It is currently around 170. When harvesting clearcut around a 1 chain strip along Jack Pine
Specs: Trail.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

8	73124008-Cut	5.1	6112 - Lowland Aspen	Poletimber Well	50	51-80	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Harvest the stand as a clear cut with retention. The retention should be in pockets. Harvest will need to be done in dry or frozen conditions.
Specs:

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

Acceptable Medium or better regeneration of aspen.
Regen:

Other Stand needs to be looked at after snow melt to determine if the site is manageable.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



Stand	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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14	73124014-Cut	5.7	4310 - Pine, Oak Mix	Poletimber Medium	82	1-50	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription Treat as a seed tree harvest retaining 20 sq. ft. Any harvest will need to be done during dry or frozen conditions. The wettest areas will need to be painted out. This will significantly reduce the harvest acres from the inventory acres. The access is through stand 6.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium or better stocking of mixed regeneration.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

15	73124015-Cut	25.0	42220 - Natural Jack Pine	Poletimber Well	68		Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
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Prescription The stand needs to be harvested as a clear cut with retention. The retention is to be in islands and protect the wetter ground. The harvest will need to be done during dry or frozen conditions. When harvesting leave the jack pine tops as a seed source to promote regeneration.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable medium or better stocking of jack pine mixed with oak, maple and aspen.

Regen:

Other

The wettest area is along the west side of the stand.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

17	73124017-Cut	11.3	4125 - Black, N. Pin Oak	Sawtimber Well	82	1-50	Harvest	Shelterwood with Retention	412 - Oak Types	Two-Aged	No
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Prescription Treat the upland as a shelterwood harvest retaining 40 BA. Any harvest will need to be done during dry or frozen conditions. The wettest areas will need to be painted out. This will significantly reduce the harvest acres from the inventory acres. The access is through stand 6.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium stocking of oak, aspen, jack pine, and maple

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

20	73124020-Cut	57.3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	55	51-80	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription The jack pine and aspen needs to be harvested to 2" DBH. The other species should be marked retaining around 40 BA. The species that should be retained are the larger oak and pine. May also want to retain all white pine and oak less than 4" DBH.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
22 73124022-Cut	16.0	42220 - Natural Jack Pine	Poletimber Well	51		Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Harvest the stand as a clear cut with retention. During the harvest leave the jack pine tops for regeneration. The harvest would have to be from mid-summer through late winter to avoid rutting in the spring. The Jack pine has an average of about 3 sticks per tree.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Medium or better stocking of jack pine mixed with some oak, maple and aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
38 73124038-Cut	19.3	42200 - Natural White Pine	Poletimber Medium	55	81-110	Harvest	Overstory Removal	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Harvest the stand as an overstory removal to release the advance regeneration. Mark the retention to retain 20 BA.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of pines, oak, and aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
39 73124039-Cut	89.5	4310 - Pine, Oak Mix	Sawtimber Medium	46	51-80	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest the stand as an overstory removal retaining trees less than 6" DBH, except aspen, jack pine, and white pine which should be cut to 2" DBH. Mark some of the overstory oak, red pine, and cavity trees to be retained.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> medium stocking of pines, oaks, aspen, and jack pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
42 73124042-Cut	60.5	42200 - Natural White Pine	Poletimber Well	55	81-110	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4220 - Natural White Pine	Even-Aged	No
<p><u>Prescription</u> Harvest the stand by cutting strips 2 chains wide leaving 4 chains between cut strips. The strips need to be cut from east to west to lessen the visual impact of the harvest. Retain most of the oak in the cut strips. Mark what oak needs to be harvested to allow logging equipment to harvest cut strips and minimize damage to residual. In clued the oak wilt spec in the sale. During harvest leave some jack pine tops.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Medium or better regeneration of mixed species in cut strips</p> <p><u>Regen:</u></p> <p><u>Other</u> The strips are to be scarified to facilitate regeneration.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
43 73124043-Cut	60.0	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	49	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest the stand as a clearcut with retention. The retention should be in pockets. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> The stand would be expected to regenerate to a moderate to fully stocked aspen/oak/pine mix <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
55 73124055-Cut	47.1	42200 - Natural White Pine	Poletimber Well	53	81-110	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Harvest as a seed tree keeping the average BA around 20. The retention should be in the oak, red pine, XL white pine, and white pine in that order. They should also be kept in clumps. All the aspen, jack pine, and other hardwood species should be removed. Also, all the trees within 50' of Bear Creek Road should be removed to help avoid trees falling into the road. The wet ground at the west end of the stand should be painted out. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Medium or better stocking of pine, aspen and oak. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
78 73124078-Cut	10.8	4130 - Aspen	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> The stand is mostly uplands and it needs to be harvested. When setting up the stand to be harvested mark some of the larger oak and pine for retention and seed source. The harvest needs to be done during dry or frozen conditions. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> It should regenerate to a mix of aspen and oak. <u>Regen:</u> <u>Other Comment:</u> The wettest areas may need to be painted out and may significantly reduce the harvest acres. Drumming Log spec needs to be included in the treatment. <u>Site Condition</u> <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
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79	73124079-Cut	24.1	4130 - Aspen	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest the stand as a clear cut with retention. The retention should be in pockets.

Specs:

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring,
Treatments: Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Medium or better stocking of aspen mixed with oak and pine.

Regen:

Other May need to plant a portions of the stand to red pine if the other harvest in the area are indicators of natural regeneration which was patchy.

Comment: Drumming Log spec needs to be included in the treatment.

Site Condition

Proposed Start Date: 10/1 /2022

88	73124088-Cut	68.9	42110 - Planted Red Pine	Sawtimber Well	60	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear cut stand without retention. Expand the harvest at the west end to include some of the upper ground in stand 90. The stumps in the stand are to be cut low to facilitate replanting. Access is either across private land to the east, or off Maple Ridge Road which would require a temporary driveway permit and culvert to cross a significant ditch. Also the stand has a low line that looks to be cable that would need to be raised to allow logging truck to access the stand.

Next Step SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable fully stocked red pine plantation

Regen:

Other Forest health has been contacted about red pine mortality pockets. Pending the finding from a field visit the treatment may need to be

Comment: altered once the cause of the mortality is determined.

Site Condition

Proposed Start Date: 10/1 /2022

94	73124094-Plant	73.9	3105 - Mixed Upland Herbaceous	Nonstocked		Immature	Planting	Replant	4211 - Planted Red Pine	Even-Aged	No
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Prescription Planted red pine to meet stocking standards. Stand was originally planted in 2018.

Specs:

Next Step Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Planted red pine with mixed deciduous meeting minimum stocking standards

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 1 /1 /2022

96	73124096-Cut	12.9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	57	111-140	Harvest	Group Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Harvest the stand as a species removal by cutting the aspen and marking thick areas down to 60 BA. The removal of the aspen will create regeneration gaps as well as a good shelter wood environment through the rest of the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium or better stocking in the understory.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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103	73124103-Cut	66.0	4130 - Aspen	Poletimber Well	49	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest as a clear cut with retention. The retention should be in pockets and mark some of the oak and white pine to be retained.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other Drumming Log spec needs to be included in the treatment.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

109	73124109-Cut	12.0	4130 - Aspen	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest as a clearcut with retention. The retention should be in pockets but not exceed 5% of the acres.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable medium or better stocking of aspen mixed with maple and pine

Regen:

Other Drumming Log spec needs to be included in the treatment.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

145	73124145-Cut	10.3	6113 - Lowland Maple	Sawtimber Medium	75	81-110	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
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Prescription Harvest as a clearcut with retention. The retention should be the XL oak, white pine, and maple. May also want to reserve the 4" DBH advance understory. The harvest will need to be done during dry/frozen conditions.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium stocking of swamp hardwoods with aspen and pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

165	73124165-Cut	8.5	42290 - Natural Mixed Pine	Sawtimber Well	66	81-110	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Two-Aged	No
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Prescription Harvest the stand as a seed tree harvest retaining 10 to 20 BA. Harvest during dry or frozen conditions and leave top wood for seed and regeneration.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable medium stocking of pines mixed with some hardwoods.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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166 73124166-Cut	9.6	6112 - Lowland Aspen	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Harvest as a clear cut with retention marking some of the pine and oak to be retained. In addition, mark out some small pockets of aspen.
Specs: Harvest during dry or frozen conditions.

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

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

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

171 73124171-Cut	10.4	42290 - Natural Mixed Pine	Poletimber Well	64	81-110	Harvest	Shelterwood	4220 - Natural White Pine	Two-Aged	No
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Prescription Harvest the stand taking the BA down to 30 sq. ft.
Specs:

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

Acceptable Regen: Medium or better stocking of white pine mixed with other pine species and aspen.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

174 73124174-Cut	16.8	4130 - Aspen	Sawtimber Well	64	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription The stand needs to be harvested as a clear cut with retention. The retention should be in pockets and mark some of the red and white oak to be retained.
Specs:

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

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

Other Comment: Drumming Log spec needs to be included in the treatment.

Site Condition

Proposed Start Date: 10/1 /2022

187 73124187-Cut	15.4	4130 - Aspen	Sawtimber Well	69	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut the stand and mark out some of the low areas for retention. In addition, mark some of the pine and oak to be retained. Also, save some of the cavity trees.
Specs:

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

Acceptable Regen: The aspen is overmature and is not expected to regenerate well. The stand will probably convert to maple and oak. Regeneration is acceptable at a medium stocking or better.

Other Comment: Drumming Log spec needs to be included in the treatment.

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
189 73124189-Cut	48.9	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	73	81-110	Harvest	Shelterwood	611 - Lowland Deciduous Forest	Uneven-Aged	No
<p><u>Prescription</u> Harvest the stand as a shelter wood taking the density down to 50 BA. The aspen in the stand needs to be removed. It is way over mature and needs to come out. The harvest of the stand will need to be done in late summer through winter. There are areas that need to be painted out which may significantly reduce the harvest acres from the inventory acres.</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> medium or better stocking of lowland hardwood mixed with conifer.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										
209 73124209-Cut	41.1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	91	111-140	Harvest	Group Selection	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Harvest the stand as a shelter wood by harvesting the aspen and birch. Thin the thick areas of the stand so the average BA is around 50 sq. ft. When marking, favor the retention of maple and oak. There are areas in the stand that will need to be painted out because they are too wet. Therefore, the harvest acres will be significantly less than the inventory acres. The harvest will need to be done during dry or frozen conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> medium or better stocking of mixed hardwood with some pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										
224 73124224-Cut	39.1	42110 - Planted Red Pine	Sawtimber Well	65	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin the stand taking the BA down to 110 sq. ft. It is currently around 170. In addition, harvest the trees within 50' of Bear Creek Road to help reduce the chance of trees falling into the road.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 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
225 73124225-Cut	19.6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	38	81-110	Harvest	Shelterwood	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Harvest the stand as a shelter wood retaining 40 BA of oak, white pine, and red pine. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Medium stocking of hardwood mixed with conifer. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
230 73124230-Cut	41.6	4311 - Pine, Aspen Mix	Sawtimber Well	53	111-140	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Harvest the stand as a seed tree retaining 20 BA. Focus the retention on the larger white and red pines and oak. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> medium or better stocking of pine, aspen, and oak <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
231 73124231-Cut	25.4	42110 - Planted Red Pine	Poletimber Medium	64	1-50	Harvest	Seed Tree with Retention	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Harvest as a seed tree retaining around 20 BA of red pine, white pine, and oak. When marking retain more trees around good regeneration pockets to protect them from excessive damage. This will lead to a variable density with areas having less than 10 BA and other areas having 40 BA. This is acceptable. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Medium or better stocking of pine mixed with oak, aspen, and maple. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <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
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241	73124241-Cut	35.6	42110 - Planted Red Pine	Sawtimber Well	65	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Harvest the stand as a thinning taking the BA down to 110.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

244	73124244-Cut	6.3	42110 - Planted Red Pine	Sawtimber Well	65	111- 140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Harvest the stand as a clearcut retaining scattered red pine for seed. The residual BA should not exceed 10 sq. ft.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium or better stocking of pine mixed with aspen and oak.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

265	73124265-Cut	19.3	4139 - Aspen, Mixed Deciduous	Sawtimber Well	89	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest the stand as a clearcut with retention. The retention should be focused on oak, pine, and cavity trees. Some area retention may be warranted to protect some of the wetter areas. However, the retention should not exceed 10% by BA or area.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium or better stocking of aspen mixed with some oak, pine, and maple.

Regen:

Other

Comment:

Site Condition

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309	73124309-Cut	18.9	42200 - Natural White Pine	Sawtimber Well	74	111- 140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription Harvest as a shelter wood taking the BA down to around 50 sq. ft. The marked trees should favor the retention of white and red pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium or better stocking of pine mixed with oak and aspen.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
312 73124312-Cut	12.7	42290 - Natural Mixed Pine	Poletimber Medium	64	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest as a clear cut with retention. The retention should be in pockets and marks some of the red pine to be retained. It should also be harvested in dry or frozen conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Medium or better stocking of pine mixed with aspen, oak, and maple.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
313 73124313-Cut	10.3	42290 - Natural Mixed Pine	Poletimber Medium	64	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest as a clear-cut retaining some of the red pine and oak. The aspen and jack pine needs to be removed</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Medium or better stocking of pine mixed with oak, aspen, and maple.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Approved Treatments:

147 73124130-Monitor	23.4	4310 - Pine, Oak Mix	Sawtimber Poor	98	51-80	Monitoring	Natural Regen (Intermediate)	42250 - Pine, Oak	Even-Aged	No
<p><u>Prescription</u> monitor regeneration at TCR +4</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of oak and pine will be acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
295 73124295.11_ Cut	48.5	4133 - Aspen, Mixed Pine	Sawtimber Medium	75	51-80	Harvest	Clearcut	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> The aspen in the stand is over mature and needs to be harvested, if not the stand will convert to white pine and maple. The white pine poles that do exist are in good shape and not heavily weevilled. Access to the stand would be difficult being blocked for the north and west by the creek and private land to the south and west. The private land to the west is owned by the village of Sterling so access may be possible. In response to fishery comment in last inventory cycle when harvesting this stand stay back from the creek 100 feet.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Medium or better aspen mixed with oak and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment 1200.2
Acreage Proposed:

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Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions											
		With Condition				2B	4A	5B	5C	2F	2G	2H	2J	3D	3E	3J	5E
1812	1688	76		48	Aspen	49	18	10		22	0				14	13	
329	329	0		0	Bog												
95	90	0		5	Herbaceous Openland		0				1			0	3		
507	493	0		15	Jack Pine						2		10	3			
6	2	0		5	Low-Density Trees							5					
157	127	0		29	Lowland Aspen/Balsam Poplar						29						
59	10	0		49	Lowland Conifers						49						
654	226	16		412	Lowland Deciduous			11	5		395			13		4	
76	0	0		76	Lowland Mixed Forest						53					23	
173	170	0		3	Lowland Shrub						3						
42	42	0		0	Marsh												
322	322	0		0	Mixed Upland Deciduous						0						
137	86	0		52	Natural Mixed Pines						41					11	
45	45	0		0	Northern Hardwood												
338	335	0		4	Oak						0						4
43	43	0		0	Planted Mixed Pines												
440	440	0		0	Red Pine												
6	6	0		0	Sand, Soil												
21	21	0		0	Treed Bog												
428	406	13		9	Upland Mixed Forest			13			0						9
50	50	0		0	Urban									0			
2	2	0		0	Water												
241	233	0		8	White Pine									6	2		
5,984	5,163	106		715	Total Forested Acres	49	18	34	5	22	574	5	10	22	19	51	12
	86%	2%		12%	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)	10	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments:							

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2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3D: Recreational / Scenic values	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Intermittent creek & too wet.							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Inoperable Tawas Muck Soil. Severe rutting hazard. Few acres along edge of st 105 and west of st 98 can be managed when those stands are treated.							

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13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Inoperable Tawas Muck soil: severe rutting hazard.							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2F: Too steep	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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32	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: MSP radio tower lease.							
35	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	3D: Recreational / Scenic values	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	78	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments:							
43	Available	4A: No Markets Available for these Forest Products	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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44	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Steep bluff going down to Parmalee Creek flood plain							
46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
47	Available	2B: Unknown if access through adjacent landowner(s) is possible	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
48	Unavailable	3D: Recreational / Scenic values	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
49	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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50	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
52	Unavailable	2J: Blocked by Railroad	10	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
53	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
54	Available	5B: Maintain for regeneration purposes	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
55	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



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
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	57.1	89	51-80	N/A	The stand has several broad base drains that are very wet. These drains are too wet to harvest and they cut through the stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
American Elm	5	Pole	7		Red Maple	High	10 - 20 feet	Sapling
Red Maple	58	Log/Pole	10	89				
Black/Red (Hybrid) Oak	20	Log/Pole	10					
Paper Birch	5	Pole/Sapling	5					
White Pine	7	Log/Pole	12					
Red Pine	3	Log/Pole	12					
Northern White Cedar	2	Pole	6					

2	6229 - Mixed lowland shrub	Nonstocked	2.9			No	The stand is a depression of lowland shrubs. The perimeter has some overstory pine and oak.
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3	4125 - Black, N. Pin Oak	Poletimber Well	8.0	37	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling/Pole	4	
Black/Red (Hybrid) Oak	90	Pole/Sap/Log	6	37

4	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	16.0	6	Immature	N/A	The stand was harvested as a clear-cut with reserves in the summer of 2015, in Wild Geese, sale 73-016-13. It has regenerated well. However, the crown closure is somewhat variable.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	20	Pole/Sap/Log	6	
Black/Red (Hybrid) Oak	50	Sapling	1	6
Bigtooth Aspen	8	Sapling	1	
Jack Pine	10	Sapling	1	
Red Maple	8	Sapling	1	
Red Pine	4	Sapling	1	

5	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	40.7	6	Immature	N/A	The stand was harvested as a clear-cut with reserves in the summer of 2015, in Wild Geese, sale 73-016-13. It has a crown closure around 50%. A lot of the oak regeneration is not established. The species mix is variable. The residual white and red pine is doing well.
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	15	Sapling	1	
Red Pine	10	Pole/Sapling	6	
Jack Pine	5	Sapling	1	
White Pine	15	Pole/Sapling	5	
Bigtooth Aspen	35	Sapling	1	6



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
6	42110 - Planted Red Pine	Sapling Well	44.3	12	Immature	N/A	The stand was thinned in M-76 Red Pine, sale 73-070-93, in 1994. It was then clear cut in 2008. The sparse natural regeneration is oak, cherry, and maple. It was trenched and interplanted to red pine to bring it to full stocking. The stand has good survival of red pine. The south edge has a lot of volunteer jack pine and oak making the density quite high.																																																						
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7	42110 - Planted Red Pine	Sawtimber Well	47.1	65	171-200	N/A	The stand was thinned in M-76 Red Pine, sale 73-070-93. The harvest was completed in 1995. It was then thinned in JPT Red Pine, sale 73-003-01, in 2007. The stand has some regeneration of oak in pockets. The diameter of the trees decreases going east. The west end has a high percentage of logs.																																																						
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8	6112 - Lowland Aspen	Poletimber Well	5.1	50	51-80	N/A	The terrain is hummocky. The stand has some areas of lowland shrubs and small pockets of leather leaf. The ground cover is heavy to sheep laurel.																																																						
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9	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	31.9	27	Immature	N/A	The stand was harvested in 1994, in Jack Pine Trail JP, sale 73-001-94. It has a few isolated patches of log sized red pine and hybrid oak which has skewed the average DBH for these species. The terrain is hummocky. The ground cover is heavy to sheep laurel.																																																						
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10	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	41.2	84	51-80	N/A	The stand is variable. There are uplands in here as well as lowlands. Some of the lowlands are mainly Michigan Holly, tag alder, and leather leaf. These areas are too wet to treat. The uplands are hummocky with a ground cover of sheep laurel.																																																						
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11	110 - Low Intensity Urban	Nonstocked	25.0			Managed Opening	This stand is old 76 and the RR grade.																																																						
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12	6126 - Lowland Jack Pine	Poletimber Well	21.5	38	81-110	N/A	The stand was harvested in 1984, in sale 73-006-84. It is now a small pole stand. The ground cover is a mix of sheep laurel and leather leaf. The terrain is hummocky.																																				
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13	42220 - Natural Jack Pine	Poletimber Well	51.1	38		N/A	The stand was harvested in 1984, sale 73-007-84. The terrain is hummocky. The stand is around 40% lowlands. The ground cover is sheep laurel which indicates it has a high-water table in the spring through early summer. There are openings in the stand. Some of them are leather leaf depressions.																																				
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14	4310 - Pine, Oak Mix	Poletimber Medium	5.7	82	1-50	N/A	The terrain is hummocky. The ground cover is dryer than stand 17 with only small areas of sheep laurel. It has a lot of oak regeneration. The west side is heavy to jack pine.																																				
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16	6220 - Alder/willow	Nonstocked	17.0			No	This stand is lowland shrubs with a sparse mix of swamp hardwood and conifers.																																				
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17	4125 - Black, N. Pin Oak	Sawtimber Well	11.3	82	1-50	N/A	The stand is oak, but it has difficult access.																																				
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18	4311 - Pine, Aspen Mix	Sapling Well	12.3	14	Immature	N/A	The stand was harvested in JPT Complex, sale 73-005-03. It has good regeneration. The stand is fully stocked. The aspens are in numerous small clones in a matrix of jack pine. The jack pine has a moderate occurrence of galls.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19 6233 - Wet Meadow Nonstocked 4.2 No The stand is a depression that is very wet. It is more of a marsh/bog.

Sub-Canopy Species	Density	Avg. Height	Size
Rushes	Full		Non-Wood

20 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 57.3 55 51-80 N/A The terrain is hummocky. The stand is not homogeneous. There are pockets of red pine, white pine, maple, and oak. The stand is doing okay, and the overall crown closure is just a little over 75%.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Pole/Sap/Log	7	55
Quaking Aspen	10	Pole/Sap/Log	6	
Black/Red (Hybrid) Oak	25	Pole/Log	8	55
White Pine	12	Pole/Log/XLog	9	
Red Pine	5	Log/Pole	12	
Jack Pine	20	Pole	8	55
White Oak	3	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	10 - 20 feet	Sapling
Red Maple	High	Variable	Sapling

21 4310 - Pine, Oak Mix Sapling Well 27.6 14 Immature N/A The stand was harvested in JPT Complex, sale 73-005-03. The clear cut was completed in 2007. There is good natural regeneration, and the stand has filled in. The crown closure is now 75% or greater. Overall, the occurrence of galls is minimal to moderate on the jack pine

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	40	Sapling	1	14
Jack Pine	40	Sapling	2	14
Pin Cherry	5	Sapling	1	
Bigtooth Aspen	10	Sapling	1	14
Red Pine	3	Sapling	1	
White Pine	2	Sapling	1	

22 42220 - Natural Jack Pine Poletimber Well 16.0 51 N/A The terrain is hummocky. The ground cover is sheep laurel indicating a high-water table in the spring and early summer.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	1	
Black/Red (Hybrid) Oak	15	Pole/Sap/Log	6	
Jack Pine	80	Pole/Sap/Log	6	51

Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	Medium	10 - 20 feet	Sapling

23 42121 - Planted Jack Pine, Mixed Deciduous Sapling Well 28.9 16 N/A The stand was harvested in JPT Complex, sale 73-005-03. The clear cut was completed in 2005. It was interplanted with jack pine in 2006. There is some good natural regeneration that is jack pine with some scattered oak, maple, and white pine. There are also some openings. The terrain is hummocky, and the stand gets wetter going south.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	2	
Black/Red (Hybrid) Oak	10	Sapling	2	
Jack Pine	80	Sapling	2	16

Sub-Canopy Species	Density	Avg. Height	Size
Sheep Laurel	High	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
24	4130 - Aspen	Sapling Well	18.0	10	Immature	N/A	The stand was harvested in 2011, in Sterling Canyons, sale 73-011-07. It is on a low plateau that probably has AuGres soils. The site appears to have better soils than the more droughty ridges in the compartment. Overall, it has regenerated well.																																										
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25	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	53.8	19	Immature	N/A	The stand was clear cut in 2002, in Arenac Double-Jack, sale 73-040-99. It was planted in the same year. The jack pine has good survival. The stand is dense, and the leader growth is around 12". The ground cover is sheep laurel which indicates it has a high-water table in the spring through early summer.																																										
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26	110 - Low Intensity Urban	Nonstocked	12.5			Managed Opening	This stand is Jack Pine Trail.																																										
27	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	8.8	16	1-50	N/A	The stand was harvested in JPT Complex, sale 73-005-03. The clear cut was completed in 2005. In the harvest all hardwoods and jack pine were cut. This area was not inter-planted like stand 31 to the west. The regeneration is coming in fine, at the current time the crown closure is approaching 75%. The species mix is variable with different tree species tending to be in concentrated pockets. The terrain is hummocky.																																										
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28	6113 - Lowland Maple	Poletimber Medium	23.4	35	1-50	N/A	The terrain is hummocky. There are some inclusions of upland knobs. However, they are isolated by ground that is too wet to harvest. The understory is heavy to tag alder and Michigan Holly.																																										
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29	4125 - Black, N. Pin Oak	Sapling Poor	17.5	6	Immature	N/A	The stand was harvested as a clear cut with retention in the summer of 2015. The sale was Wild Geese, sale 73-016-13. The stand has regenerated well. The lower crown closure is because much of the oak regeneration is not considered established. There is an area of ORV damage in the stand. Over time the stand is expected to become medium stocked.																																																							
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30	42110 - Planted Red Pine	Sawtimber Well	36.4	70	111-140	N/A	The stand was thinned in M-76 Red Pine, sale 73-070-93. The harvest was completed in 1995. The stand was thinned again in the summer and fall of 2016, in Red Squirrel Pine, sale 73-003-15. Hold the stand until next inventory cycle before thinning or clearcutting and replanting to red pine.																																																							
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31	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	24.8	16	Immature	N/A	The stand was clear cut in 2005, in JPT Complex, sale 73-005-03. The resulting mixed deciduous stand was interplanted with jack pine. The jack pine now dominates the stand. The pine has light to moderate occurrence of galls. The terrain is hummocky.																																																							
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32	6233 - Wet Meadow	Nonstocked	7.5			No	The stand is a well-defined depression that is mainly marsh grass. There are trees around the perimeter.																																																							
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33	6127 - Lowland Pine	Poletimber Well	9.2	84	111-140	N/A	The terrain is hummocky. The stand is dryer at the north end and gets wetter going south. The pine goes from red pine at the north end to a mix of white and red pine towards the south end. The ground cover varies from bracken fern/blueberry to sheep laurel/leather leaf.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
34	4310 - Pine, Oak Mix	Sapling Well	21.3	14	Immature	N/A	The stand was clearcut in JPT Complex, sale 73-005-03. The harvest was completed in 2007. The regeneration is thick. The species mix is variable with areas heavy to oak or heavy to jack pine.																																									
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35	42220 - Natural Jack Pine	Sapling Well	42.3	26	1-50	N/A	The terrain is hummocky. The regeneration is good being mainly jack pine. The maple in the stand becomes a larger component going south. The ground cover of sheep laurel indicates a higher moister regime. There are also some residual red and white pine log trees in the stand.																																									
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36	4112 - Maple, Beech, Cherry Association	Sapling Medium	18.4	13	Immature	N/A	The stand was thinned in M-76 Red Pine, sale 73-070-93. It was completed in 1995. The stand was then clearcut in 2008. Then it was trenced and interplanted to red pine. There are some volunteers of jack pine, oak, maple, and white pine. The crown closure is close to 75% so the stand should have a crown closure greater than 75% in the next inventory cycle.																																									
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37	42120 - Planted Jack Pine	Sapling Well	19.4	15	Immature	N/A	The stand was harvested in JPT Complex, sale 73-005-03, which was completed in 2005. It was then planted with Jack pine in 2006. The terrain is hummocky and there are areas of treed bogs. The mix of uplands to lowlands is 60-40. The crown closure ranges from 60-100% but averages 90%.																																									
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38	42200 - Natural White Pine	Poletimber Medium	19.3	55	81-110	N/A	The stand was harvested in JPT Complex, sale 73-005-03. The harvest removed the hardwoods and jack pine. The created canopy gaps are filling in with oak.																																									
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39	4310 - Pine, Oak Mix	Sawtimber Medium	89.5	46	51-80	N/A	The aspen and jack pine in the stand are declining. There are also some pockets of blow down. This has caused the formation of some canopy gaps. These are filling in with jack pine and oak.																																																			
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40	42200 - Natural White Pine	Poletimber Medium	5.9	40	1-50	N/A	The overstory white pine is moving from poles into sawlogs. There is also a thick understory of oak.																																																			
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41	4125 - Black, N. Pin Oak	Sapling Well	6.7	37	1-50	N/A	The overstory white pine is moving from poles into sawlogs. There is also a thick understory of oak.																																																			
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42	42200 - Natural White Pine	Poletimber Well	60.5	55	81-110	N/A	The stand was harvested by removing all species but red and white pine in JPT White Pine, sale 73-002-94, which was completed in 1995. It now has a heavy understory of advanced regeneration.																																																			
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43	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	60.0	49	51-80	N/A	The terrain is hummocky, and the stand becomes wetter going south. The trees average 3 sticks tall on average. The diameter of the trees as well as the heights increase going east.																																																			
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44	6126 - Lowland Jack Pine	Sapling Medium	24.7	19	Immature	N/A	The stand was harvested as a clear-cut in 2002, in Arenac Double-Jack, sale 73-040-99. The stand was planted the same year. The survival rate was lower than desired. The main cause is wetness. The crown closure goes from 0 to 100%. The ground cover is mostly leather leaf with islands of sheep laurel. The terrain is hummocky, and it has a high-water table in the spring.																																							
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45	42200 - Natural White Pine	Poletimber Well	21.7	49	1-50	N/A	The stand is mainly white pine. There are canopy gaps caused by mortality or blow down. These areas have advance regeneration of oak and pine.																																							
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47	4310 - Pine, Oak Mix	Sapling Well	74.2	14	Immature	N/A	The stand was seed tree harvested in JPT Complex, sale 73-005-03. It was then clear cut in 2007. It was interplanted with red pine in 2009. The red pine is doing well in most of the stand. In many areas it is competing with the oak or it is free to grow. There are areas where it has become overtopped by aspen regeneration or oak stump sprouts.																																							
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48	623 - Emergent Wetland	Nonstocked	1.9		Immature	No	The stand is a depression that is mainly water and cattails.																																							
49	42220 - Natural Jack Pine	Sapling Well	2.3	26	Immature	N/A	The stand was harvested in M-76 Red Pine, sale 73-070-93. The harvest was completed in 1995.																																							
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50	42110 - Planted Red Pine	Sawtimber Well	46.6	67	111-140	N/A	The stand was thinned in M-76 Red Pine, sale 73-070-93. The harvest was completed in 1995. The stand was thinned again in the summer and fall of 2016, in Red Squirrel Pine, sale 73-003-15. The stand is doing well and should be ready to thin or clearcut and replant in the next inventory cycle.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
51	4126 - White, Black, N. Pin Oak	Sawtimber Well	4.5	67	51-80	N/A	The stand looks like it was left as a buffer along Forest Lake Subdivision.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Oak		20	Log/Pole	10		White Oak	
Black/Red (Hybrid) Oak		70	Log/Pole	11	67	Black/Red (Hybrid) Oak	
White Pine		10	Log/Pole	10		White Pine	
						Density	Avg. Height
						Low	10 - 20 feet
						Medium	10 - 20 feet
						Low	10 - 20 feet
							Size
							Sapling
							Sapling
							Sapling
52	42200 - Natural White Pine	Sawtimber Medium	5.4	94	1-50	N/A	The stand had the oak and maple removed about 22 years ago. Currently the stand has a sparse overstory of white pine log/pole with a thick under story of oak and cherry.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black/Red (Hybrid) Oak		10	Pole/Sap/Log	7		Black/Red (Hybrid) Oak	
White Pine		90	Log/Pole/XLog	12	94	White Pine	
						Density	Avg. Height
						Full	5 - 10 feet
						Medium	>20 feet
						Medium	10 - 20 feet
						Low	10 - 20 feet
							Size
							Sapling
							Sapling
							Sapling
53	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	4.7	65	51-80	N/A	This is a retention strip against the private line.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Pole/Sapling	7		Black/Red (Hybrid) Oak	
Bigtooth Aspen		10	Log/Pole	10		White Pine	
Black/Red (Hybrid) Oak		55	Pole/Log/Sap	9	65		
White Pine		10	Pole/Sap/Log	8			
Red Pine		20	Log/Pole	13			
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54	4310 - Pine, Oak Mix	Sawtimber Medium	8.8	94	51-80	N/A	There is some mortality in the jack pine overstory. The tree species are variable in density, size, and species composition.
Canopy Species		% Cover	Size Class	DBH	Age		
Black/Red (Hybrid) Oak		40	Log/Pole/XLog	14	94		
Jack Pine		35	Pole	8			
Red Pine		10	Log/Pole	12			
White Pine		10	Pole/Sapling	6			
Quaking Aspen		5	Pole	8			
55	42200 - Natural White Pine	Poletimber Well	47.1	53	81-110	N/A	This is a variable stand. It had a deer range improvement harvest in 1968. The oak ranges from saps to XL Logs. The aspen and the jack pine are now declining. About 50% of the jack pine and 25% of the aspen is dead.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		73	Pole/Log/XLog	8	53	White Pine	
Red Pine		8	Log/Pole	13			
Black/Red (Hybrid) Oak		4	Pole/Log	8			
Jack Pine		5	Pole/Log	8			
Quaking Aspen		8	Pole	6			
White Oak		2	Log/Pole	13			
						Density	Avg. Height
						Medium	Variable
							Size
							Sapling
56	500 - Water	Nonstocked	2.2			No	Rifle River



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
57	122 - Road/Parking Lot	Nonstocked	1.5			No	This stand is the parking lot for the boat ramp on the Rifle River.																																											
58	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	12.7	77	81-110	N/A	There is a lot of blow down in the stand. The crown closure goes from 10% up to 100%. There are inclusions of lowland shrubs which are in depressions on the upper slopes of the valley the Rifle River is in.																																											
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59	3102 - Grass	Nonstocked	3.8			No	The stand has less than 5% white pine cover. There are also some hardwood trees.																																											
60	4125 - Black, N. Pin Oak	Sapling Medium	12.5	9	Immature	N/A	The stand was shelterwood harvested in Berry Road Oak, sale 73-024-95. The harvest was completed in 1996. It was then clearcut in 2012, in 123 Oak, sale 73-018-10. The regeneration is variable in density. It goes from fully stocked at the north end, to poorly stocked in the middle, and back to medium stocked toward the south end. Many of the oak seedlings are right at 4 feet tall so they are just about to become established.																																											
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61	4130 - Aspen	Sapling Well	11.9	12	Immature	N/A	The stand was clearcut in the spring of 2009, in Moffat Bridge, sale 73-002-05. The regeneration has variable density. The west and north edges are fully stocked with aspen. Along the east edge it gets sparse. It looks like it was probably Aspen. However, beaver have taken out the aspen and it is now a low-density oak.																																											
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Paper Birch	4	Sapling	2																																															
62	6112 - Lowland Aspen	Sapling Poor	14.4	12	Immature	N/A	The stand was clearcut in the spring of 2009, in Moffat Bridge, sale 73-002-05. The portion of the stand that is between the power line and the private line was not cut. In addition, the drainage was not cut because it was too wet. The areas that were cut have come back to medium stocking.																																											
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Canopy Species	% Cover	Size Class	DBH	Age																																														
Red Maple	20	Pole/Sapling	6	80																																														
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Apple Rose	Medium	< 5 feet	Tall Shrub																																															
Choke Cherry	Low	< 5 feet	Sapling																																															
63	6225 - Bog	Nonstocked	23.9		Immature	No	The stand is mainly leather leaf with some scattered tamarack.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
64	6224 - Treed Bog	Nonstocked	4.3			No	The stand is approaching 25% crown closure. The main species is tamarack that varies in size from seedlings to poles.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tamarack	Medium	10 - 20 feet	Sapling	
								Leatherleaf	Full	< 5 feet	Tall Shrub	
65	3102 - Grass	Nonstocked	2.4			No	The stand is a flat high green field. It looks like the adjacent landowner may be cultivating this stand. It includes part of the utility clearing and a narrow strip of timber. The stand still looks like it has a trespass. The landowner has a fresh wire up. It does not appear to line up with the survey.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black/Red (Hybrid) Oak	Low		Pole	
								Red Maple	Low		Pole	
								Quaking Aspen	Low		Pole	
Paper Birch	Trace		Sapling									
66	110 - Low Intensity Urban	Nonstocked	11.2			No	This is Bunyak road which is improved gravel county and Maple Ridge Rd. which is paved.					
67	4131 - Aspen, Oak	Sapling Well	13.4	12	Immature	N/A	The stand was clearcut in the spring of 2009, in Moffat Bridge, sale 73-002-05. The stand has successfully regenerated, and it is quite dense. There is a thick layer of hybrid oak in the under story. The oak is dominant and pockets, but most of the stand is aspen.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	5	Sapling	2	
								Bigtooth Aspen	55	Sapling	2	12
								Black/Red (Hybrid) Oak	25	Sapling	2	12
								Choke Cherry	10	Sapling	2	
								White Oak	5	Sapling	2	
Sub-Canopy Species	Density	Avg. Height	Size									
Black/Red (Hybrid) Oak	High	5 - 10 feet	Sapling									
68	42110 - Planted Red Pine	Sawtimber Well	8.4	62	111-140	N/A	The stand was 3rd row thinned in 1997, in Maple Ridge Red Pine, sale 73-023-95. The stand was thinned again in the summer and fall of 2016, in Red Squirrel Pine, sale 73-003-15. The stand is a mix of red pine, aspen, and oak. The red pine is about 85% of the stand. The area also has a thick under story of oak and some scattered birch and white pine.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	8	Pole	8	62
								Red Pine	85	Log/Pole	12	62
								Black/Red (Hybrid) Oak	7	Log/Pole	12	62
Sub-Canopy Species	Density	Avg. Height	Size									
Black/Red (Hybrid) Oak	High	10 - 20 feet	Sapling									
69	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	5.4	23	Immature	N/A	The stand was harvested in Maple Ridge Aspen, sale 73-025-95. It was completed in 1998. The stand is a matrix of uplands and lowlands. The uplands make up about 55%. The regeneration has less aspen and more oak, white pine, and paper birch. It is a transition between upland aspen and swamp hardwoods.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	37	Sapling/Pole	3	23
								Paper Birch	8	Sapling	3	
								Quaking Aspen	6	Sapling	2	
								Bigtooth Aspen	9	Sapling	3	
								Black/Red (Hybrid) Oak	15	Sapling/Pole	4	
								Balsam Fir	2	Sapling/Pole	3	
Sub-Canopy Species	Density	Avg. Height	Size									
Serviceberry (Juneberry)	Low	10 - 20 feet	Sapling									
Choke Cherry	Low	5 - 10 feet	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
70	4131 - Aspen, Oak	Sapling Well	4.6	4	Immature	N/A	The stand was harvested in August 2017, in Wild Turkey Mix, sale 73-005-15. It has come back quite well. A lot of the oak regeneration is not established. It is quite dense, so it should become fully regenerated by the next inventory cycle.			
Canopy Species		% Cover	Size Class	DBH	Age					
Bigtooth Aspen		55	Sapling	1	4					
Black/Red (Hybrid) Oak		40	Sapling	1						
White Pine		5	Sapling	1						
71	42110 - Planted Red Pine	Sawtimber Well	5.9	62	111-140	N/A	The stand was 3rd row thinned in 1997, in Maple Ridge Red Pine, sale 73-023-95. The stand was thinned again in the summer and fall of 2016, in Red Squirrel Pine, sale 73-003-15. The stand has an average BA of 120. It has a fair understory of oak which is a mix of hybrid and white. There is some blowdown of the overstory red pine, but it is not bad.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		95	Log/Pole	13	62	Black/Red (Hybrid) Oak		Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		5	Pole/Log	8		White Oak		Low	5 - 10 feet	Sapling
72	4130 - Aspen	Sapling Well	16.8	23	Immature	N/A	The stand was harvested in Maple Ridge Aspen, sale 73-025-95. It was completed in 1998. The stand is just starting to transition into poles. The understory is heavy to oak and maple.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		80	Sapling/Pole	3	23	Red Maple		Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak		15	Sapling/Pole	3	23	Black/Red (Hybrid) Oak		High	10 - 20 feet	Sapling
Choke Cherry		5	Sapling/Pole	3		Choke Cherry	Medium	10 - 20 feet	Sapling	
73	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	8.2	77	81-110	N/A	The central portion of the stand is mainly tag alder. It appears to have water in the spring and is just muddy in the fall. The edges are a little bit dryer some of them could be treated with the adjacent stands or left.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		46	Pole/Sapling	7	77	Red Maple		Low	>20 feet	Sapling
Paper Birch		10	Sapling/Pole	4		Balsam Fir		Low	10 - 20 feet	Sapling
Quaking Aspen		16	Pole/Log/Sap	9		White Pine		Medium	10 - 20 feet	Sapling
White Pine		25	Pole/Log/Sap	9		Tag Alder		Medium	10 - 20 feet	Tall Shrub
Balsam Fir		3	Pole/Sapling	5						
74	4131 - Aspen, Oak	Poletimber Well	17.7	45	81-110	N/A	The stand is a nice mix of pole oak and aspen. It is heavy to oak with some white pine. The stand could be harvested early if necessary. There may be signs and a gate trespass along the north boundary of the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		4	Pole/Log	9		Red Maple		Low	10 - 20 feet	Sapling
Bigtooth Aspen		75	Pole/Log	8	45	Black/Red (Hybrid) Oak		High	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak		21	Pole/Log	9		White Pine		Low	5 - 10 feet	Sapling
						Black Cherry	Low	10 - 20 feet	Sapling	
75	6112 - Lowland Aspen	Poletimber Well	8.1	45	51-80	N/A	Most of the stand is too wet to harvest. There are some areas that are dry enough to harvest. These areas should be worked into stand 74 when it is set up. The area that can be harvested will have to be done during dry or frozen conditions. The stand is a transition between upland aspen and a cedar drain. The terrain is hummocky and the soil a little mucky.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Pole/Sapling	7		Black/Red (Hybrid) Oak		Low	10 - 20 feet	Sapling
Paper Birch		15	Pole/Sapling	5		Balsam Fir		Low	5 - 10 feet	Sapling
Quaking Aspen		65	Pole	8	45	White Pine		Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		8	Pole/Sapling	7						
White Pine		2	Pole/Log/Sap	9						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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76	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	12.0	77	51-80	N/A	The stand is a broad-based drain that is too wet to harvest. The north end of the stand has a heavier conifer component. The ash in the stand is gone. The understory is heavy to fir and maple..
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Red Maple					7	Pole/Sapling	5		Red Maple			Medium	>20 feet	Sapling	
Paper Birch					20	Sapling/Pole	4		Paper Birch			Medium	10 - 20 feet	Sapling	
Quaking Aspen					13	Pole	6		Balsam Fir			Medium	Variable	Sapling	
Balsam Fir					45	Pole/Sapling	7	77	White Pine			Low	10 - 20 feet	Sapling	
Northern White Cedar					10	Pole	7		Tag Alder			Low	10 - 20 feet	Tall Shrub	
White Pine					5	Pole/Sap/Log	8								

77	4130 - Aspen	Sapling Medium	9.3	4	Immature	N/A	The stand was harvested in September 2017, in Wild Turkey Mix, sale 73-005-15. Most of the residual trees have blown over. The density of the regeneration is variable going from fully to non-stocked. The crowned closure is approaching 75%.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	70	Sapling	1	4
Red Maple	20	Sapling	1	
Black/Red (Hybrid) Oak	6	Sapling/Pole	3	
Balsam Fir	4	Sapling	1	

78	4130 - Aspen	Poletimber Well	10.8	45	81-110	N/A	
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Red Maple					17	Pole/Sapling	6		Red Maple			Medium	>20 feet	Sapling	
Paper Birch					4	Pole/Sapling	5		Balsam Fir			Low	5 - 10 feet	Sapling	
Quaking Aspen					35	Pole/Sapling	7	45	White Pine			Low	5 - 10 feet	Sapling	
Black/Red (Hybrid) Oak					7	Pole/Log/Sap	8		Black Cherry			Low	10 - 20 feet	Sapling	
Balsam Fir					2	Pole/Sapling	5								
White Pine					7	Log/Pole	13								
Bigtooth Aspen					28	Pole	7	45							

79	4130 - Aspen	Poletimber Well	24.1	45	81-110	N/A	The stand does have some wind throw in it which is at the east end of the stand.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Bigtooth Aspen					75	Pole/Sapling	7	45	Red Maple			Medium	5 - 10 feet	Sapling	
Black/Red (Hybrid) Oak					10	Pole/Sapling	6		Black/Red (Hybrid) Oak			Medium	10 - 20 feet	Sapling	
White Pine					5	Log/Pole/Sap	15								
Black Cherry					8	Pole/Sapling	7								
Red Pine					2	Log	15								

80	3301 - Low Density Deciduous Trees	Nonstocked	1.1			No	The stand is low density tree. The major species in it is choke cherry. Other species are white pine and hybrid oak.
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
81	4310 - Pine, Oak Mix	Sapling Well	12.9	11	Immature	N/A	The stand was clearcut in the spring of 2009, in Moffat Bridge, sale 73-002-05. It was planted to red pine in May 2010. It has excellent seedling survival. The stand has a lot of volunteer jack pine. The overall regeneration in the stand is mixed. Along the south edge of the stand, it is dominated by oak and aspen. Along the north edge it is dominated by red and jack pine.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		30	Sapling	1	11			
Jack Pine		15	Sapling	2	12			
Bigtooth Aspen		20	Sapling	1				
Black/Red (Hybrid) Oak		25	Sapling	1				
Choke Cherry		10	Sapling	1				
82	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	10.8	11	Immature	N/A	The stand was clearcut in the spring of 2009, in Moffat Bridge, sale 73-002-05. It was planted to red pine in May 2010. There is excellent seedling survival. The stand has a lot of volunteer jack pine. The stand has a much higher concentration of pine than the cut stand to the north. The oak component is less. The aspen component is quaking. Overall, the stand is very dense.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		45	Sapling	2	11			
Jack Pine		30	Sapling	2				
Quaking Aspen		15	Sapling	2				
83	6113 - Lowland Maple	Poletimber Poor	7.0	86	1-50	N/A	The stand has significant wind throw. It is converting to a regeneration stand. At the current time it is still pole size swamp hardwoods. The regeneration is heavy to balsam fir. The crown closure is closer to 25%.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		62	Pole/Sap/Log	7	86			
Black/Red (Hybrid) Oak		5	Log/Pole	13				
Balsam Fir		20	Pole/Sapling	6				
White Pine		10	Log/Pole	10				
Northern White Cedar		3	Pole	6				
Sub-Canopy Species		Density	Avg. Height	Size				
Balsam Fir		Medium	Variable	Sapling				
Northern White Cedar		Low	>20 feet	Pole				
Tag Alder		High	10 - 20 feet	Tall Shrub				
84	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.8	86	51-80	N/A	The stand has some wind throw. The understory is thick to red maple. The ground is somewhat hummocky. Because of the stand's age. It should be harvested as a clear cut with retention. The retention should be in pockets.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		95	Log/Pole	12	86			
Quaking Aspen		3	Log/Pole	10				
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		High	>20 feet	Sapling				
Black Cherry		Low	>20 feet	Sapling				
85	4130 - Aspen	Sapling Medium	35.8	22	Immature	N/A	This stand is Maple Ridge Road plus some small clearings.	
Canopy Species		% Cover	Size Class	DBH	Age			
Bigtooth Aspen		60	Sapling	3	22			
Quaking Aspen		15	Sapling	3				
Red Maple		10	Sapling	2				
White Oak		5	Pole/Log/XLog	8				
White Pine		10	Sapling/Pole	4				
86	42110 - Planted Red Pine	Sawtimber Well	6.5	60	141-170	N/A	The stand was 3rd row thinned in 1997, in Maple Ridge Red Pine, sale 73-023-95. It was then thinned in the spring of 2009, in Moffat Bridge, sale 73-002-05. The stand is not ready to be cut again so hold it for another 10 years, currently there's not enough volume to be removed to warrant a harvest.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		100	Log/Pole	12	60			
Sub-Canopy Species		Density	Avg. Height	Size				
Black/Red (Hybrid) Oak		Low	5 - 10 feet	Sapling				
White Pine		Low	5 - 10 feet	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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87 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Medium 34.4 77 51-80 N/A

The main part of the stand is a broad sloping valley with a creek running through the center. The upper slopes, next to the pine stands, are high and dry and could be treated. The middle ground has numerous seeps and springs making it difficult to manage. Next to the creek the ground is too wet to harvest. The ash in the stand is gone. Currently the crown closure is closer to 50%.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Pole/Log/Sap	8	77	Red Maple	Medium	10 - 20 feet	Sapling
Paper Birch	8	Pole/Log	9		Black/Red (Hybrid) Oak	Low	>20 feet	Sapling
Quaking Aspen	16	Log/Pole	12		White Pine	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	3	Log/Pole	12		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole/Log/Sap	8					
Northern White Cedar	4	Log/Pole	11					
Tamarack	2	Pole	8					
White Pine	10	Log/Pole	13					

88 42110 - Planted Red Pine Sawtimber Well 64.5 60 141-170 N/A

The stand was 3rd row thinned in 1997, in Maple Ridge Red Pine, sale 73-023-95. The stand was thinned in the spring of 2009, in Moffat Bridge, sale 73-002-05. There are more hardwood logs and saps at the west end. The average BA is around 160.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	90	Log/Pole	13	60	Black/Red (Hybrid) Oak	High	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	5	Log	14		White Oak	Medium	5 - 10 feet	Sapling
White Oak	3	Log	13		White Pine	Low	5 - 10 feet	Sapling
Red Maple	2	Log	14		Beech	Trace	5 - 10 feet	Sapling

89 4191 - Mixed Upland Deciduous with Conifer Sawtimber Poor 3.9 86 51-80 N/A

The center of the stand has wind thrown. The crown closure goes from less than 25% to 100% depending on where you are in the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	43	Log/Pole	11	86	Red Maple	Low	>20 feet	Sapling
Bigtooth Aspen	5	Pole/Log	9		Black/Red (Hybrid) Oak	Low	>20 feet	Sapling
Black/Red (Hybrid) Oak	15	Log/Pole	12		White Pine	Low	5 - 10 feet	Sapling
White Pine	35	Log/Pole	13	86				
Red Pine	2	Log/Pole	12					

90 6112 - Lowland Aspen Poletimber Well 68.5 29 Immature N/A

The stand was harvested in 1992, in Maple Ridge, sale 73-050-86. It is bisected by a creek. It is a mix of aspen, birch, white pine and scattered cedar, hemlock. The bigtooth aspen is on the upper slopes, the birch and trembling aspen is closer to the creek along with the white pine and hemlock. Birch is also concentrated in areas where the groundwater is near the surface. The stand is about a 50-50 mix of uplands to lowlands.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling/Pole	4		Red Maple	Low	>20 feet	Sapling
Paper Birch	13	Sapling	3	29	Tag Alder	Low	10 - 20 feet	Tall Shrub
Quaking Aspen	35	Pole/Sapling	5	29				
Black/Red (Hybrid) Oak	2	Sapling/Pole	4					
White Pine	5	Pole/Sap/Log	7					
Bigtooth Aspen	40	Pole/Sapling	5	29				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
91	4130 - Aspen	Sapling Well	10.3	23	Immature	N/A	The stand was harvested in Berry Road Oak, sale 73-024-95. The sale was completed in 1996. The stand is mainly trembling aspen. There is a residual of oak and white pine in the overstory. The oak that is in the understory is doing okay. It is at a medium to low stocking.																																												
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92	4125 - Black, N. Pin Oak	Sapling Medium	86.7	9	1-50	N/A	The stand was shelterwood harvested in Berry Road Oak, sale 73-024-95. The sale was completed in 1996. It was clearcut in 2012, in 123 Oak, sale 73-018-10. It has regenerated enough to be classified as forested. The yellow line along the edge of the stand indicates that it may be a separate cutting unit that had a 4-inch cutting spec. The advanced oak regeneration is from the 1998 shelterwood harvest. There are scattered supercanopy oak and pole sized white pine which were kept for retention. The stand has filled in nicely. There are still some areas that are sparse. Overall, the crowned closure is around 70%.																																												
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93	6229 - Mixed lowland shrub	Nonstocked	5.1	0		No	The stand is a depression in stand 265. The ash that was in the overstory is now gone and the area has converted to lowland shrubs. There may have been some past beaver activity that contributed to the conversion.																																												
94	3105 - Mixed Upland Herbaceous	Nonstocked	75.7		Immature	4211 - Planted Red Pine	The stand was shelterwood harvested in Berry Road Oak, sale 73-024-95. The sale was completed in 1996. The stand was then clearcut in 2012 in 123 Oak, sale 73-018-10. This portion of the sale was planted to red pine. The survival is fair. Currently there is 10 to 20% mortality in the seedlings. Many of the seedlings, about another 5 to 10%, have tip burn. This is expected to result in more mortality next growing season. The damage looks to be chemical in nature.																																												
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95	4130 - Aspen	Sapling Well	11.8	23	Immature	N/A	The stand was harvested in Berry Road Oak, sale 73-024-95. The sale was completed in 1996. The aspen is now overtopped the oak. The stand has scattered saw log oak at the south end.																																												
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96	4199 - Other Mixed Upland Deciduous	Sawtimber Well	12.9	57	111-140	N/A	SI 65 (Site Spp. Red Oak). The stand is a nice one that looks like it wants to move to a red maple dominated northern hardwoods. There are scattered sugar maples in the stand.																																																												
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97	4125 - Black, N. Pin Oak	Poletimber Well	13.0	49	51-80	N/A	The kotar habitat type is PVCd. The stand is dense. There are some openings in it but not many. There is also some mortality, but it is not significant, at the current time.																																																												
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98	3104 - Degraded	Nonstocked	0.1		Immature	No	The stand was a test well; the permit was 18074. It was plugged 10/27/1958. The site is artificially raised above the grade of stand 332.																																																												
99	4125 - Black, N. Pin Oak	Poletimber Medium	42.4	49	51-80	N/A	The kotar habitat type is PVCd, ground cover is dense sedge. The stand could be harvested. However, hold the stand to shift it to oak. If it is harvested now it is not expected to regenerate. Therefore, if it were harvested it would need to be site prep, trenched, and planted to red pine.																																																												
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100	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	9.6	85	141-170	N/A	The stand is a broad swale that is wet through much of the year. However, in the fall it is pretty much dry. The tree form suggests that the water table is close to the surface in the central portion. The stand makes a good travel corridor, so do not treat.																																																												
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101	330 - Low-Density Trees	Nonstocked	0.7		Immature	No	Test well plugged in 10/27/1958																																																												



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102	4131 - Aspen, Oak	Poletimber Well	10.0	49	111-140	N/A	The stand could be harvested but hold for 10 years to let the oak become established. It should be move to oak. The stand is a ridge and is better suited to hybrid oak or pine. If harvested it will need to be site prep, trenched, and planted to red pine.																																										
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103	4130 - Aspen	Poletimber Well	66.0	49	111-140	N/A	The stand is coming along quite well. The stand does have a couple of wind throw pockets.																																										
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104	4121 - Oak, Aspen	Poletimber Well	15.8	49	81-110	N/A	The stand is slightly higher than the aspen stand that goes around it. The elevation is only 6 to 10 inches higher. The oak is mainly pole size. There are also a few saw logs. It could be held for another 10 years or the aspen could be cut out of the stand.																																										
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105	4199 - Other Mixed Upland Deciduous	Sapling Well	5.6	25	Immature	N/A	The stand was harvested in Berry Road Oak, sale 73-024-95. It was completed in 1996. The oak in the stand has become the dominant cover type. The aspen that is present is in pockets. The understory is thick with oak.																																										
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106	4125 - Black, N. Pin Oak	Sapling Well	8.0	9	Immature	N/A	The stand was shelterwood harvested in Berry Road Oak, sale 73-024-95. It was completed in 1996. The stand was then clearcut in 2012, in 123 Oak, sale 73-018-10. It has filled in nicely. It is now fully stocked. The regeneration is small, less than 1-inch in diameter. There are some overstory white pines and oaks. There is also a trace of beech.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
107	4131 - Aspen, Oak	Poletimber Well	13.7	45	81-110	N/A	The stand is mostly uplands. The lowlands are along the stand to the south. There is extensive off-road use. Right now, the use is mainly snowmobiling. However, there's evidence of quads use as well. There is also scots pine along the private line.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		7	Pole/Sapling	7		Red Maple		
Paper Birch		5	Pole/Sapling	7		Northern Pin Oak		
Quaking Aspen		10	Pole	8		White Pine		
Bigtooth Aspen		51	Pole	8	45			
Northern Pin Oak		21	Pole/Log/Sap	8				
White Pine		6	Log/Pole	12				
108	6229 - Mixed lowland shrub	Nonstocked	8.8		Immature	No	The crown closure is variable. The terrain is hummocky. The ash in the stand is gone. The predominant species are quaking aspen, hybrid oak, and white pine. Overall, the crown closure is just below 25%. Therefore, it has been classified as a lowland shrub type even though there are island of dense trees.	
109	4130 - Aspen	Poletimber Well	12.0	45	81-110	N/A	Much of the stand is uplands. The lowlands make up about 40%.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		25	Pole/Sapling	6		Red Maple		
Quaking Aspen		50	Pole	8	45	Northern Pin Oak		
Bigtooth Aspen		20	Pole	8				
Northern Pin Oak		5	Pole/Sapling	7				
110	629 - Mixed non-forested wetland	Nonstocked	1.9			No	The stand is a depression of marsh grass and lowland shrubs. The stand does have some trees along the edges.	
111	6220 - Alder/willow	Nonstocked	4.0		Immature	No	The stand is thick tag alder and holly. There are some scattered maples. The ash component that was in the stand is gone.	
Sub-Canopy Species		Density	Avg. Height	Size				
Paper Birch		Low		Sapling				
Tag Alder		High		Tall Shrub				
Red Maple		Low		Sapling				
112	6112 - Lowland Aspen	Poletimber Well	8.2	45	51-80	N/A	The ash in the stand is down. There are wet drains that cuts along the south and north side of the stand. Those areas are lowland shrubs. These areas are narrow. The ground cover varies from blueberry to sensitive fern.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		20	Pole/Sapling	7		Red Maple		
Paper Birch		5	Pole/Sapling	5		Paper Birch		
Quaking Aspen		75	Pole	8	45	Tag Alder		
						Low		
						10 - 20 feet		
						Tall Shrub		
113	6229 - Mixed lowland shrub	Nonstocked	3.5		Immature	No	Much of the overstory has come down. The stand is a broad base drain that is too wet to harvest. Some areas of the stand are lowland shrubs and other areas have a crown closure slightly over 25%. However, the average crown closure is below 25%.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
114	4130 - Aspen	Poletimber Well	13.1	45	81-110	N/A	The terrain is hummocky. The diameter of the trees is on the smaller size considering the stand age is 45 years old. The wet ground is located along the drainages that border the stand.																																						
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115	6112 - Lowland Aspen	Poletimber Well	6.1	45	81-110	N/A	The terrain is hummocky. The stand looks like it's manageable and not too wet.																																						
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116	6229 - Mixed lowland shrub	Nonstocked	6.0		Immature	No	The ash in the drainage is dead and down. There is still some maple and quaking aspen, but the crowned closure is now less than 25%. If it were an upland, it would be call it a low-density tree.																																						
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117	6112 - Lowland Aspen	Poletimber Well	8.8	45	1-50	N/A	The terrain is hummocky. Most of the stand is wet. Only about 25 to 30% of the stand is upland. The diameter of the trees is not that great considering the stand is 45 years old. The stand should probably be moved to maple. Therefore, hold the stand and don't cut it this entry.																																						
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118	4311 - Pine, Aspen Mix	Poletimber Medium	3.7	45	1-50	N/A	The stand looks like it had some form of disturbance. It is not clear which type it was. The density and size of the trees is extremely variable going from saplings up to logs. Most are in the sapling to small poles in size. The terrain is a little hummocky, but it looks dry. The dilapidated shed that was recorded last year of entry is now down on the ground.																																						
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119	4131 - Aspen, Oak	Poletimber Well	8.8	45	81-110	N/A	The terrain is hummocky. The stand has a thick under story of red maple. The aspen is small poles which could be harvested, or it could be held for 10 years. The private line needs to be run to establish whether there is a trespass or not.																																																
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120	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	7.5	45	1-50	N/A	The terrain is hummocky. It looks like they are mainly from tip-up mounds from the old white pine stand. The ground cover is variable it goes from leather leaf up to bracken fern. The uplands make up about 55% of the stand. The stand is treatable.																																																
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121	6126 - Lowland Jack Pine	Poletimber Medium	7.7	37	51-80	N/A	The terrain is hummocky. The ground is about 40% uplands. The jack pine is doing okay. It could be treated. However, it is small poles right now. It is best to hold for 10 years then harvest.																																																
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122	6229 - Mixed lowland shrub	Nonstocked	2.7		Immature	No	This stand is a depression that was harvested in 1990, in Arenac Grand, sale 73-005-88. It did not regenerate. It is now lowland shrubs with scattered birch.																																																
123	6224 - Treed Bog	Nonstocked	13.5			No	The crown closure is around 25%. This stand could be counted as forested or not. The crown closure goes from 0 to 50%. However, the overall crown closure is just a little below 25%.																																																
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124	3104 - Degraded	Nonstocked	0.5		Immature		There is an old oil well road that crosses the stand. The oil well permit was 25287. The stand was artificially raised above the surrounding stand.																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
125	42220 - Natural Jack Pine	Sapling Medium	23.7	16	Immature	N/A	The stand was harvested in 2005, in Forest Lake Mix, sale 73-001-05. The crown closure goes from 100% along the two-track down to around 50% near the lowland shrub type. The terrain is hummocky, and the ground cover is heavy to sheep laurel.																																						
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126	42200 - Natural White Pine	Sawtimber Medium	5.4	74	111-140	N/A	The stand is mainly uplands which make up about 50 to 60%. The lowlands are along the edges of the lowland shrub type and the lowland jack pine stands adjacent to this stand. There is a good under story of white pine growing into the stand. This has increased the crown closure to be just below 75%. The terrain is a little hummocky.																																						
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127	629 - Mixed non-forested wetland	Nonstocked	2.6			No	The stand is mainly lowland shrubs over water. There are some trees along the perimeter.																																						
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128	42290 - Natural Mixed Pine	Sapling Well	11.1	16	Immature	N/A	The stand was clearcut in 2005, in sale Forest Lake Mix, sale 73-001-05. Red pine was planted in 2007 under FTP C73-774. The stand has regenerated well with excellent red pine survival. It has also filled in nicely with the natural jack pine. Therefore, the density is very good. The heavy snow has caused some stem breakage in the jack pine especially at galls.																																						
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129	3104 - Degraded	Nonstocked	1.4			No	The stand is an old oil well pad, permit 13651. The area was raised above the grade of the surrounding stand.																																						
130	42220 - Natural Jack Pine	Sapling Well	36.7	16	Immature	N/A	The stand was harvested in 2005, in Forest Lake Mix, sale 73-001-05. The terrain is hummocky, and the ground cover is heavy to sheep laurel. The overall crown closure is a little over 75%. There are some openings. The amount of gall rust is moderate.																																						
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131	3104 - Degraded	Nonstocked	1.4	0			Oil Well Site, plugged 5/28/2009, permit 23540																																						
132	3104 - Degraded	Nonstocked	0.6		Immature		This is an opening associated with Rayburn Oil company, Permit 12328																																						



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133	4310 - Pine, Oak Mix	Sapling Well	22.3	22	Immature	N/A	The stand was harvested in Forest Lake Sub, sale 73-034-95. Most of the oak regeneration is stump sprout. The stand has a good density throughout. The Kotar habitat type is PVCd.																																																																								
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134	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	17.0	48	1-50	N/A	The stand is a drainage that has a variable density. The crown closure goes from around 80% down to 0%. There are areas of beaver activity. The stand is too wet to harvest.																																																																								
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135	3104 - Degraded	Nonstocked	0.4		Immature		This is an opening associated with Rayburn Oil company.																																																																								
136	4125 - Black, N. Pin Oak	Sapling Medium	65.1	12	1-50	N/A	The stand was shelterwood harvested in the spring of 2009, in Moffat Bridge, sale 73-002-05. The stand was cut again in January 2019, in Wild Turkey Mix, sale 73-005-15. The regeneration is better than from the 2009 harvest. However, most of the oak regeneration is less than 4 ft tall. Therefore, it is not established. We'll have to put on a check regeneration in about 4 years.																																																																								
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Black/Red (Hybrid) Oak	3	Log	12																																																																												
137	6114 - Lowland Oak	Poletimber Medium	6.2	98	1-50	N/A	There is significant mortality in the overstory in the oak and jack pine. White pine is coming up in the understory in most of the stand. The ground cover is sheep laurel going to leather leaf as there is a drainage through the center of the stand. Factor Limit the stand as visual buffer, blocked by physical obstacle, and too wet. It is adjacent to a subdivision. The ground cover is leatherleaf/blueberry. The stand has around 40% upland, but much of the uplands is between a wet drainage and the private line.																																																																								
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138	42250 - Pine, Oak	Sapling Well	18.0	22	Immature	N/A	The Kotar habitat is PVCd. The stand has filled in well as the crowns of the jack pine have enlarged. The jack pine is more common at the north end and oak becomes more common heading south.																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
139	4310 - Pine, Oak Mix	Sapling Well	6.6	22	Immature	N/A	The stand was harvested in Forest Lake Sub, sale 73-034-95. It is an even mix of oak and pine. There is also a significant understory of suppressed oak.																																																						
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140	4122 - Oak, Pine	Poletimber Well	9.9	24	1-50	N/A	The stand was harvested in Forest Lake Sub, sale 73-034-95. It has a significant amount of residual white pine. The oak is coming in well in the understory and in the openings.																																																						
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141	42220 - Natural Jack Pine	Sapling Well	17.6	22	Immature	N/A	The stand was harvested in Forest Lake Sub, sale 73-034-95. The Kotar habitat is PVCd.																																																						
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Jack Pine	63	Sapling/Pole	3	22																																																									
Red Pine	2	Pole	5																																																										
142	42290 - Natural Mixed Pine	Poletimber Well	6.0	43	1-50	N/A	The stand was harvested in Forest Lake Sub, sale 73-034-95. The white pine is still the dominant species though there is a significant understory of oak mixed with jack pine and white pine.																																																						
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Jack Pine	20	Sapling/Pole	3	22																																																									
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143	4125 - Black, N. Pin Oak	Sapling Well	15.7	23	1-50	N/A	The stand was clearcut retaining all red and white pine in Forest Lake Sub, sale 73-034-95. The harvest was completed in 1997. The stand has filled in very well with the oak coming up in the openings between the white pines.																																																						
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144	42220 - Natural Jack Pine	Poletimber Medium	35.4	45	51-80	N/A	The stand looks pretty good. Hold the stand for another 10 years. Then come in and cut the jack pine and aspen. The jack pine is a little on the small side and it is not quite at rotation age. The Kotar habitat type is PVCd.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
145	6113 - Lowland Maple	Sawtimber Medium	10.3	75	81-110	N/A	The stand has significant log size maple in the overstory. The ash that was in the stand is on the ground. The aspen is declining and much of it is in poor shape. The stand is mostly lowland but manageable.																																									
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146	3104 - Degraded	Nonstocked	0.3		Immature		This stand is an area of ORV damage. It is mostly open sand.																																									
147	4310 - Pine, Oak Mix	Sawtimber Poor	25.2	98	51-80	N/A	The stand was shelterwood harvested in Forest Lake Sub, sale 73-034-95. The harvest was completed in 1999. It was harvested again as a clear cut in Wild Turkey Mix, sale 73-005-15 in 2017. The oak regeneration is present but much of it is not established.																																									
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148	4125 - Black, N. Pin Oak	Poletimber Medium	16.5	45	51-80	N/A	The stand was harvested in 2005, in Forest Lake Mix, sale 73-001-05. The crown closure goes from 100% along the two-track down to around 50% near the lowland shrub type. The terrain is hummocky, and the ground cover is heavy to sheep laurel. The site index is between 50 to 55. The Kotar habitat is PVCd.																																									
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149	4310 - Pine, Oak Mix	Sapling Well	27.5	13	Immature	N/A	The stand was harvested in 2005, in Forest Lake Mix, sale 73-001-05. It was planted with red pine in 2007 with FTP C73-774. The planted red pine is doing well in the areas where the crown is more open. In the areas of heavy oak regeneration, it is suppressed. The jack pine has volunteered throughout the stand it is about the same height as the red pine in the open areas.																																									
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151	6225 - Bog	Nonstocked	5.0			No	The stand is a low depression that drains to the west. The ground cover is heavy to leather leaf.																																									
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153	3104 - Degraded	Nonstocked	0.3		Immature		This is an opening associated with Rayburn Oil company, permit 12219																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
154	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	7.5	15	Immature	N/A	The stand was harvested in 2005 in Forest Lake Mix 73-001-05. The regeneration is sparse, but it is seeding in with jack pine and oak. The terrain is hummocky, and the ground cover is heavy to sheep laurel. The stand looks like it will eventually become a medium stocked stand.																																														
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155	4125 - Black, N. Pin Oak	Sapling Well	4.9	16	Immature	N/A	The stand was harvested in 2005, in Forest Lake Mix, sale 73-001-05. The crown closure is just over 75% in most of the stand. The terrain is hummocky. The stand looks like it received significant rutting when it was harvested.																																														
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156	4199 - Other Mixed Upland Deciduous	Poletimber Well	9.2	45	1-50	N/A	The terrain is hummocky and it's about 55% uplands and 45% lowlands. The lower areas are heavier to paper birch and maple. The upland areas are heavier to oak and pine with some maple.																																														
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157	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	16.4	45	1-50	N/A	The edges of the stand have a crown closure of 75%. However, there are large areas where the crown closure is less than 25%. The stand is a transition from a wetland system to an upland one.																																														
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158	6220 - Alder/willow	Nonstocked	24.0			No	The stand is mainly alder and willow with some pockets of leather leaf through the center.																																														
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161	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	0.6	90	1-50	N/A	well site permit 12022 plugged 8/28/1962																																														
163	6229 - Mixed lowland shrub	Nonstocked	1.5			No	The stand is mainly lowland shrubs. However, it has some areas that are open and heavy to marsh grass.																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
164	4310 - Pine, Oak Mix	Sawtimber Well	14.4	75	81-110	N/A	The stand is a little variable. There are areas that are heavy to log size oak and other areas that are pulp size maple, aspen, and oak. The terrain is hummocky. There are also inclusions of wet ground. However, it is mostly uplands.																																																				
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165	42290 - Natural Mixed Pine	Sawtimber Well	8.5	66	81-110	N/A	The stand is a mix of uplands and lowlands. The uplands make up about 80% of the stand. The lowlands are along the edges. The stand is somewhat hummocky but not bad. The stand goes from white pine and red pine at the north end to jack pine, white pine, and oak toward the south end																																																				
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166	6112 - Lowland Aspen	Poletimber Well	9.6	45	81-110	N/A	The terrain is hummocky. The stand looks to be about 60% lowlands.																																																				
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Northern Pin Oak	Low	>20 feet	Sapling																																																								
167	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	10.0	10	Immature	N/A	The stand was clearcut in spring of 2009, in Moffat Bridge, sale 73-002-05. It was planted to red pine in May 2010. The stand density is less than stand 169 at least when it comes to the planted red pine. This stand has a lot of volunteer white pine, jack pine, oak, and aspen in it. The red pine is still the dominant species and it will become a red pine stand in the future																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
168	4130 - Aspen	Sapling Well	4.0	11	Immature	N/A	The terrain is hummocky. There is a drain bisecting the stand. In the lower areas the species mix is paper birch and quaking aspen. The white pine logs in the stand are the residual from the harvest. The stand was clearcut in spring of 2009, in Moffat Bridge, sale 73-002-05.																																										
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169	42110 - Planted Red Pine	Sapling Medium	4.9	10	Immature	N/A	The stand was clearcut in spring of 2009, in Moffat Bridge, sale 73-002-05. It was planted with red pine in May 2010. The crown closure goes from about 90% down to 60% going from north to south. Along the road the white pine regeneration is very dense.																																										
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170	42200 - Natural White Pine	Poletimber Medium	40.2	88	1-50	N/A	The stand was shelterwood-seed harvest retaining 30-40 BA. It was cut in March 2010, in sale 73-005-07, Kleiner Oasis. The understory goes from white pine/oak at the north end to oak/aspen at the south end. The crown closure goes from 75% at the north end down to around 50% at the south end.																																										
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171	42290 - Natural Mixed Pine	Poletimber Well	10.4	64	81-110	N/A	The stand was cut in March 2008, in sale 73-005-07, Kleiner Oasis. Most of the stand had the hardwood removed. The south edge still has some very old aspen that needs to be cut. The stand is predominantly pole white pine with scattered red pine																																										
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172	6229 - Mixed lowland shrub	Nonstocked	2.1	0		No	This stand is a depression that is mainly tag alder, willow, and holly.																																										
173	4130 - Aspen	Sapling Well	45.2	10	Immature	N/A	The stand was harvested in 2011, in Sterling Canyons, sale 73-011-07. It has come in very nicely. The only area where the crown closure is less than 75% is at the north end, along the two-track, that was used to harvest the timber. The under story is heavy to witch hazel toward the south and sweet fern and blackberry towards the north.																																										
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174	4130 - Aspen	Sawtimber Well	16.8	64	81-110	N/A	The stand is well into poles and is doing well. The aspen is starting to show signs of decline.																																												
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175	42200 - Natural White Pine	Poletimber Well	1.7	77	111-140	N/A	The stand was harvested by removing the large white pine and some other marked species. This part is on the property leased to the State Police for a radio tower.																																												
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176	4130 - Aspen	Sapling Well	11.3	21	Immature	N/A	The stand was harvested in Bear Creek Tower, sale 73-010-99. It was completed in the spring of 1999. It was harvested just before the land was leased to the state police for their radio tower.																																												
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177	3102 - Grass	Nonstocked	3.4		Immature		This is a radio tower site.																																												
178	4130 - Aspen	Poletimber Well	1.4	64	81-110	N/A	The stand is well into poles and is doing well. This stand is on the property leased to the State Police for a 800 MHz radio tower.																																												
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White Pine	Low	10 - 20 feet	Sapling																																																
179	4131 - Aspen, Oak	Sapling Well	47.6	10	Immature	N/A	The stand was harvested in 2011, in Sterling Canyons, sale 73-011-07. The site appears to be a richer site with a kotar habitat classification of PARV/b. There is some mortality in the oak residual. The crown closure is variable going from 40-100%. The areas of low density are concentrated in the south east portion of the stand. The terrain is undulating and some of the lower areas are wet.																																												
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180	6229 - Mixed lowland shrub	Nonstocked	5.3	0		No	The stand is a low area that is heavy to tag alder and willow with scattered swamp hardwoods.																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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181 4130 - Aspen Poletimber Well 92.4 32 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	50	Pole/Sapling	6	32	White Pine	Medium	Variable	Sapling
Quaking Aspen	20	Pole/Sapling	6		Red Maple	Medium	Variable	Sapling
Paper Birch	20	Sapling/Pole	3		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	5	Sapling/Pole	3		White Oak	Low	5 - 10 feet	Sapling
White Oak	3	Sapling/Pole	3					
White Pine	2	Sapling/Pole	4					

The stand was harvested in 1990, in Arenac Grand, sale 73-005-88. It is mainly poles, and it is doing well. The stand is undulating and is well stocked except for the lowest depressions between the ridges. There are some drainages that cut through the stand. However, they have no defined bed or bank. There are pockets of birch in some of the wetter areas. There is also a trace of live white ash. Some of the lower areas were rutted when it was harvested.

182 6113 - Lowland Maple Poletimber Poor 7.5 77 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	85	Pole/Log/Sap	8	77	Musclewood/Hornbeam	High	5 - 10 feet	Sapling
White Pine	15	Log/Pole/XLog	12		Red Maple	High	5 - 10 feet	Sapling

The ash in the stand is gone. This has opened the crown closure to be around 50%. There's lots of down wood. The stand is wet in the spring but looks like it will dry out in late summer.

183 4131 - Aspen, Oak Poletimber Well 39.4 32 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	35	Sapling/Pole	4	32
Quaking Aspen	25	Pole/Sapling	5	
Black/Red (Hybrid) Oak	18	Sapling/Pole	4	
White Oak	2	Sapling/Pole	4	
Red Maple	10	Sapling/Pole	4	
White Pine	5	Pole/Sapling	5	
Paper Birch	5	Sapling	3	

The stand was harvested in 1990, in Arenac Grand, sale 73-005-88. It is a mix of ridges, swales, and depressions. The uplands could be harvested any time. However, there areas that are too wet to harvest. Overall, the stand is doing well. It is going through a natural thinning process right now.

184 6229 - Mixed lowland shrub Nonstocked 2.0 Immature No

The stand is a lowland shrub of mainly willow brush with very little tag alder and lots of water.

185 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 14.7 69 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	30	Log/Pole/XLog	10		White Pine	Low	Variable	Sapling
Red Maple	50	Pole/Log/XLog	9	69	Red Oak	Low	Variable	Sapling
Paper Birch	9	Pole/Sapling	7		White Oak	Low	Variable	Sapling
Red Oak	2	Log/XLog/Pole	12		Paper Birch	Low	Variable	Sapling
White Oak	1	Log/XLog/Pole	12		Red Maple	High	Variable	Sapling
Red Pine	3	Log/XLog	14					

The stand is hummocky with pockets of standing water that are too wet to harvest. The lowlands to uplands are around a 50-50 mix. The stand could either be classified as a swamp hardwood or upland red maple. It could also be treated but hold until the maple is 80-years old.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
186	4130 - Aspen	Sapling Well	6.4	10	Immature	N/A	The stand was harvested in 2011, in Sterling Canyons, sale 73-011-07. It is mainly on a ridge that has moderate slopes.																																																															
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187	4130 - Aspen	Sawtimber Well	15.4	69	111-140	N/A	The stand is variable and has pockets of sawlog trees, pockets of poles and saplings, and pockets of lowland shrubs. The ground is hummocky. In general, the stand grades from more maple in the east to more aspen in the west.																																																															
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188	629 - Mixed non-forested wetland	Nonstocked	13.5		Immature	No	The stand is a nice marsh with a good mix of open water, grasses, cattails, and areas of brush. It looks like it is dryer now than it was in the past.																																																															
189	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	48.9	73	81-110	N/A	The stand is very hummocky with pockets of standing water. The trees are variable going from high quality to very low quality. There is a thick under story of maple mixed with oak.																																																															
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190	4130 - Aspen	Sapling Poor	5.2	10	Immature	N/A	The stand was harvested in 2011, in Sterling Canyons, sale 73-011-07. Much of the stand is now an open goldenrod field. The aspen is in clones. The crown closure is around 25%. There are pockets of standing water in the spring.																																																															
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191	6113 - Lowland Maple	Poletimber Medium	5.3	99	111-140	N/A	It looks like the soil has a higher percentage of fines in it to help retain water. The soil is hummocky. The north end of the stand has a pocket that is very wet. The trees located there have smaller diameters. The uplands are confined to isolated small knobs. The ash that was in the stand is now gone. The understory is now the featured stand.																																																															
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192	4130 - Aspen	Sapling Well	27.0	10	Immature	N/A	The stand was harvested in 2011, in Sterling Canyons, sale 73-011-07. The stand does have a drainage that is in a draw. The regeneration has come in well. There are some sparse areas that look to have been skid trails or landings.																																																
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195	4130 - Aspen	Poletimber Well	35.9	31	Immature	N/A	The stand was harvested in 1990, in Arenac Grand, sale 73-005-88. It is a little hilly but not too bad. It is a nice pole stand. However, it is on the smaller side when compared to other 30-year-old stands in the compartment. The soil appears to have a higher percentage of fines. Therefore, water is often perched at the surface for a time after any significant rain.																																																
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196	4139 - Aspen, Mixed Deciduous	Sawtimber Medium	21.5	77	81-110	N/A	The stand was not harvested when stand 194 was. The sale was Sterling Canyons. The stand is in a ravine. The bottom is quite wet, and the side slopes are very steep. Overall, it is unmanageable. There is also a lot of blow down along the base of the ravine. All the ash in the stand is dead, except for a few small ash poles that are still alive.																																																
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197	6113 - Lowland Maple	Poletimber Medium	43.2	80	1-50	N/A	The stand was harvested in October 2008, in sale 73-005-07, Kleiner Oasis. The ash in the stand is gone. It has now converted to maple. The terrain is hummocky and wet. Portions of the stand are too wet to harvest.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
198	6225 - Bog	Nonstocked	1.5		Immature	No	This is a depression of leather leaf.																																										
199	629 - Mixed non-forested wetland	Nonstocked	5.1		Immature	No	This stand is a set of depressions. The edges are lowland shrubs, and the centers are more like a marsh. The stand appears to have been made up of two beaver floodings that are no longer active. There are still pockets of water, but it is not as extensive as it was in the past.																																										
200	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	10.5	80	81-110	N/A	This stand is made up of very steep ravines that feed into the Parmalee Creek to the east. The aspen that is left is located along the south side. Most of the stand is now red pine, white pine, and maple. Overall, it is too steep to harvest and any harvest besides a highline system would cause significant erosion.																																										
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201	4133 - Aspen, Mixed Pine	Poletimber Well	18.6	32	1-50	N/A	The stand was harvested in 1990, in Arenac Grand, sale 73-005-88. In the harvest it looks like the pine was retained. The stand diameter is a little smaller than some of the other 30-year-old stands. It is just moving into poles. The stand has several drains and depressions in it.																																										
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202	6224 - Treed Bog	Nonstocked	3.5		Immature	No	This stand is in a depression that is heavy to leather leaf. It has around 15% crown closure of white pine along the perimeter and scattered pine in the rest of the stand.																																										
203	6113 - Lowland Maple	Sawtimber Medium	2.0	90	51-80	N/A	The ash in the stand is gone. What's left is maple and white pine. The terrain is hummocky and wet. It has a heavy understorey of white pine that goes from 1 inch. up to poles. There is a trace of hemlock. The stand is a low wet depression along a drainage. It has a high-water table, and it suffers from a fair amount of wind throw. It is too wet to harvest.																																										
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204	730 - Mud Flats	Nonstocked	5.7		Immature	No	This stand was a beaver flooding. It appears that the dam has gone out recently. It is now more of a mud flat fringed by lowland shrubs. There is no evidence of plant growth in the stand when it was observed during inventory. It is expected to fill in with some plants unless the beaver reestablish the dam.																																										
205	6113 - Lowland Maple	Sawtimber Medium	5.2	96	51-80	N/A	The stand is wet with pockets of L-Type in it. The ground is hummocky, and it appears to have a high-water table. There is a fair amount of wind throw happening. The stand is a transitional one going from uplands to lowlands, going from west to east. The crown closure is near 100% by the trail road and goes down to 25% as it approaches stand 204.																																										
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206	6113 - Lowland Maple	Sawtimber Well	10.7	90	51-80	N/A	The stand is wet with pockets of L-Type in it. The ground is hummocky, and it appears to have a high-water table. There is a fair amount of wind throw happening. The stand is a transitional one going from uplands to lowlands, going from west to east. The crown closure is near 100% by the trail road and goes down to 25% as it approaches stand 204.																																				
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207	4119 - Mixed Northern Hardwoods	Sawtimber Medium	14.4	80	51-80	N/A	The stand is uplands, for the most part, but it has inclusions of low wet ground. It was harvested in November 2008, under sale 73-005-07, Kleiner Oasis. The regeneration is patchy but present.																																				
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208	6113 - Lowland Maple	Poletimber Well	22.7	40	81-110	N/A	The stand is low, wet and sits at the base of a ridge. The soil is mucky. The ash and birch are gone. The crown closure has been reduced to below 50% because of the die off. The understory maple is now the featured species for the most part.																																				
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Michigan Holly	Full	5 - 10 feet	Tall Shrub																																								
209	4199 - Other Mixed Upland Deciduous	Sawtimber Well	41.1	91	111-140	N/A	The stand is made up of low dry knolls and wet depressions. The terrain is hummocky. The aspen is on the dryer soils and maple is in the lowlands. There are numerous drainages in the stand. The mix of uplands to lowlands is 45-55.																																				
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210	3104 - Degraded	Nonstocked	0.9				The stand is an active oil well, Site Permit 37755																																				
211	6230 - Cattail	Nonstocked	27.9			No	This stand is part of a larger wetlands complex. It is noticeable wetter and is more of a marsh.																																				
212	6127 - Lowland Pine	Poletimber Medium	14.6	67	1-50	N/A	The terrain is hummocky. The ground cover is sheep laurel and leather leaf. The stand is too wet to harvest. The crown closure is variable going from 100% down to 20% with an average around 60%. There is little chance of doing a commercial harvest. In addition, Bear Creek bisects the stand.																																				
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213	310 - Herbaceous Openland	Nonstocked	2.4	0		No	This stand is the area that was used for harvesting stand 306. It is mostly open herbaceous with a two-track running through it.																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
214	6225 - Bog	Nonstocked	4.6			No	The stand is a wet depression along old 76. It is mainly a bog.																													
215	4133 - Aspen, Mixed Pine	Sapling Well	7.1	26	1-50	N/A	The stand was habitat cut in 1995. It has a residual around 20 BA of mature hybrid oak. Harvesting the scattered oak now would set the aspen back. The terrain is hummocky. Overall, it is more uplands than lowlands, but there are inclusions of tag alder and leather leaf.																													
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216	6127 - Lowland Pine	Sapling Well	9.0	17	Immature	N/A	The stand was clearcut in 2004, in Bear Creek Harvest, sale 73-032-01. It has an excellent mix of natural regeneration. The soils appear to be seasonally wet. The terrain is hummocky. The ground cover is heavy to sheep laurel indicating that it has a high-water table in the spring. The stand does have some aspen but it's predominantly pine. There are some wetter areas in the south east corner of the stand.																													
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217	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	10.0	91	51-80	N/A	The stand goes from very wet to just wet. In the very wet areas, the crown closure is below 25% because of the ash die off. On the dryer ground the stand is more to white pine and maple. The terrain is very hummocky. The stand is too wet for commercial harvest.																													
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218	42200 - Natural White Pine	Sawtimber Well	6.5	112	81-110	N/A	The stand had a selection harvest in 2004, in Pine Shaft, sale 73-028-01. The harvest was completed in 2005. All the jack pine, red maple, and aspen were removed along with marked white pine and red pine. The overstory is dominated by large diameter white pine and red pine with a decent understory of red maple, aspen, and oak.																													
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219	4131 - Aspen, Oak	Sapling Medium	58.3	5	Immature	N/A	The stand was harvested under contract 73-021-11, Bear Creek Harvest, during the winter of 2014 & 15. The treatment was to cut all species 2" DBH except leave cedar, hemlock, tamarack, spruce, and green marked trees. The green marked trees were a handful of oak, white pine, and red pine. The stand is hummocky. It is upland, for the most part. There are pockets of sheep laurel and leather leaf indicating wetter pockets. The aspen is thicker toward the west side of the stand. Jack pine is seeding into the open areas. The stand looks like it will become fully stocked.																													
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221	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	44.6	90	1-50	N/A	The site is mainly lowland hardwoods with some scattered pockets of conifers.																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
222	4131 - Aspen, Oak	Sapling Medium	22.3	7	Immature	N/A	The stand was harvested under contract 73-021-11, Bear Creek Harvest, during the winter of 2014 & 15. It was a clearcut of all species except cedar, hemlock, tamarack, and spruce, along with green painted trees. The green painted trees are primarily large diameter white and red pines along with some healthier oaks. These are concentrated along the west boundary of the stand. The stand is mostly uplands with scattered low pockets of leather leaf with aspen. The crown closure is variable, and the lowlands makes up about 30 percent of the stand.																																												
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223	6229 - Mixed lowland shrub	Nonstocked	24.9			No	The stand is a drainage that is a mix of lowland shrubs over marsh grass. There are some islands of trees and some scattered through the stand, but they have a crown closure of less than 15%.																																												
224	42110 - Planted Red Pine	Sawtimber Well	39.1	65	171-200	N/A	The stand was planted in 1956. It was third row thinned in 2004, in Pine Shaft, sale 73-028-01.																																												
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225	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	19.6	38	81-110	N/A	The aspen was habitat cut in 1983. They are now small poles. It has an overstory of red oak, hybrid oak, white pine, and red pine. There's also a lot of regeneration of oak, pine, and maple in the under story. It is a little wet along the north edge as it runs along the drainage.																																												
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226	4131 - Aspen, Oak	Sapling Medium	38.4	7	Immature	N/A	The stand was harvested under contract 73-021-11-01, Bear Creek Harvest, during the winter of 2014 & 15. The sale was a clearcut of all species except cedar, hemlock, tamarack, and spruce along with green painted trees. The green painted trees were concentrated along the forested drain which bisects this stand from west to east. The stand is variable. It is a mix of species mainly aspen, oak, and pine. About 50% of the oak regeneration is not established. White pine and jack pine are seeding into the stand where it is sparse.																																												
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227	4133 - Aspen, Mixed Pine	Sapling Well	17.7	16	Immature	N/A	The stand was clearcut in 2004, in Bear Creek Harvest, sale 73-032-01. It has a very nice mix of natural regeneration. The stand composition is a mix of aspen, pine, and oak. These are not uniformly distributed throughout the stand.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
228	42290 - Natural Mixed Pine	Poletimber Well	6.5	48	1-50	N/A	The stand was partially harvest in 2004. All maple and aspen were cut to 2" DBH and all oak and pine was cut to 8" DBH. The residual is about 20 BA of oak and pine. There is good regeneration of oak/pine because of the partial harvest.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black/Red (Hybrid) Oak		25	Pole	6	48	Black/Red (Hybrid) Oak		
White Pine		55	Pole	6	48	Red Pine		
Red Pine		20	Pole	7		White Pine		
229	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	19.7	8	Immature	N/A	The stand was clearcut in early 2013, in Pine Shaft II, sale 73-010-11. The low areas in the stand are sparsely treed and the uplands are fully stocked. The average crown closure is around 60%. Both white and red pines are seeding in nicely into the open areas in the stand.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		20	Sapling	1	8			
Red Pine		10	Sapling	1				
Quaking Aspen		35	Sapling	1	8			
Black/Red (Hybrid) Oak		30	Sapling	1	8			
230	4311 - Pine, Aspen Mix	Sawtimber Well	41.6	53	111-140	N/A	The stand was harvested in the deer range improvement cuts in 1968. It is extremely variable. There is a drain in the stand which gets more defined as you move north and eventually becomes a creek. This makes the stand a little difficult to manage as the drain/creek that runs from the south to the north. Much of the stand could be harvested but there are definite areas that would need to be painted out. These wet areas will significantly reduce the acres that could be harvested in the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		39	Pole	7	53	Black/Red (Hybrid) Oak		
White Pine		35	Log/Pole/XLog	15		White Pine		
Red Pine		11	Log/XLog	15		Red Maple		
Black/Red (Hybrid) Oak		10	Pole/Sapling	6				
White Oak		5	Log/Pole/XLog	15				
231	42110 - Planted Red Pine	Poletimber Medium	25.4	64	1-50	N/A	The stand had the jack pine, aspen, maple and marked oak harvested in 2004. There is a residual of overstory red and white pine. The stand does have decent regeneration in the open areas in the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		82	Pole/Log	9	64	Red Oak		
White Pine		10	Log/Pole	10		White Pine		
Red Oak		5	Log	12		Bigtooth Aspen		
White Oak		3	Log	12		White Oak		
232	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	32.1	12	Immature	N/A	The stand was thinned in M-76 Red Pine, sale 73-070-93. The harvest was completed in 1995. It was then clear cut in the winter of 2007/2008 because it was identified as a red pine project stand and harvested out of YOE. All oak was left. The stand was trenched in the summer of 2008 and planted to red pine in May of 2009. The planting stock was with 2-0 stock and it is fully stocked. The red pine is competing or out competing the oak in most of the stand. There is an area at the northwest where the oak is doing better. The oak residual is declining. The overall survival of the red pine is very good.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		3	Log	14				
White Oak		2	Log	12				
Black/Red (Hybrid) Oak		30	Sapling	1	12			
Red Pine		59	Sapling	1	12			
White Oak		5	Sapling	1				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
233	4131 - Aspen, Oak	Sapling Well	32.6	8	Immature	N/A	The stand was clearcut in early 2013, in Pine Shaft II, sale 73-010-11. The stand transitions from oak/pine at the north end to aspen/oak at the south end. The aspen is the major species in about 2/3 of the stand. In the future it will probably be two stands, but at the current time keep it as one.																																																							
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234	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	14.7	38	1-50	N/A	The stand was habitat cut in 1983. The stand is a low wet drain with a flowing creek bisecting it. The stand has had beaver activity. However, it has no current active flooding. Where the stand was flooded. It is now lowland shrubs, mainly tag alder. The stand is too wet to harvest.																																																							
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235	42110 - Planted Red Pine	Sawtimber Medium	52.2	67	141-170	N/A	The stand was first time row thinned in 2004, in Pine Shaft, sale 73-028-01. The stand was thinned again in early 2013 (winter), in sale Pine Shaft II, sale 73-010-11. The stand's BA is around 140. The crown closure is not 75% yet but getting close. No treatment is recommended at this time.																																																							
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236	4130 - Aspen	Sapling Well	39.6	21	Immature	N/A	The overstory that was left is mainly in pockets and is less than 5 BA. In addition, it appears that oak and pine less than 4" DBH were retained. The terrain is undulating with the trail being on a ridge that goes through the stand. Most of the wettest ground is east of the trail.																																																							
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237	4310 - Pine, Oak Mix	Sapling Medium	18.3	8	Immature	N/A	The stand was clearcut in early 2013, in Pine Shaft II, sale 73-010-11. The stand has regenerated well. The crown closure varies from 25 to 100%. The species is a mix of pine, oak, and aspen. The stand does have significant choke cherry. Some of the oak regeneration is less than 4 ft tall, so it is not established. The stand should be fully stock within a couple of years as the oak becomes established.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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238 6132 - Mixed Lowland Forest with Cedar Sawtimber Medium 4.3 107 51-80 N/A

There is a flowing creek that bisects the stand. The cedar is concentrated along the south side. The aspen is declining and has significant mortality. Most of the stand is too wet to treat.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	25	Pole	8	107	White Pine	Medium	5 - 10 feet	Sapling
White Pine	30	XLog/Log	20	107				
Red Maple	25	Pole	8					
Quaking Aspen	10	Pole/Log	9					
Black/Red (Hybrid) Oak	10	Log/Pole	10					

239 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 3.1 102 51-80 N/A

The stand had a partial harvest in 1983. It currently has a nice understory of regeneration because of the harvest. It has a good mix of mixed oak and mixed pine. The regeneration is reaching pole size. The stand is a narrow ridge between two valleys. It is not recommended to remove the overstory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	40	Log/Pole	10	102	White Pine	High	Variable	Sapling
White Oak	15	Log/Pole	12		Black/Red (Hybrid) Oak	Medium	10 - 20 feet	Sapling
White Pine	30	Pole/Log/Sap	8		White Oak	Low	10 - 20 feet	Sapling

240 6132 - Mixed Lowland Forest with Cedar Poletimber Well 19.1 81 81-110 N/A

There is a flowing creek bisecting the stand. It is in a valley and includes the short steep slopes leading down to the creek. The aspen, red maple and white pine are on the slopes. The stand is heavy to cedar, hemlock, and white pine at the north end. It converts to hardwoods going south. The south end has areas that could be treated. However, most of the stand is not manageable.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	25	XLog/Log	18	81	White Pine	High	5 - 10 feet	Sapling
Hemlock	5	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar	20	Pole/Log	8					
Red Maple	30	Pole/Sap/Log	6	81				
Black/Red (Hybrid) Oak	10	Log/Pole	12					

241 42110 - Planted Red Pine Sawtimber Well 35.6 65 171-200 N/A

The stand was third row thinned in 2004, in Pine Shaft, sale 73-028-01. It currently has 180 BA with an average diameter of 10 inches. The understory is thick to mixed oak. There is also cherry, red pine, white pine, and white oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log/Pole	10	65	Black/Red (Hybrid) Oak	Full	5 - 10 feet	Sapling
					White Oak	Low	5 - 10 feet	Sapling
					Choke Cherry	Low	5 - 10 feet	Sapling
					Red Pine	Low	< 5 feet	Sapling
					White Pine	Trace	< 5 feet	Sapling

242 4310 - Pine, Oak Mix Sawtimber Medium 13.1 112 51-80 N/A

The stand was shelterwood/seed tree harvested in 2004, in Pine Shaft, sale 73-028-01. The sale retained 20 BA of mature oak and mixed pine. It has regenerated well. There is not enough overstory to go back into the stand and harvest. Any treatment would set back the oak and white pine regeneration that is 10 to 30 feet tall. In addition, the stand borders a subdivision.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	50	Log/Pole	12	112	White Pine	High	5 - 10 feet	Sapling
White Pine	44	Log/Pole	11	112	Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling
White Oak	6	Log/Pole	12		White Oak	Low	5 - 10 feet	Sapling
					Red Pine	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
243	4130 - Aspen	Sapling Well	32.0	28	1-50	N/A	The stand was clearcut in 1992, in Forest Grove Aspen, sale 73-040-91. It has excellent regeneration. The diameter of the trees is a little smaller than the other 27-year-old stands in the compartment. The terrain is generally flat with some rolling topography.																																												
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244	42110 - Planted Red Pine	Sawtimber Well	6.3	65	111-140	N/A	The clearcut in the adjacent stand has promoted aspen regrowth in this stand. The jack pine is pretty much gone. What is left is the log size red pine. There is a trace of birch, maple, and oak also in the stand. It could be left or clear cut and replanted. However, because of its small acreage, hold it until stand 241 is ready to be treated.																																												
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245	4130 - Aspen	Poletimber Well	97.2	34	51-80	N/A	The stand was clearcut in 1986. It is fairly level in the western side, and it gets hilly going to the east.																																												
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246	4130 - Aspen	Poletimber Well	16.2	28	1-50	N/A	The stand was clearcut in 1992, in Forest Grove Aspen, sale 73-040-91. It has excellent regeneration. There are a couple of drainages that cut through the stand. The tree species mix is not homogenous. There are areas heavy to birch, and areas heavy to big tooth aspen.																																												
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247	4311 - Pine, Aspen Mix	Poletimber Poor	3.3	29	1-50	N/A	The stand was clearcut in 1992, in Forest Grove Aspen, sale 73-040-91. This area was part of stand 248. However, it did not regenerate well. Currently it is made up of residual white pine. The ground cover is golden rod. The crown closure is just over 25%.																																												
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248	4130 - Aspen	Sapling Well	17.7	28	51-80	N/A	The stand was clearcut in 1992, in Forest Grove Aspen, sale 73-040-91. It has excellent regeneration. The stand is variable in species and density. The lower areas are heavy to paper birch. The north edge is heavier to quaking aspen. The rest of the stand is mainly bigtooth aspen and oak.																																													
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250	4130 - Aspen	Poletimber Well	20.0	28	Immature	N/A	The stand was clearcut in 1992, in Forest Grove Aspen, sale 73-040-91. It has excellent regeneration. The terrain in the stand is a little rolling with some significant hills. The aspen is going through a natural thinning at the current time, but it is still fully stocked.																																													
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251	4130 - Aspen	Sapling Well	21.8	28	1-50	N/A	The stand was clearcut in 1992, in Forest Grove Aspen, sale 73-040-91. It has excellent regeneration. The terrain in the stand is a little rolling with some significant hills. The aspen is going through a natural thinning at the current time, but it is still fully stocked.																																													
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252	4130 - Aspen	Poletimber Well	14.6	34	81-110	N/A	The stand was clearcut in 1986. It has excellent regeneration. The stand is undulating and there are several drainages that cut through it. They do not have defined bed and banks.																																													
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254	4131 - Aspen, Oak	Poletimber Well	14.7	34	51-80	N/A	The stand was clearcut in 1986. It is predominantly aspen and oak. The stand has some drainages making the topography undulating.																																													
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255	4130 - Aspen	Sapling Well	17.8	28	1-50	N/A	The stand was clearcut in 1992, in Forest Grove Aspen, sale 73-040-91. The stand has excellent regeneration. It is mostly upland with rolling topography. The aspen is heavy to bigtooth. It has pockets of paper birch and trembling aspen. In the center and on the west side this stand is a little lower and wetter.																																														
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256	4199 - Other Mixed Upland Deciduous	Sawtimber Well	6.2	72	51-80	N/A	This area was left when the adjacent stand was harvested. It has a steep slope leading down to a small drain that bisects it. Most of the stand area is a valley. The stand is mainly extra-large oak log over top of maple and aspen.																																														
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257	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	4.0	34	51-80	N/A	The stand was clearcut in 1987. It was cut with stand 254 but it is significantly wetter. The wetness appears to be seasonal and it dries out in late summer. The stand is heavy to maple with very little birch and aspen.																																														
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259	6113 - Lowland Maple	Sawtimber Well	13.1	75	81-110	N/A	The stand is a broad swale that has an intermittent drainage in it. The drainage has no defined bed or bank. There are areas in the stand that are too wet to harvest. The ash is gone, and there is a lot of down wood.																																														
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260	6113 - Lowland Maple	Sawtimber Medium	4.4	75	51-80	N/A	The stand has a intermittent creek that flows through it. The ash in the stand is gone. There are areas that could be treated but they are a minor portion of the stand. Overall, the stand is too wet to manage.																																														
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261	4130 - Aspen	Sapling Medium	3.1	10	Immature	N/A	The residual red pine is in good shape. The regeneration is patchy overall. However, the stand is fully stocked now that much of the oak regeneration is established. The terrain is generally flat with some hummocky areas.																																																												
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262	629 - Mixed non-forested wetland	Nonstocked	13.4		Immature	No	This is a depression that is heavy to leather leaf and lowland shrubs. There are areas that have sapling trees.																																																												
263	4130 - Aspen	Sapling Medium	18.6	10	Immature	N/A	The stand was harvested in 2011, in Sterling Canyons, sale 73-011-07. It is on a ridge. The crown closure is around 75%. There are several lowland shrub pockets and areas of low tree density.																																																												
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264	629 - Mixed non-forested wetland	Nonstocked	6.5		Immature	No	The stand looks like it was a wet meadow or and old beaver pond. From the imagery it looks to flood in the spring.																																																												
265	4139 - Aspen, Mixed Deciduous	Sawtimber Well	19.3	89	1-50	N/A	The stand is a mix of uplands and lowlands with the uplands being 55%. There are some low pockets that are lowland shrubs.																																																												
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266	6225 - Bog	Nonstocked	3.7		Immature	No	This stand is a low wet depression that is mainly leather leaf and lowland shrubs. There are some scattered trees. There is a wire in the stand that looks to be the remains of a seismic survey.																																																												
267	4137 - Aspen, Birch	Sapling Medium	44.3	31	Immature	N/A	The stand was harvested in 1990, in Arenac Grand, sale 73-005-88. It is variable with the crown closure ranging from 25-100%, and averages 70%. The ridges are heavy to oak and aspen, the low areas are heavy to birch and maple. In addition, there are some small inclusions of lowland shrubs. The mix of uplands to lowlands is around 50-50.																																																												
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268	6113 - Lowland Maple	Sawtimber Well	23.1	75	81-110	N/A	Overall, the stand is too wet to harvest. It is mainly a broad drain. The aspen and ash are mostly dead and down. There is also some wind throw of the maple and oak. The crown closure ranges from 0-80%. The average is in the 50-75% range.																																																															
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269	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	50.7	75	81-110	N/A	The stand is a mix of uplands and lowlands. The uplands make up around 55% of the stand. Some of the lowlands are too wet to harvest. The ash in the stand is gone.																																																															
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271	3104 - Degraded	Nonstocked	0.4		Immature		This is an opening associated with Rayburn Oil company. Brine disposal well Permit 18810																																																															
273	3102 - Grass	Nonstocked	0.4		Immature		This is an opening associated with Rayburn Oil company.																																																															
274	6229 - Mixed lowland shrub	Nonstocked	8.6		Immature	No	The stand does have some widely scattered trees, but they do not make up 10 BA. The stand is very wet with the ground cover being mainly tag alder, Michigan holly, and marsh grass.																																																															
275	4133 - Aspen, Mixed Pine	Sapling Medium	8.2	10	Immature	N/A	The stand has regenerated to a medium stocking. There is some seeding in of jack, white, and red pine. There are also areas that have not regenerated. The soils are degraded by the two-track, borrowing of sand in the past, and ORVs. There is an area at the north end of the stand that has become a hill climb.																																																															
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276	6113 - Lowland Maple	Poletimber Poor	18.6	75	1-50	N/A	The stand is too wet to harvest overall. There are several dryer knobs, but they are isolated by the wet ground and private land. Also, the tree density is lower on them. The ash that was in the stand is gone and there are areas that are now lowland shrubs.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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277	4133 - Aspen, Mixed Pine	Sapling Well	4.6	21	Immature	N/A	The stand has a drainage that bisects it. North of the drainage the stand has regenerated well to aspen. The area south is less dense. Overall, the crown closure is around 80%.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	70	Sapling/Pole	3	21	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Pine	20	Pole/Log/Sap	8					
Red Oak	4	Sapling/Pole/Log	4					
White Oak	3	Sapling/Pole/Log	4					
Red Maple	3	Sapling	2					

278	4130 - Aspen	Sapling Well	40.8	21	Immature	N/A	The terrain is undulating. There are some low areas and inclusions of lowland shrubs. There is also an area that was a beaver flooding that is not holding water. When the stand was harvested some residual oak was left but there is less than 5 BA.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	50	Sapling/Pole	3	21	Red Oak	Low	5 - 10 feet	Sapling
Quaking Aspen	15	Sapling/Pole	3		White Oak	Low	5 - 10 feet	Sapling
Red Maple	10	Sapling	2		Red Maple	Medium	Variable	Sapling
White Pine	3	Sapling	2		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Paper Birch	15	Sapling	2					
Red Oak	5	Pole/Sap/Log	7					
White Oak	2	Pole/Sap/Log	7					

279	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	3.0	75	111-140	N/A	The stand has a high concentration of yellow lady slippers as part of the ground cover. There is a trace of live ash. There is also a gravel trail that runs through the stand to the private land. The jack pine is declining and being replaced by maple.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	60	Pole	7	75	Red Maple	High	>20 feet	Sapling
Red Pine	5	Log/XLog	13		White Pine	Low	5 - 10 feet	Sapling
White Pine	5	Log/XLog	14					
Red Maple	20	Pole/Sapling	6					
Red Oak	5	Log/XLog	14					

280	6113 - Lowland Maple	Poletimber Medium	77.5	88	51-80	N/A	The stand is hummocky with aspen on the knolls and swamp hardwoods in the swales. Overall, the stand is more wet then dry. Portions of the stand are too wet to harvest. The ash in the stand is gone and the aspen is declining. There is also some wind throw of maple and oak. The stand has a heavy under story of oak and maple.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	65	Pole/Log/Sap	8	88	Red Maple	Full	>20 feet	Sapling
Bigtooth Aspen	20	Log/Pole	10		Red Oak	Medium	10 - 20 feet	Sapling
Red Pine	3	Log/Pole/Sap	12		White Oak	Low	10 - 20 feet	Sapling
Red Oak	5	Log/Pole/Sap	10		White Pine	Low	5 - 10 feet	Sapling
White Oak	2	Log/Pole/Sap	10		Michigan Holly	Medium	5 - 10 feet	Tall Shrub
White Pine	5	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
281	4130 - Aspen	Poletimber Well	57.7	33	Immature	N/A	The stand is mostly uplands. It has some pockets of lowlands and some drainages. The wet areas make up less than 15% of the stand. It does have some residual white pine that are mainly in two areas. The terrain is generally flat.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		70	Pole/Sapling	5	33	Deciduous Shrubs		
Red Maple		12	Sapling/Pole	3		Michigan Holly		
Red Oak		3	Sapling/Pole	3		Density		
White Oak		2	Sapling/Pole	3		Avg. Height		
White Pine		3	Pole/Sap/Log	5		Size		
Paper Birch		10	Sapling/Pole	3				
282	4137 - Aspen, Birch	Sapling Medium	8.1	21	Immature	N/A	When the stand was harvested some of the oak was left. It is about 10 BA. The feature stand is the regeneration. The stand is more upland along I-75. The low areas look like they dry out in summer.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		40	Sapling	3	21	Witch Hazel		
Red Maple		20	Sapling	2		Michigan Holly		
Paper Birch		25	Sapling	2		Tag Alder		
Red Oak		8	Pole/Sap/Log	6		Density		
White Oak		2	Pole/Sap/Log	6		Avg. Height		
White Pine		5	Sapling/Pole	4		Size		
283	4119 - Mixed Northern Hardwoods	Sapling Well	7.8	21	Immature	N/A	The stand has some oak residual, but it is less than 5 BA. There is also some pine residual but there is less of that than oak. The open areas are seeding in with birch and white pine. The pole size white pines in the open areas are heavily weevilled.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		60	Sapling/Pole	3	21	White Pine		
Bigtooth Aspen		10	Sapling/Pole	3		Red Maple		
Paper Birch		15	Sapling	2		Witch Hazel		
White Pine		15	Pole/Log/XLog	8		Density		
						Avg. Height		
						Size		
284	6225 - Bog	Nonstocked	10.8		Immature	No	The stand is lowland shrubs in the east going to leather leaf at the west end. The brush in the east end is mainly willow and alternate leaf dogwood with standing water. The west end is more leather leaf and blue berry.	
285	4131 - Aspen, Oak	Sawtimber Medium	18.2	88	1-50	N/A	The stand has 3 Rayburn wells and one tank storage battery in the stand. The pipes from the wells are on or just below the surface. They are an older lease. The stand could be harvested but with the oil infrastructure and the amount of wood makes any harvest prohibitive.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		20	Log/XLog/Pole	14	88	Red Oak		
White Oak		15	Log/XLog/Pole	14		White Oak		
Red Maple		15	Pole/Log	8		Density		
Bigtooth Aspen		40	Pole/Log	8	88	Avg. Height		
Red Pine		8	Log/Pole/XLog	13		Size		
White Pine		2	Log/Pole/XLog	13				
286	3104 - Degraded	Nonstocked	0.6		Immature		This is an opening associated with Rayburn Oil company, Permit 12327	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
287	6113 - Lowland Maple	Poletimber Poor	15.2	90	1-50	N/A	The stand is low and wet with lots of standing stagnate water. The tree species in the stand are a mix of red maple, balsam poplar, trembling aspen, and cottonwood. The crown closure ranges from 0 to 90%, but averages 40%. The ash is gone and some of the maples, oaks, and cottonwoods have blown over.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		28	Pole	8		Michigan Holly		Full	5 - 10 feet	Tall Shrub
Red Maple		60	Pole/Log/Sap	8	90					
Paper Birch		10	Pole/Sapling	6						
Cottonwood		2	Pole/Log	9						
288	622 - Lowland Shrub	Nonstocked	11.7		Immature	No	The stand is located at the base of a ridge. It is very wet with some scattered pockets of pine but has less than 25% crown closure.			
Sub-Canopy Species		Density	Avg. Height	Size						
White Pine		Low	>20 feet	Log						
Red Pine		Low	>20 feet	Log						
289	6112 - Lowland Aspen	Sapling Poor	10.6	10	Immature	N/A	A portion of the stand was harvested, and the regeneration is patchy. It has inclusions of lowland shrubs. The northern portion of the stand was moved into stand 288 because of ash die off and wind throw. It is more lowland shrubs than treed.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		50	Sapling	1	10	Michigan Holly		Full	5 - 10 feet	Tall Shrub
Red Maple		40	Sapling	1						
White Pine		5	Sapling	1						
Red Oak		3	Sapling	1						
White Oak		2	Sapling	1						
290	4130 - Aspen	Sapling Medium	29.8	20	Immature	N/A	The stand was harvested leaving all the oak and the pine. It is a two-aged stand with the overstory having an origin of 1917 and the understorey of 2000. The terrain is rolling. The aspen is now tall enough to take up a portion of the canopy. There are areas of thick oak logs.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		15	Log	14	103	Autumn Olive		Medium	5 - 10 feet	Tall Shrub
White Oak		3	Log	14						
White Pine		3	Pole/Log	9						
Bigtooth Aspen		70	Sapling/Pole	3	20					
Red Maple		9	Sapling	2						
291	4130 - Aspen	Sapling Well	25.1	20	Immature	N/A	The stand was harvested in 2000 leaving the oak and pine. However, this area has very little oak and pine. The terrain is undulating. There isn't much residual besides a few white pines in one pocket and some widely scattered oaks. The stand is coming along well, and it should be poles in 10 years.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		5	Log	14		Autumn Olive		Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen		85	Sapling/Pole	3	20	Serviceberry (Juneberry)		Low	5 - 10 feet	Tall Shrub
Red Maple		10	Sapling	2		Witch Hazel		Low	5 - 10 feet	Tall Shrub
292	4130 - Aspen	Sapling Well	15.0	20	Immature	N/A	The stand was harvested in 2000 leaving 10-20 BA of residual oak which has a year of origin of 1917. The residual oak in the stand is an even mix of red and white oaks. The terrain is undulating to rolling. It has filled in significantly from the last inventory cycle. It could be combined with stand 291, but keep it separate this inventory cycle.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		85	Sapling/Pole	3	20	White Pine		Low	10 - 20 feet	Sapling
Red Oak		5	Log	14						
White Oak		2	Log	14						
White Pine		3	Log	14						
Red Maple		5	Sapling	2						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
293	4131 - Aspen, Oak	Sawtimber Well	12.6	80	81-110	N/A	The stand was harvested in 2000 leaving 10-20 BA of residual oak which has a year of origin of 1917. The residual oak in the stand is an even mix of red and white oaks. The terrain is undulating to rolling. It has filled in significantly from the last inventory cycle. It could be combined with stand 291, but keep it separate this inventory cycle.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		55	Log/Pole	12	80	White Pine		
Red Oak		25	Log/Pole	12		Medium		
White Oak		10	Log/Pole	12		Variable		
White Pine		10	Log/Pole/Sap	10		Sapling		
294	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Medium	28.9	80	81-110	N/A	The stand is Parmalee creek and the associated slopes along the creek valley. The soils are very moist. The stand has a lot of wind throw in it, especially in the west end of the stand. Also, along the creek there are many springs coming out of the hill side that help maintain the wet nature of the soils.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		35	Log/XLog	16	80	Musclewood/Hornbeam		
Red Maple		50	Pole/Sap/Log	6	80	Medium		
Northern White Cedar		10	Pole	6		10 - 20 feet		
						Sapling		
295	4133 - Aspen, Mixed Pine	Sawtimber Medium	48.5	75	51-80	N/A	The aspen in the stand is way over mature and it starting to come down. The white pine and maple are starting to become a significant component in the canopy. The terrain is rolling with some pretty good size hills. The slopes in the stand go from 2% to 35%.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		50	Log	14	75	White Pine		
White Pine		30	Pole/Log	8		Medium		
Red Maple		15	Pole	6		10 - 20 feet		
Red Pine		5	Log/Pole	12		Sapling		
296	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	14.2	64	1-50	N/A	The stand is along I-75. The tamarack in the stand is mainly in 2 groups in the north end and the south end. The area between the pockets is a moderately stocked swamp hardwood mixed with tamarack.	
298	4131 - Aspen, Oak	Sapling Well	28.7	4	Immature	N/A	The stand was harvested in August 2017, in Wild Turkey Mix, sale 73-005-15. The regeneration is coming in well. The stand has regenerated to aspen and oak with some maple and pine. The residual left in the stand has suffered significant windthrow. The stand does have some open areas that have sparse regeneration but there are also areas that are very dense.	
Canopy Species		% Cover	Size Class	DBH	Age			
Bigtooth Aspen		50	Sapling	1	4			
Black/Red (Hybrid) Oak		20	Sapling	1				
Quaking Aspen		15	Sapling	1				
Red Maple		10	Sapling	1				
White Pine		5	Sapling	2				
300	4130 - Aspen	Poletimber Well	27.6	32	Immature	N/A	The stand was harvested in 1990, in Arenac Grand, sale 73-005-88. The terrain is undulating with some of the low areas being very wet. There are areas of rutting that occurred when it was harvested.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		60	Pole/Sapling	5	32	Black/Red (Hybrid) Oak		
Quaking Aspen		20	Pole/Sapling	5		Medium		
Black/Red (Hybrid) Oak		10	Sapling	3		Variable		
Paper Birch		5	Sapling	2		5 - 10 feet		
Red Maple		5	Sapling	2		Tall Shrub		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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301	4130 - Aspen	Poletimber Well	45.5	32	Immature	N/A	The terrain is rolling. Some of the low areas are lowland shrubs. The canopy closure ranges from 40-100%. The low areas are heavy to oak and pine. The rest of the stand is mainly aspen and oak. Also, the low areas have significant rutting.																																															
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303	4130 - Aspen	Poletimber Well	45.9	31	Immature	N/A	The stand was harvested in 1990, in Arenac Grand, sale 73-005-88. It is mostly uplands, but there are several lowland draws. The stand has a fair amount of birch which is in the wetter areas.																																														
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304	4130 - Aspen	Sapling Well	24.5	31	Immature	N/A	The stand was harvested in 1990, in Arenac Grand, sale 73-005-88. The terrain is undulating to rolling with a couple of high ridges. Some of the depressions are non-forested and make up an interconnected drainage system. When it was harvested the white pine less than 4" DBH were retained. There is significant rutting in the lower areas.																																																				
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305	6112 - Lowland Aspen	Sapling Medium	17.3	32	Immature	N/A	The stand was harvested in 1990, in Arenac Grand, sale 73-005-88. The stand is a depression. It has a thick under story of tag alder. The crown closure is around 55%. The ash in the stand has died off and there is some wind throw.																																	
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306	4130 - Aspen	Poletimber Well	32.5	32	Immature	N/A	The stand was harvested in 1990, in Arenac Grand, sale 73-005-88. The stand has several drainages that cut through it. It is mostly uplands. Some of the low areas are more like lowland shrubs with swamp hardwoods. The areas of denser birch are in the lower ground.																																																						
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307	6113 - Lowland Maple	Poletimber Medium	16.9	89	51-80	N/A	The stand is low and wet overall. It is also quite variable going from a good swamp hardwood to lowland shrubs. The ash and aspen have fallen out of the overstory. With the loss of those overstory trees the stand looks more like a regeneration stand resulting from a shelterwood or seed tree harvest. The uplands could be treated but they exist in a fine matrix of lowlands and uplands with much of the lowlands being too wet to treat.																																																						
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308	4130 - Aspen	Sapling Well	9.2	9	Immature	N/A	The stand is doing well. It is predominantly aspen with a little bit of oak and choke cherry. There is some scattered residual white pine log mainly along Old 76 and Bear Creek Road.																																																						
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309	42200 - Natural White Pine	Sawtimber Well	18.9	74	111-140	N/A	The stand was harvested in Bear Creek Removal, sale 73-038-97. It was completed in 1998. It was then cut in 2008, sale 73-005-07, Kleiner Oasis. It looks like the hardwood was removed. The stand is predominantly white pine poles just about to convert over to logs.																																																						
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310	42200 - Natural White Pine	Poletimber Medium	8.4	64	51-80	N/A	The stand is variable. It has sapling white pines going up to log size white pines. The aspen in here is quaking and it looks like it's probably around 34 years old. It could be older but it's not doing well at all. There are some poles of oak as well as saplings. It's a real hodgepodge of species. The terrain is hummocky, and it is a mixture of uplands and lower ground. There's a lot of sheep laurel in the understory.																																																						
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311	42210 - Natural Red Pine	Sawtimber Well	6.4	64	81-110	N/A	The stand was harvested in Bear Creek Removal, sale 73-038-97. Which was completed in 1998. The terrain is hummocky, and it appears that there is a high-water table. The ground cover is sheep laurel, blueberry, and leather leaf. The east side looks a little dryer than the west side.																																															
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312	42290 - Natural Mixed Pine	Poletimber Medium	12.7	64	51-80	N/A	The stand is a mix of aspen, jack pine, white pine, and red pine. The red pine is toward the north end of the stand. The white pine is thicker toward the south. The terrain is hummocky and there is a lot of sheep laurel indicating a high-water table.																																															
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313	42290 - Natural Mixed Pine	Poletimber Medium	10.3	64	51-80	N/A	The stand is a hodgepodge of species. There's red pine, white pine, jack pine, quaking aspen, bigtooth aspen, and maple. These species are in the overstory and understory. The soil is dryer than the stands to the east, but there's still has areas of sheep laurel.																																															
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314	4137 - Aspen, Birch	Sapling Well	31.6	31	Immature	N/A	The stand was harvested in 1990, in Arenac Grand, sale 73-005-88. The east side is dryer and more rolling in topography. The west side is wetter and hummocky. This area has some significant rutting from when it was harvested. Overall, the uplands make up about 55% of the stand.																																															
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315	4137 - Aspen, Birch	Sapling Well	11.4	31	Immature	N/A	This stand is a mix of uplands and lowlands. The uplands make up about 70%. The lowlands are part of a drainage system.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
331	6126 - Lowland Jack Pine	Poletimber Well	10.0	69	1-50	N/A	The terrain in the stand is hummocky. There are some scattered small upland pockets. However, most of the stand is a jack pine bog.																																																						
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332	6225 - Bog	Nonstocked	189.7		Immature	No	The stand is mainly a bog. It did have areas of ash, but it is all dead now. There are still some pockets of mixed conifer, being white pine, jack pine, and tamarack. There is an old oil well road that crosses the stand. The stand also has an area that is more of a treed bog along the railroad line.																																																						
333	330 - Low-Density Trees	Nonstocked	4.6			No	This stand is a low ridge in a large lowland shrub stand.																																																						
334	6225 - Bog	Nonstocked	89.3			No	The stand has a man-made drain going through it. The stand is wet and is a bog.																																																						
337	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	2.2	42	1-50	N/A	The stand was habitat cut in 1979. The stand is heavy to jack pine. The terrain is hummocky. The ground cover is heavy to sheep laurel. The stand is mostly upland. The jack pine is still in good shape, but the stand is too small to come in and harvest.																																																						
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338	42120 - Planted Jack Pine	Sapling Well	32.0	16	Immature	N/A	The stand was clearcut in 2004, in Bear Creek Harvest, sale 73-032-01. It was trenched and planted to jack pine in 2005. The stand has a lot of volunteer red pine, jack pine, and quaking aspen giving the stand a more natural feel. The terrain is hummocky. The ground cover is heavy to sheep laurel with pockets of leather leaf, so it is wet. Overall, the stand is doing well.																																																						
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339	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Medium	14.4	88	1-50	N/A	The terrain is hummocky. The crown closure goes from 100% near the railroad tracks down to below 20% around the oil well pad. The stand is manageable closer to the railroad tracks but most of the stand is too wet to harvest.																																																						
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