

Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73015

Entry Year: 2027

Acreage: 4,653

County: Clare

Management Area: High Sand Plains

Stand Examiner: Casey Owens

Legal Description:

T19N - R06W. Sections: 3 - 10, 16 - 21, 29 & 30.

Identified Planning Goals:

Follow guidelines set forth in the Regional State Forest Management Plan for the Upper Muskegon Management Area. Monitor and address forest health concerns and issues, balance timber age classes, manage for forest sustainability, provide wildlife habitat and provide forest based recreation. Protect archaeological concerns, protect threaten and endangered species.

Soil and topography:

The area varies from well drained Grayling sands in the out-wash plains to poorly drained mucky Lupton-Markey soils as you enter the Muskegon River Floodplain, the Dishwash Creek Corridor, the Giss-I-Was Creek Corridor and the Whiskey Creek Corridor. The terrain varies from nearly level to the steep banks that lead down into the floodplain of the Muskegon River. Giss-I-Was Creek bisects the compartment; the creek is in a valley and there are areas of steep banks leading down into the river valley. The major soil types are Rubicon-Croswell-AuGres associations, Lupton-Markey associations and Grayling sands

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

The state land in this compartment is spread out over 16 sections, the state and private lands are intermixed resulting in miles of private property lines. The state land occurs in large contiguous blocks and isolated government lots along the Muskegon River. Private holdings are mostly comprised of large (40 acres or greater) forested single holdings with absentee landowners. Limited forest management activity occurs on the private holdings. There are numerous permanent residences scattered through out the entire compartment as well. The town of Temple is located directly adjacent to the compartment. The location of this town concentrates use on the land and along the Muskegon River.

Unique Natural Features:

This area has a variety of rare species that could be or are present including; Kirtland Warbler, Slippershell, Elktoe, Round Pigtoe Mussels, Eastern Box Turtle, Goshawk, Bald Eagle, Osprey, Great Blue Heron, Wood Turtle and Blanding's Turtle. There is also potential for Beak Grass, Broad-leafed Puccoon in stands along the Muskegon River. It has been documented by MNFI that high-quality floodplain forests exists within and to the north and south of the compartment all along the Muskegon River

Archeological, Historical, and Cultural Features:

There are three documented sites within the compartment.

Special Management Designations or Considerations:

Two separate areas of the Muskegon River Floodplain have been designated as Ecological Research Area's (ERA). Both areas as "Floodplain Forest's" The north area; Muskegon River/Green Creek North ERA, has a written plan and is surrounded by water (stand 190). The south area; Muskegon River/Huckleberry Trail ERA dose not have a completed plan and is surrounded by water as well (stands 58 & 85). Continue to manage aspen and jack pine stands to maintain a verity of age classes to enhance deer and grouse habitat.

Watershed and Fisheries Considerations:

Dishwash Creek, Giss-I-Was Creek and Whiskey Creek all flow into the Muskegon River within this compartment. All of these water-ways are within the compartment. Dishwash Creek, Giss-I-Was Creek and Whiskey Creek are listed as type 1 trout streams in the 2014 Trout and Salmon Guide and should be treated as cold water fisheries. Giss-I-Was Creek is in a valley and has a natural buffer of lowland brush and marsh directly adjacent to its banks. The Muskegon River, a warm water fishery and a major Michigan watershed has a natural corridor (floodplain) of lowland swamp hardwood along most of the water course and should be considered a sensitive area for timber harvest purposes. Upland/High bank areas along the river should also be considered sensitive. The Muskegon River Floodplain and associated bottomlands are seasonally flooded. There are also many scattered low areas that are seasonally flooded and support populations of waterfowl and many non-game species.

Wildlife Habitat Considerations:

Compartment #15 contains a variety of habitat types suitable for many wildlife species. The compartment includes the Muskegon River drainage and adjacent lowland complexes. These lowlands support various waterfowl, reptiles, amphibians, and their predators including raccoon, bobcat, mink, and Great Blue Heron. Furbearers including beaver, mink, muskrat, black bear, bobcat, and coyote use the lowlands as corridors as well as year-round habitat. 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, redbellied vireo, white-throated sparrow, hermit thrush, red-breasted nuthatch, ruffed grouse, and American woodcock. The compartment is easily accessible to hunters via M-61.

Mineral Resource and Development Concerns and/or Restrictions

No active sand/gravel operations are known to exist in the area, and potential for development of sand & gravel within the compartment may be limited due to the presence of a shallow water table and wetlands, which could inhibit surface mining. Portions of the Winterfield and Freeman Redding oil & gas fields occur within the north and south ends of the compartment, respectively. Much of the Winterfield has been converted to gas storage, but some oil production still occurs. Much of the Freeman Redding Field has been abandoned. Potential for expansion of either field is considered low. A well was drilled in Sec 20 in 2021, but it was a dry hole. It is unlikely new wells will be drilled within the compartment, but it is possible. The northern half of the compartment is leased for gas storage. No known potential exists for commercial production of metallic minerals in this part of the state. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Access to most of the compartment is good via the county road system and state two tracks that are in place. There are access limitations to State Land along the Muskegon River.

Survey Needs:

Stand 127 has a survey needed site condition, and is also coded for a treatment.

Recreational Facilities and Opportunities:

No official facilities. The area receives moderate hunting pressure most of which is deer hunters. Light fishing pressure occurs on Dishwash Creek, Giss-I-Was Creek and Whiskey Creek. The Muskegon River receives moderate fishing pressure. Moderate dispersed camping occurs mainly during the firearm deer hunting season. Canoe traffic on the Muskegon River can be heavy on weekends during the summer. A private campground and canoe livery is located directly adjacent (east/central) to the compartment along the Muskegon River on the north side of M-61.

Fire Protection:

A potential fire control problem exists due to the rural /urban interface within this compartment.

Additional Compartment Information:**The following reports from the Inventory are attached:**

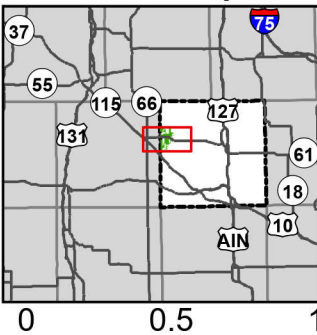
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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: 73015
T19N R06W 03-10, 16-21, 29, 30
County: Clare
Unit: Gladwin
Mgmt. Area: High Sand Plains
YOE: 2027
Acres: 4,653 GIS Calculated
Examiner: Casey Owens
Date Exported: 9/23/2025
Map Phase: Post Review



- Survey Grade Corners
- Berms
- Gate
- Campground

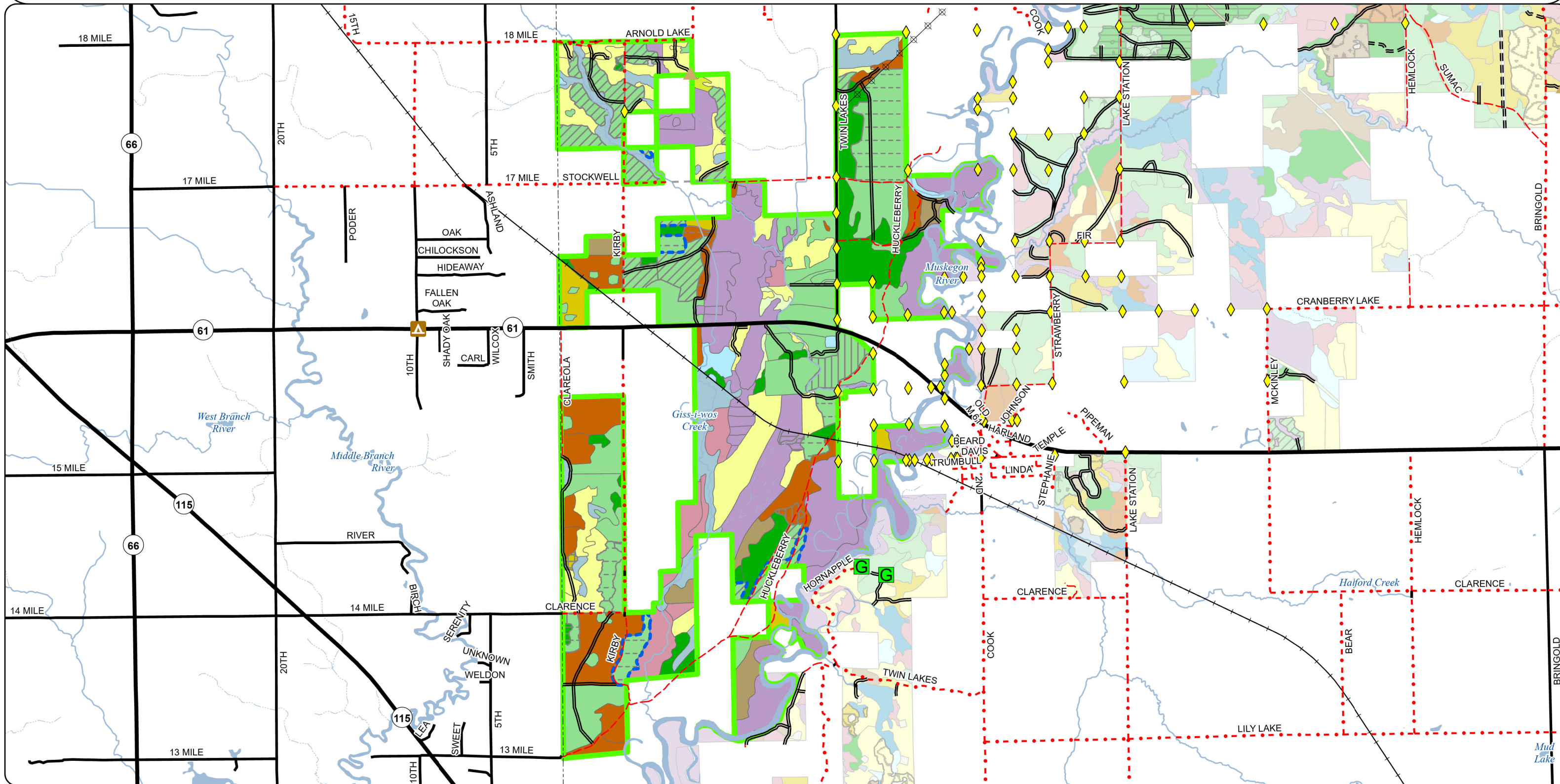
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway

- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Intermittent Stream
- Perennial River
- Powerline

- Lakes and Rivers
- Counties
- Compartment Boundary
- Clearcut
- Seed Tree
- Shelterwood
- Thinning
- Overstory Removal

- Treatments with Site Conditions
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 500 - Water

- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub



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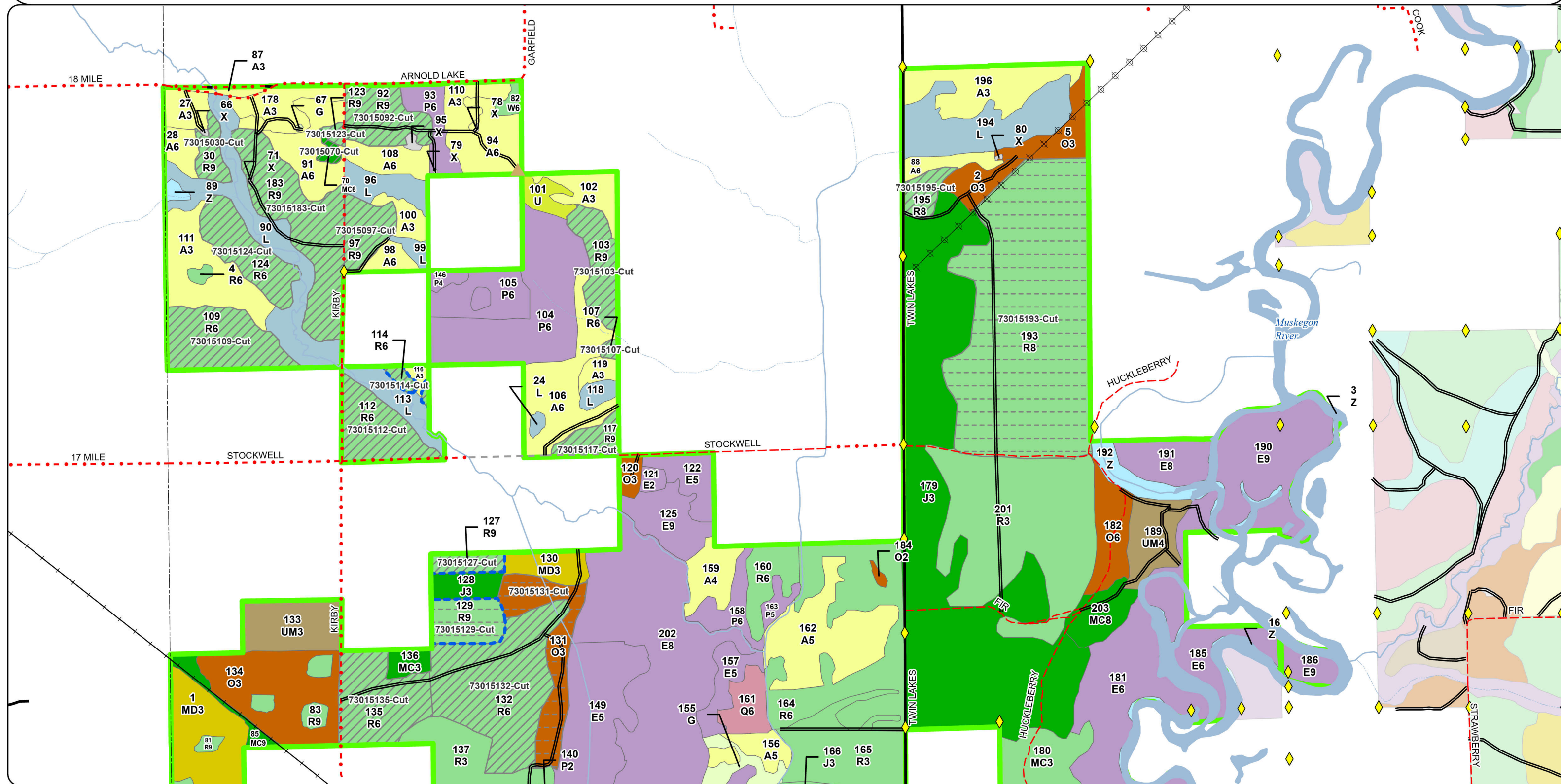


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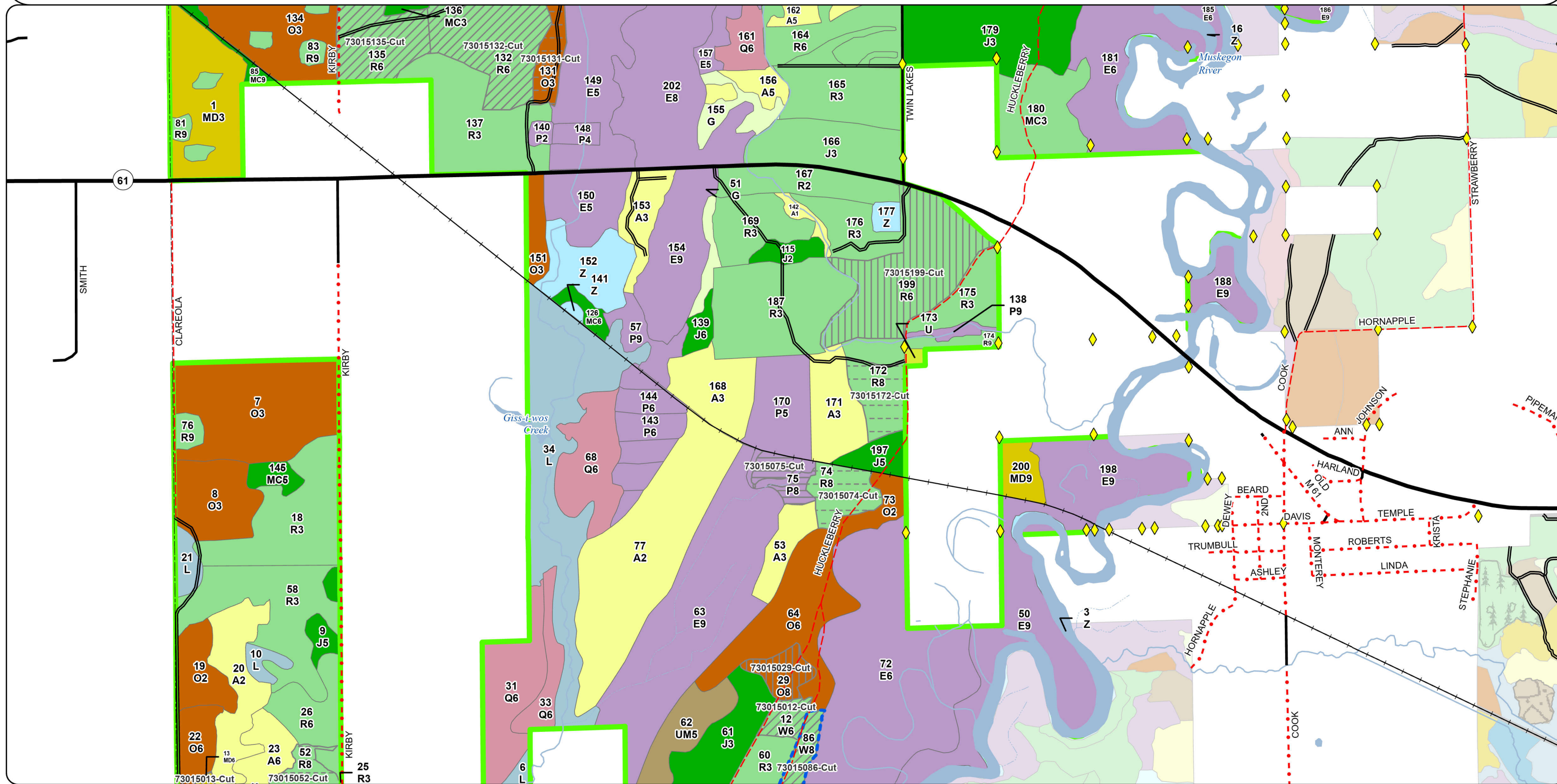
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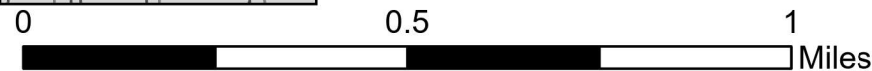
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Gate

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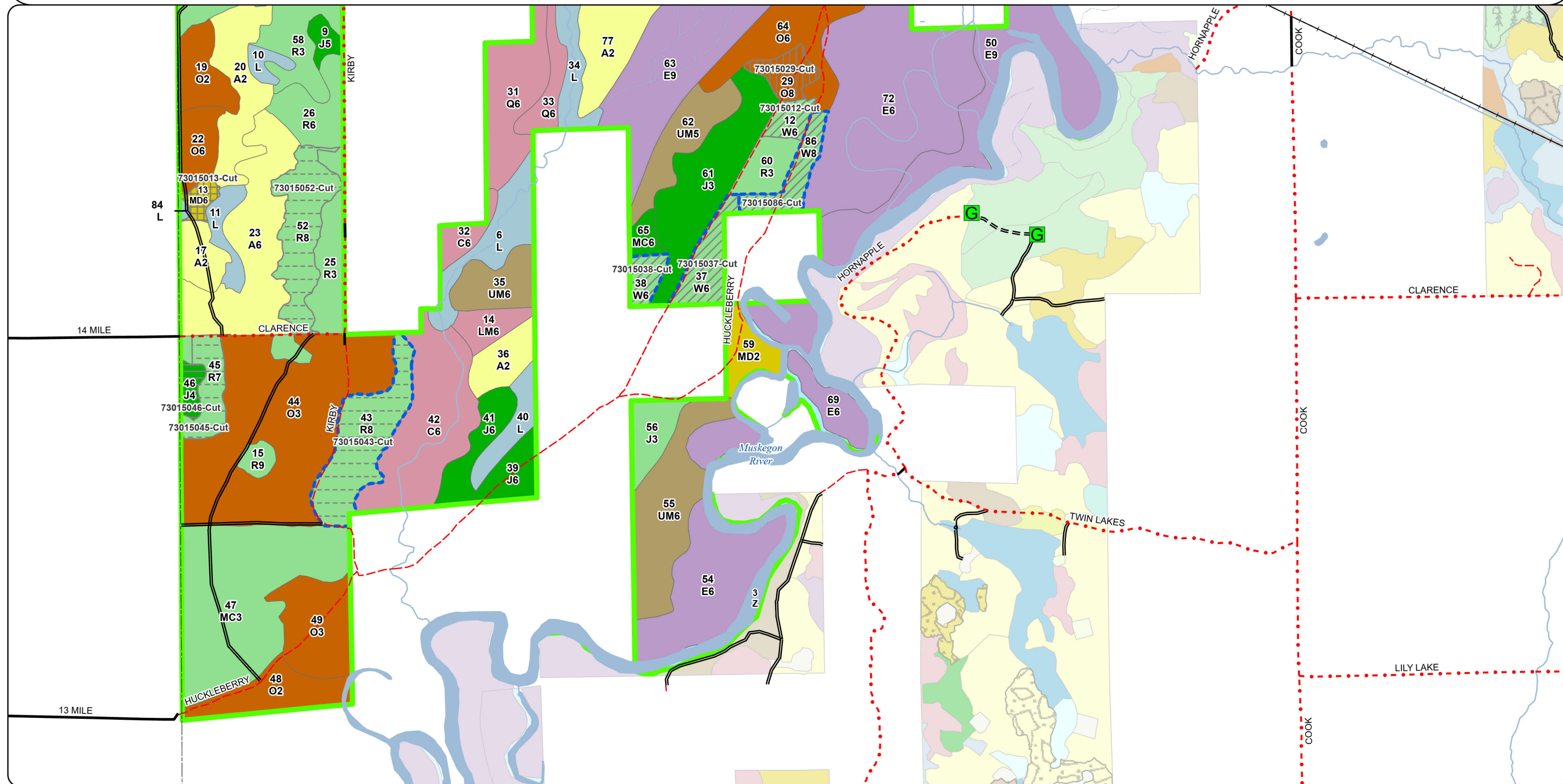
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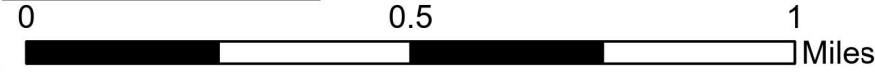
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622 - Lowland Shrub



Stand Boundary Map

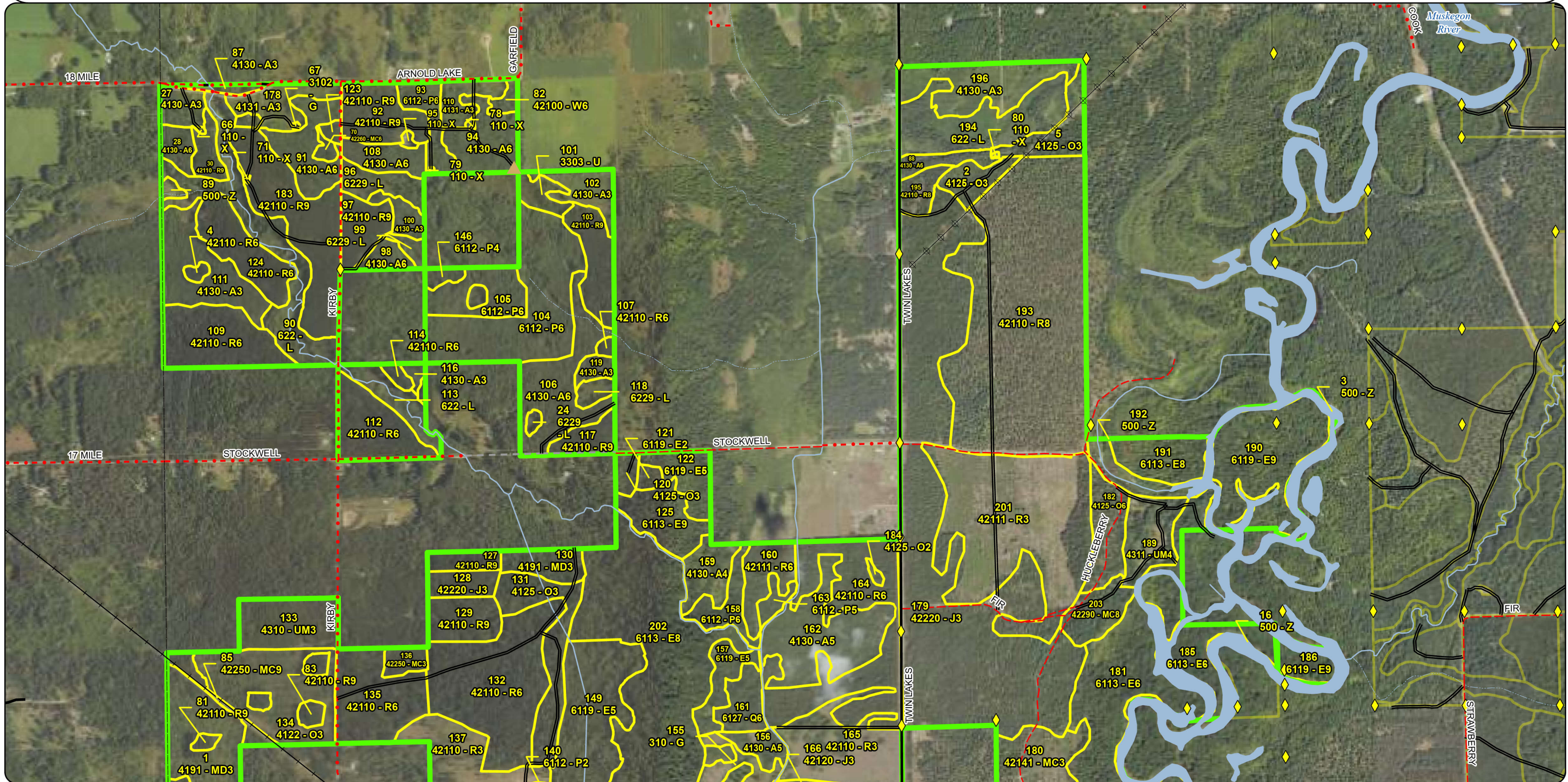
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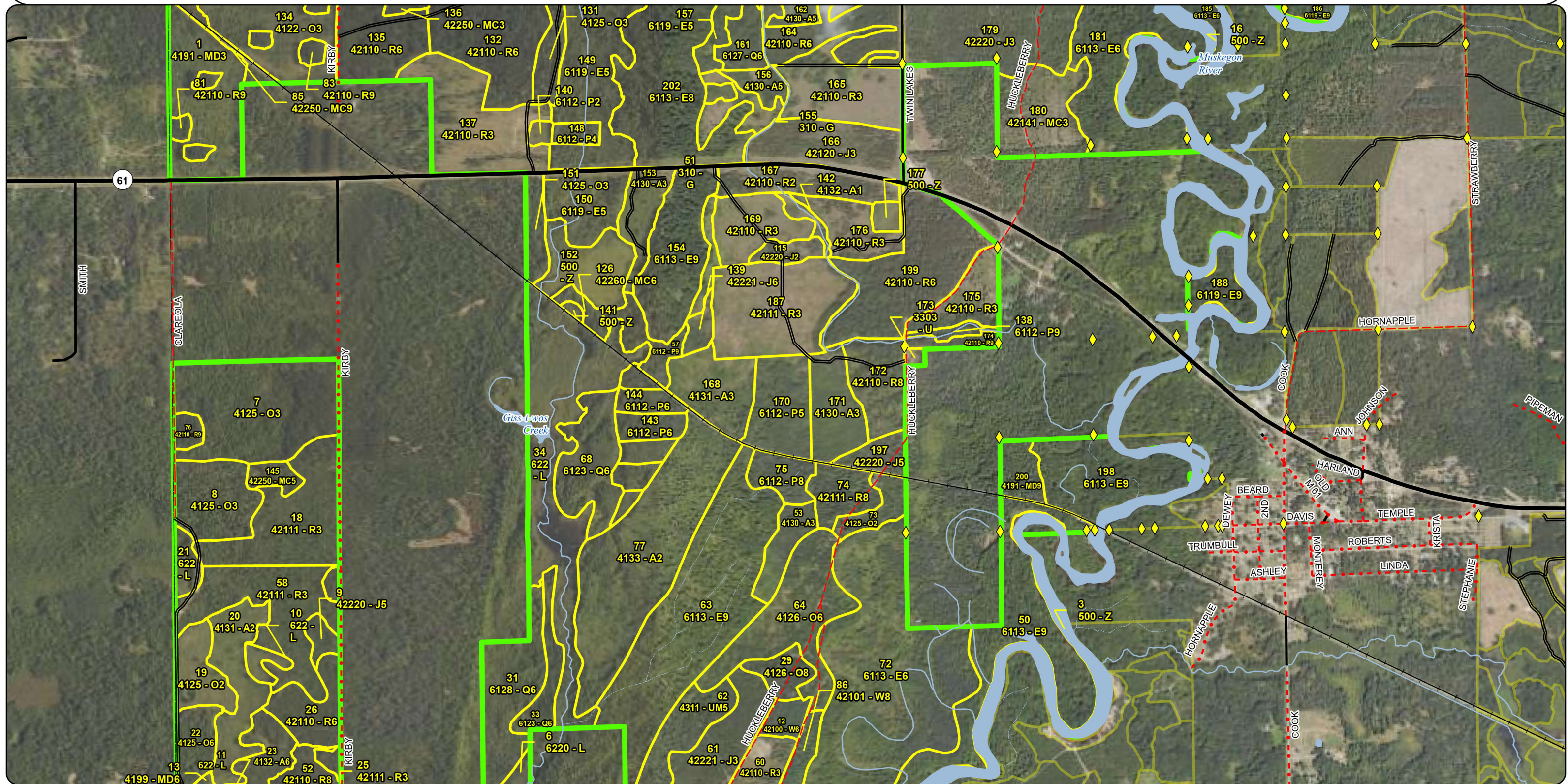
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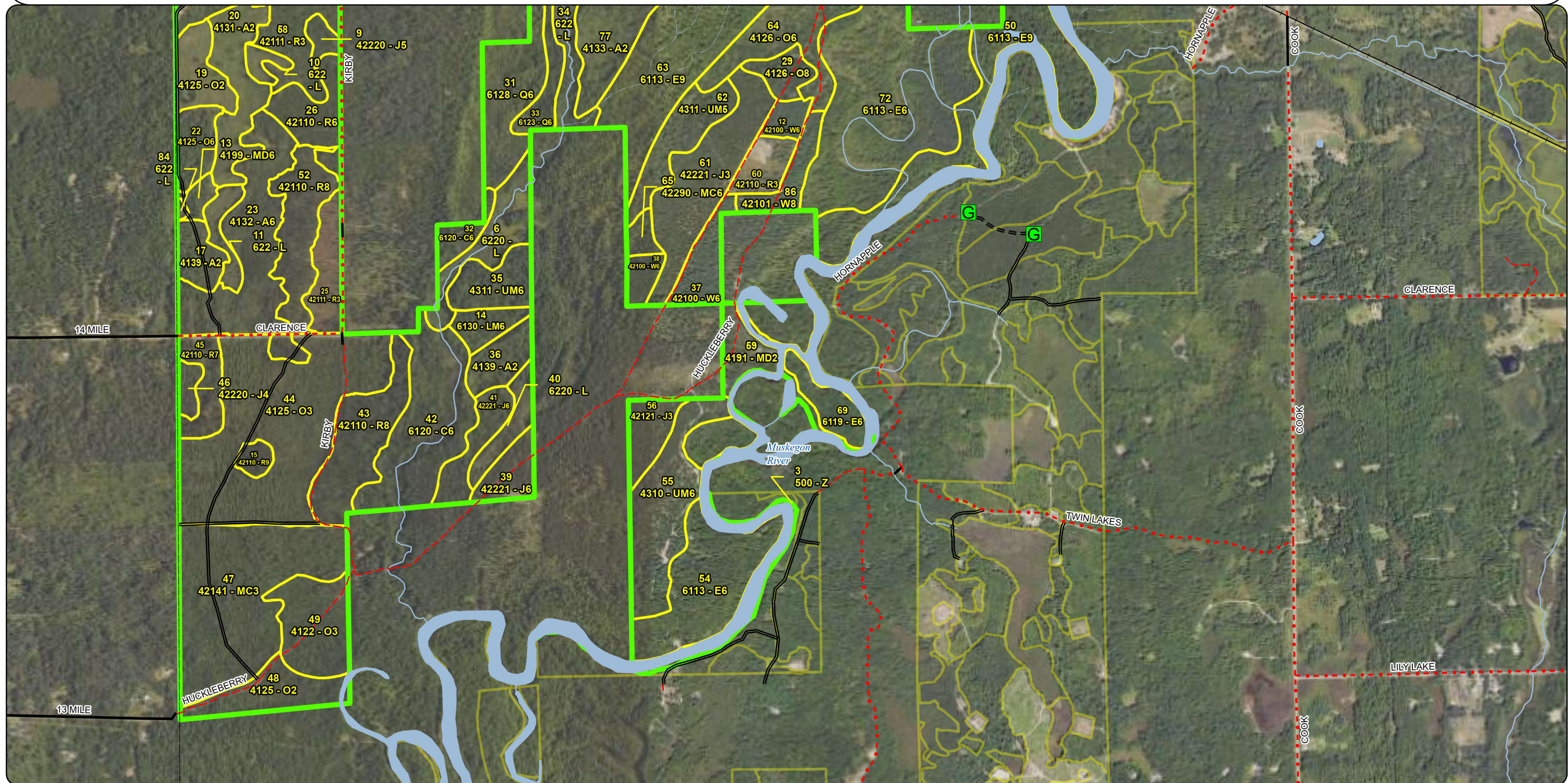
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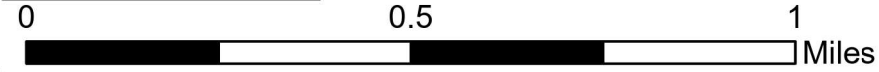
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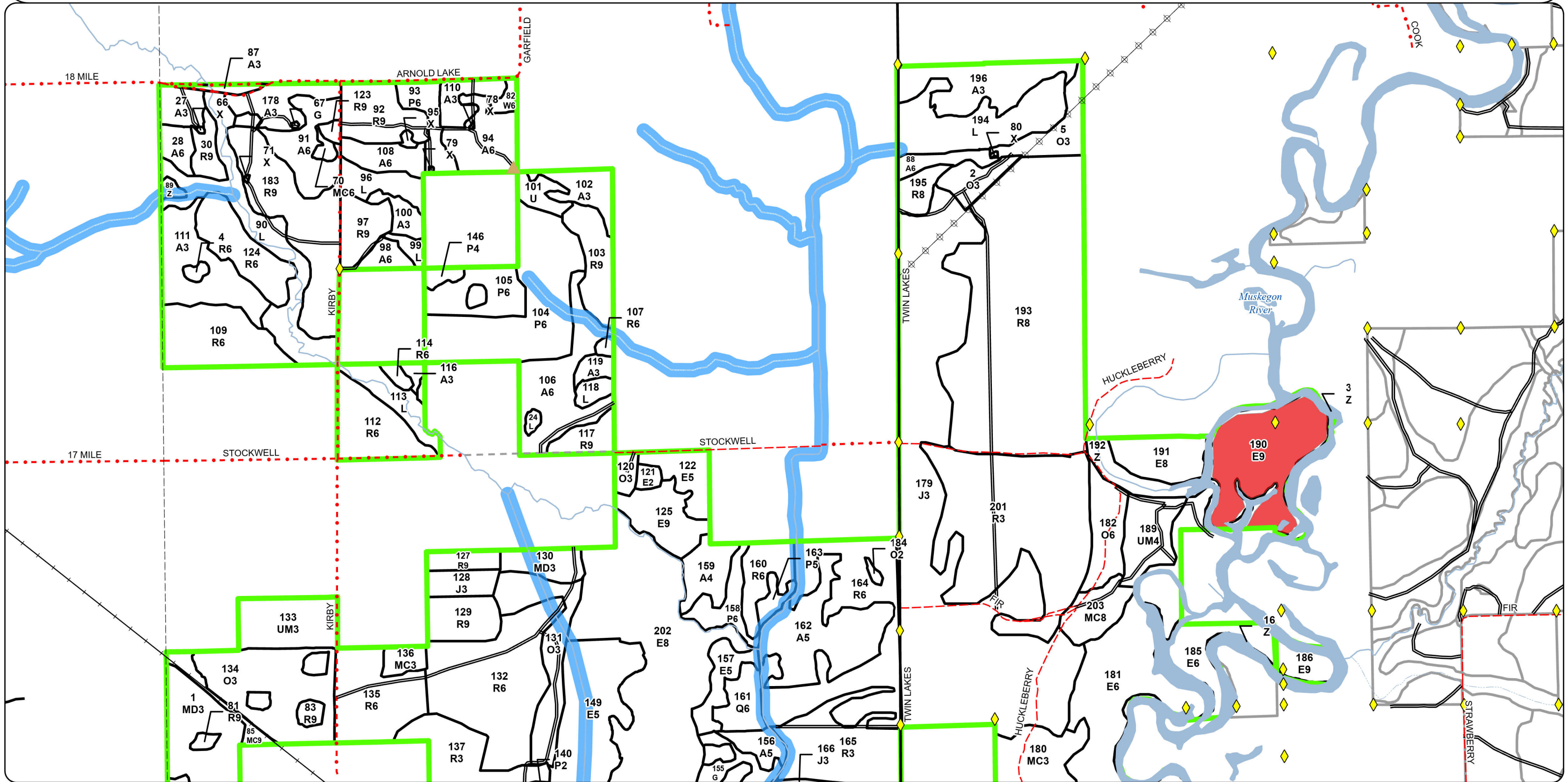


Special Conservation Areas & Site Conditions Map

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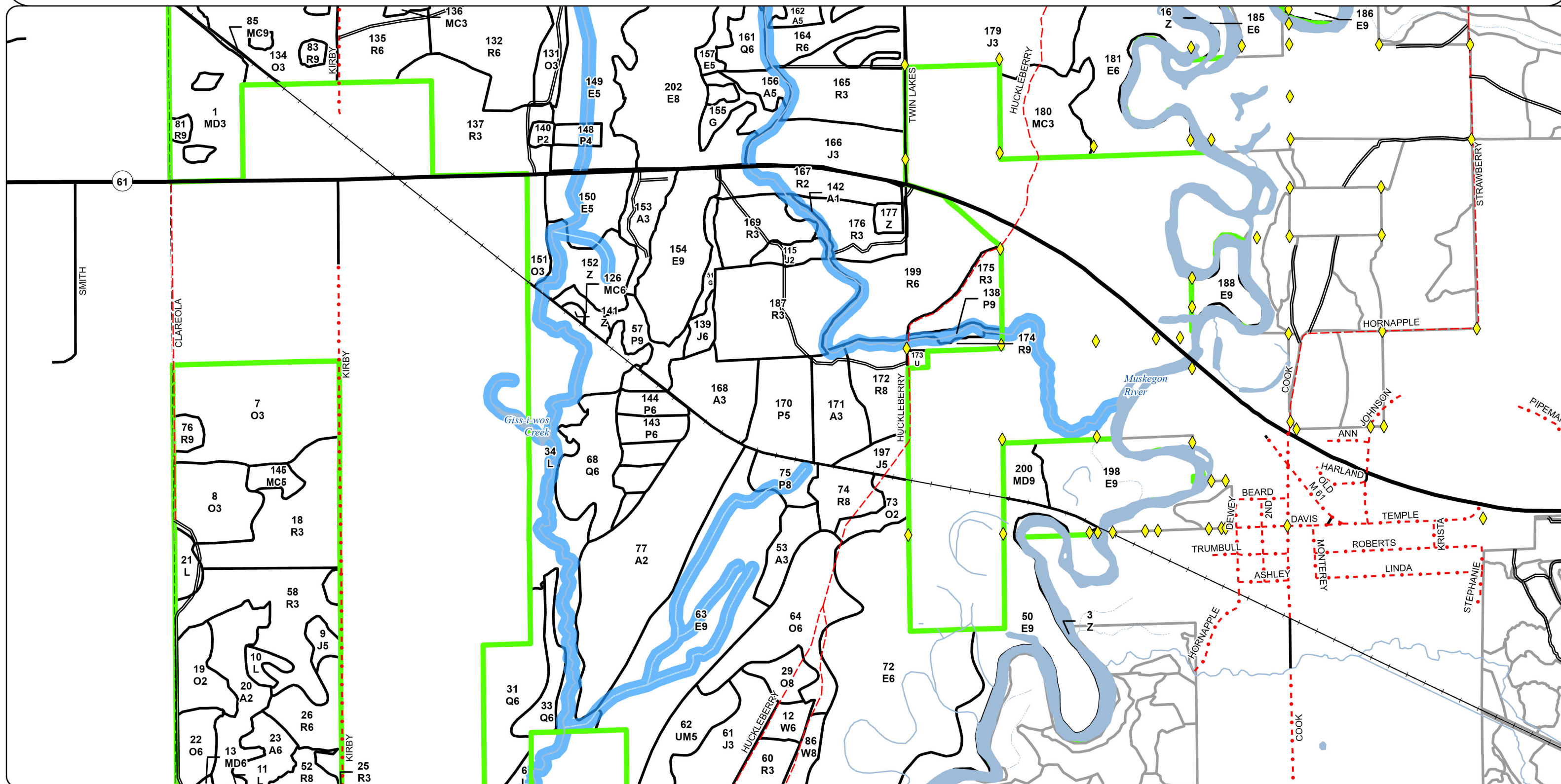
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- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer





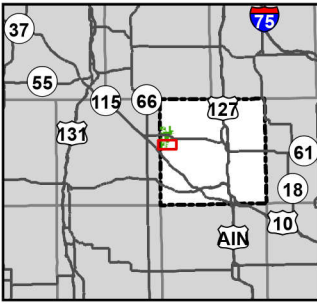
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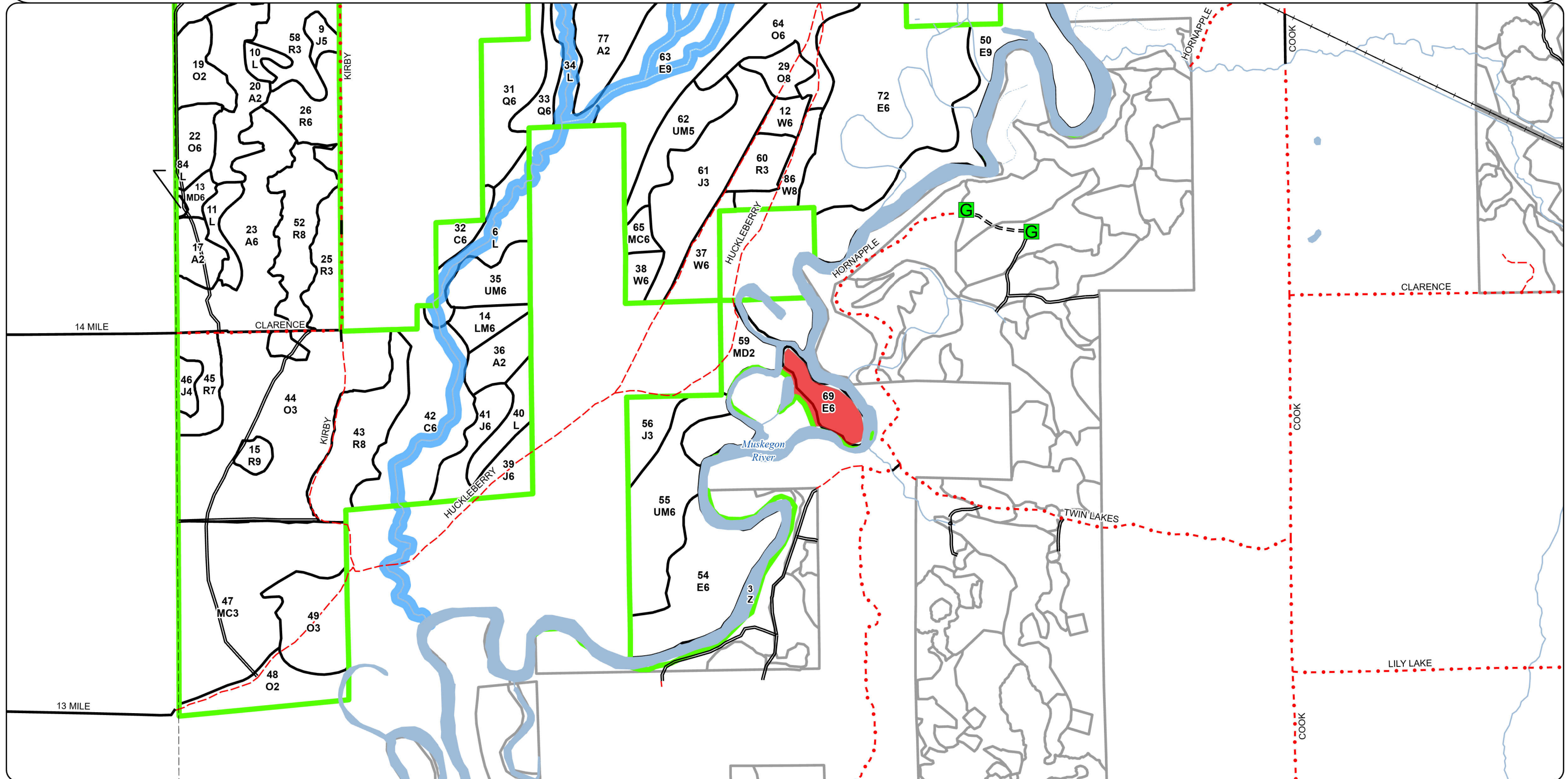
Compartment Boundary

Stand Boundaries

Ecological Reference Areas

Cold Water Streams

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Report 1 – Total Acres by Cover Type and Age Class

Gladwin Mgt. Unit

Compartment 15 Year of Entry 2027

Casey Owens: 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+	Unseen-Aged	Total
Aspen	0	56	219	98	18	98	51	11	0	0	0	0	0	0	0	0	0	0	550
Cedar	0	0	0	0	0	0	0	0	0	0	56	0	8	0	0	0	0	0	64
Herbaceous Openland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Jack Pine	0	0	0	239	94	0	16	5	0	0	0	0	0	0	0	0	0	0	354
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	3	0	0	80	52	26	12	0	20	0	0	0	0	0	0	0	0	192
Lowland Conifers	0	0	0	0	13	0	0	34	11	30	0	0	0	0	0	0	0	0	88
Lowland Deciduous	0	0	0	0	0	56	12	0	0	228	34	100	60	151	40	0	0	232	913
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Lowland Shrub	246	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	246
Mixed Upland Deciduous	0	44	13	10	0	0	5	0	0	0	0	0	0	0	0	0	0	10	82
Natural Mixed Pines	0	0	0	5	0	6	6	23	0	2	0	0	0	0	0	0	0	0	42
Oak	0	56	77	159	161	0	13	0	0	10	0	0	0	0	0	0	0	0	475
Planted Mixed Pines	0	0	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	121
Red Pine	0	115	296	21	24	0	0	2	655	31	59	0	0	0	0	0	0	0	1202
Upland Mixed Forest	0	0	0	0	67	18	23	0	0	18	0	0	0	0	0	0	0	0	125
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122
White Pine	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	44
Total	396	274	726	532	457	230	152	131	666	349	149	100	68	151	40	0	0	242	4656

Report 2 – Treatment Summary

Gladwin Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 15
Total Compartment Acres: 4,653

Commercial Harvest - 766
Harvests with Site Condition - 130
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Oversory Removal	Salvage	Other	Total Acres
Jack Pine	5	0	0	0	0	0	0	0	0	5
Lowland Aspen/Balsam Poplar	8	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	0	0	5	0	0	0	0	0	5
Natural Mixed Pines	0	0	0	0	0	2	0	0	0	2
Oak	0	0	0	0	10	0	26	0	0	36
Red Pine	0	0	0	0	58	291	285	0	0	634
White Pine	0	0	0	0	0	41	0	0	0	41
Total	13	0	0	5	68	334	311	0	0	730

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	730	0	0	0	0	0	0	0	0	730
Next Step	0	0	0	0	0	0	165	0	0	165
Total	730	0	0	0	0	0	165	0	0	896

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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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Approved Treatments:

12	73015012-Cut	6.6	42100 - Planted White Pine	6	66	141-170	Harvest	Thinning	4210 - Planted White Pine	Planting Record	No
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Prescription Crown thin the white pine, and remove all non-pine species. Thin to 120 BA or lower if needed to remove non-pine species.

Specs:

Next Step

Treatments:

Acceptable White pine

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

13	73015013-Cut	4.6	4199 - Other Mixed Upland Deciduous	6	58	81-110	Harvest	Seed Tree	4199 - Other Mixed Upland Deciduous	Planting Record	No
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Prescription Clearcut all species 2 inches and up, excluding white oak. Soft factor oak spec, protect understory spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, white pine, red pine, and oak.

Regen:

Other Corners found in the county road to the south as well as to the north just off forest two track.

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

29	73015029-Cut	9.8	4126 - White, Black, N. Pin Oak	8	80	51-80	Harvest	Shelterwood	42290 - Natural Mixed Pine	Planting Record	No
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Prescription Remove all oak species 2 inches and up. Do not cut pine, and protect pine seedlings. Add the soft factor oak wilt spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Jack, red, and white pine mixed with oak.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

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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
30 73015030-Cut	6.7	42110 - Planted Red Pine	9	70	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 90 BA. Follow marking guideline. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
37 73015037-Cut	14.9	42100 - Planted White Pine	6	66	111-140	Harvest	Thinning	4210 - Planted White Pine	Planting Record	No
<u>Prescription</u> Crown thin the white pine, and remove all non-pine species. Thin to 120 BA or lower if needed to remove non-pine species. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> White pine <u>Regen:</u> <u>Other</u> Only corners found were the south line. <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										
38 73015038-Cut	6.7	42100 - Planted White Pine	6	66	111-140	Harvest	Thinning	4210 - Planted White Pine	Planting Record	No
<u>Prescription</u> Crown thin the white pine, and remove all non-pine species. Thin to 120 BA or lower if needed to remove non-pine species. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> White pine <u>Regen:</u> <u>Other</u> Only corners found were the south line. <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										
43 73015043-Cut	36.1	42110 - Planted Red Pine	8	91	81-110	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Planting Record	No
<u>Prescription</u> Remove the overstory, and protect the understory. Apply the soft oak wilt spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Oak, maple, and pine. <u>Regen:</u> <u>Other</u> Only corner found is in the county road, where Kirby meets Clarence. <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										

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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
45 73015045-Cut	13.4	42110 - Planted Red Pine	7	91	1-50	Harvest	Overstory Removal	4125 - Black, N. Pin Oak	Planting Record	No
<u>Prescription</u> Remove the overstory red pine leaving retention islands, in areas with little to no understory development. Soft factor oak wilt spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Oak, maple, and conifer mixed in. <u>Regen:</u> <u>Other</u> Corners found in the county road to the north as well as at the end of the two track behind berm to the south. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
46 73015046-Cut	5.0	42220 - Natural Jack Pine	4	67	111-140	Harvest	Clearcut	4125 - Black, N. Pin Oak	Planting Record	No
<u>Prescription</u> Clearcut 2 inch and up, without retention due to size. Soft factor oak spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Oak, maple and conifer mixed in. <u>Regen:</u> <u>Other</u> Corners found in the county road to the north as well as at the end of the two track behind berm to the south. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
52 73015052-Cut	30.6	42110 - Planted Red Pine	8	76	51-80	Harvest	Overstory Removal	4125 - Black, N. Pin Oak	Planting Record	No
<u>Prescription</u> Remove all overstory trees. Protect the understory, and add the oak wilt soft spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Oak, pine, and some maple. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
70 73015070-Cut	2.0	42260 - Natural Pine, Mixed Deciduous	6	80	81-110	Harvest	Thinning	42290 - Natural Mixed Pine	Planting Record	No
<u>Prescription</u> Thin stand by removing the deciduous canopy trees. Then thin the remaining pine down to 70 BA in accordance with the VDT variable density thinning guidance. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
74 73015074-Cut	14.7	42111 - Planted Red Pine, Mixed Deciduous	8	76	81-110	Harvest	Overstory Removal	4126 - White, Black, N. Pin Oak	Planting Record	No
<u>Prescription</u> Remove the overstory excluding white oak. Apply the soft factor oak spec as well as, the seedling protection spec. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Maple, oak, aspen, and pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
75 73015075-Cut	8.2	6112 - Lowland Aspen	8	52	51-80	Harvest	Clearcut	6112 - Lowland Aspen	Planting Record	No
<u>Prescription</u> Clearcut 2 inch and up. Apply the Gladwin grouse spec, and the dry frozen spec. Add the no chipping spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, oak, maple <u>Regen:</u> <u>Other</u> A forested drain will be needed to cross. I could not find a defined bed and bank, should not need a EGLE permit to cross. Reevalue when <u>Comment:</u> timber is being set-up. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
86 73015086-Cut	12.8	42101 - Planted White Pine, Mixed Deciduous	8	66	81-110	Harvest	Thinning	4210 - Planted White Pine	Planting Record	No
<u>Prescription</u> Crown thin the white pine, and remove all non-pine species. Thin to 120 BA or lower if needed to remove non-pine species. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Survey corners were not found on the south line of stand. <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										
92 73015092-Cut	18.9	42110 - Planted Red Pine	9	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 90BA. Follow the marking guidelines <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
97 73015097-Cut	12.5	42110 - Planted Red Pine	9	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 90BA, follow marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
103 73015103-Cut	16.5	42110 - Planted Red Pine	9	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 90BA, follow standard marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
107 73015107-Cut	1.4	42110 - Planted Red Pine	6	70	201+	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 120BA, follow standard marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
109 73015109-Cut	29.2	42110 - Planted Red Pine	6	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine to 90BA, follow the marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Survey corners are in and where found during inventory. Will also need a ELGE permit to cross the unnamed creek to the North. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
112 73015112-Cut	22.6	42110 - Planted Red Pine	6	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine to 90 BA, follow marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
114 73015114-Cut	2.9	42110 - Planted Red Pine	6	70	201+	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine to 120BA follow marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Unknown Access <u>Proposed Start Date:</u> 10/01/2026										
117 73015117-Cut	8.3	42110 - Planted Red Pine	9	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 90BA, follow marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
123 73015123-Cut	1.7	42110 - Planted Red Pine	9	70	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 120BA. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
124 73015124-Cut	21.3	42110 - Planted Red Pine	6	70	201+	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 120BA, follow the marking guidance, <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> A EGLE permit will be required to cross this unnamed creek to access these two stands. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
127 73015127-Cut	6.4	42110 - Planted Red Pine	9	78	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 120 BA, follow standard marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										
129 73015129-Cut	14.3	42110 - Planted Red Pine	9	89	111-140	Harvest	Overstory Removal	4125 - Black, N. Pin Oak	Planting Record	No
<u>Prescription</u> Remove the overstory red pine. Apply the seedling protection spec, as well as, the soft factor oak wilt spec. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Will need the survey corner in the north to be established before timber can be set up. <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										
131 73015131-Cut	26.3	4125 - Black, N. Pin Oak	3	22	Immature	Harvest	Overstory Removal	4122 - Oak, Pine	Planting Record	No
<u>Prescription</u> Remove the overstory red pine. Apply the soft factor oak wilt spec, as well as, the seedling protection spec. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
132 73015132-Cut	60.4	42110 - Planted Red Pine	6	78	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine to 90 BA, follow the standard marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
135 73015135-Cut	31.2	42110 - Planted Red Pine	6	78	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin the red pine down to 90 BA, follow the standard marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> The survey corner on the north and south line where found. The south line will have to utilize the corner on Stockwell road. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
172 73015172-Cut	15.9	42110 - Planted Red Pine	8	78	51-80	Harvest	Overstory Removal	4125 - Black, N. Pin Oak	Planting Record	No
<u>Prescription</u> Remove the red pine overstory. Apply the soft factor oak spec as well as, the seedling protection spec. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> oak, jack and red pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
183 73015183-Cut	43.9	42110 - Planted Red Pine	9	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 90 BA, follow marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
193 73015193-Cut	159.8	42110 - Planted Red Pine	8	76	1-50	Harvest	Overstory Removal	4122 - Oak, Pine	Planting Record	No
<u>Prescription</u> Remove overstory red pine. Apply the seedling protection spec as well as, the soft factor oak wilt spec. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
195 73015195-Cut	7.1	42110 - Planted Red Pine	8	70	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 90BA, follow standard marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
199 73015199-Cut	57.7	42110 - Planted Red Pine	6	77	81-110	Harvest	Shelterwood	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine to 40 BA to act as a nurse shelterwood. Apply the soft factor oak wilt spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Oak, pine, and maple. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

Total Treatment 730.4
Acreage Proposed:

Report 4 – Site Conditions



Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions						
Acres	Available	With Condition	Not Available		2B	2I	2G	2H	3A	5E
538	529	0	9	Aspen			2			7
64	0	0	64	Cedar			64			
16	17	0	0	Herbaceous Openland						
354	354	0	0	Jack Pine						
8	8	0	0	Low-Density Trees						
190	163	0	27	Lowland Aspen/Balsam Poplar			27			
86	11	0	76	Lowland Conifers			76			
909	311	0	599	Lowland Deciduous			585		14	
10	0	0	10	Lowland Mixed Forest			10			
246	246	0	0	Lowland Shrub						
82	72	0	10	Mixed Upland Deciduous			5	6		
42	42	0	0	Natural Mixed Pines						
476	476	0	0	Oak						
121	121	0	0	Planted Mixed Pines						
1102	1004	60	39	Red Pine	3	57				39
125	107	0	18	Upland Mixed Forest				18		
2	2	0	0	Urban						
122	123	0	0	Water						
44	10	34	0	White Pine		34				
4,537	3,592	94	851	Total Forested Acres	3	91	768	24	14	45
	79%	2%	19%	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	Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available		2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Gladwin Mgt. Unit
Casey Owens: Examiner

Compartment: 15
Year of Entry: 2027



2	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	2I: Survey needed	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The corners along the north line east and west.							
4	Available	2I: Survey needed	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	2I: Survey needed	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	126	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Casey Owens: Examiner

Compartment: 15
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9	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	2B: Unknown if access through adjacent landowner(s) is possible	3				
Comments:							
14	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	56	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	56	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Casey Owens: Examiner

Compartment: 15
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18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	50	2F: Too steep	3J: Water quality/BMPs (stream, river, or lake)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified
Comments: In the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	255	2F: Too steep	3J: Water quality/BMPs (stream, river, or lake)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified
Comments: In the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.							
22	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Casey Owens: Examiner

Compartment: 15
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26	Unavailable	3A: Conservation values incompatible with harvest at this time	14	2F: Too steep	3J: Water quality/BMPs (stream, river, or lake)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2G: Too wet (sensitive soils, does not include access issues)
Comments: ERA-Muskegon River/ Huckleberry Trail, Floodplain Forest. In the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	2F: Too steep	3J: Water quality/BMPs (stream, river, or lake)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified
Comments: In the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	2F: Too steep	3J: Water quality/BMPs (stream, river, or lake)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified
Comments: In the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	2F: Too steep	3J: Water quality/BMPs (stream, river, or lake)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified
Comments: In the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Casey Owens: Examiner

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34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
63	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	149	3J: Water quality/BMPs (stream, river, or lake)	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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	44.1	5	Immature	N/A	Overstory removal under contract County Line Mix 73-016-17 in 2019-2020. Oak regeneration left. Red pine and jack pine planted in 1937. All jack pine and oak removed in 1998. Thinned again 2009. High quality red pine. Red pine BA/AC 123. Very dense well established oak understory 10' tall and 1 inch DBH. 16' - 18' DBH red pine within stand. Close trail into stand off M-61.
Canopy Species		% Cover	Size Class	DBH	Age		
Black/Red (Hybrid) Oak		50	Log	1	5		
Choke Cherry		10	Log	1			
Red Pine		20	Log	1			
2	4125 - Black, N. Pin Oak	Sapling Well	9.0	23	Immature	N/A	Growing wellFinal harvest 2002. Mix of natural regeneration.
Canopy Species		% Cover	Size Class	DBH	Age		
Northern Pin Oak		60	Log	2	23		
Jack Pine		20	Log	2	23		
Quaking Aspen		15	Log	2	23		
Red Pine		5	Log	2	23		
3	500 - Water	None	76.5			No	Muskegon River.
4	42110 - Planted Red Pine	Poletimber Well	1.6	69	111-140	N/A	Left un-cut when stand 111 was harvest. Retention pocket.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		100		12	69		
5	4125 - Black, N. Pin Oak	Sapling Well	13.3	15	Immature	N/A	Final harvest 2" spec manage for aspen regeneration. Stand is expected to regenerate to aspen. Scattered low wet areas within stand. Adjacent stand 194(L type) meanders all around this stand. Apply retention around stand 194. MDNR recently acquired the 40 that makes up the west 1/2 of this stand. Variable stand in terms of species composition. Currently under timber sale contract 73-029-10-01 Huckleberry Trail Harvest
Canopy Species		% Cover	Size Class	DBH	Age		
White Oak		15	Log	3	15		
Black/Red (Hybrid) Oak		60	Log	3	15		
White Pine		5		15	63		
Red Pine		10	Log	3			
Black Cherry		10	Log	3			
6	6220 - Alder/Willow	None	22.6			No	Creek bottom stand.
7	4125 - Black, N. Pin Oak	Sapling Well	65.9	25	Immature	N/A	Red pine and jack pine planted in 1937. All jack pine and oak removed in 1998. Dense O3 understory has resulted from partial harvest in 1998. All red pine cut in spring of 2011, Clareola Red Pine, 73-012-07-01
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		15	Pole	4	25		
Red Pine		5	Sapling	5	25		
Northern Pin Oak		80	Pole	4	25		

Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments																																															
8	4125 - Black, N. Pin Oak	Sapling Well			27.3	20	Immature	N/A	Most of old overstory has fallen out not worth harvesting. Filing in well.																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Cherry</td><td>10</td><td>Log</td><td>4</td><td></td></tr><tr><td>White Pine</td><td>10</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Jack Pine</td><td>5</td><td>Log</td><td>2</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>75</td><td>Log</td><td>3</td><td>20</td></tr></table>					Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	10	Log	4		White Pine	10	Sapling	5		Jack Pine	5	Log	2		Black/Red (Hybrid) Oak	75	Log	3	20	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Sweet Fern</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Sweet Fern	Low	5 - 10 feet	5 - 10 feet	Partial harvest 2009 residual oak reduced down to 10 - 20 sq. ft. to stimulate oak regeneration. A mix of natural regeneration of mixed oak, red maple and jack pine is coming along. Do not remove over story at this time. Over story is not worth removing. Oak understory is doing very well.														
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9	42220 - Natural Jack Pine	Poletimber Medium			6.9	59	111-140	N/A	Could harvest this year of entry. Left when adjacent timber was harvested. Hold 10 years till stand 18 gets established 10 more years.																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>75</td><td>Seedling</td><td>9</td><td>59</td></tr><tr><td>Northern Pin Oak</td><td>25</td><td>Seedling</td><td>7</td><td></td></tr></table>					Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	75	Seedling	9	59	Northern Pin Oak	25	Seedling	7		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Northern Pin Oak</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Jack Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Northern Pin Oak	Medium	Variable	Variable	Jack Pine	Medium	Variable	Variable																					
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10	622 - Lowland Shrub	None			4.6			No																																																
11	622 - Lowland Shrub	None			8.8			No																																																
12	42100 - Planted White Pine	Poletimber Well			6.6	66	141-170	N/A	Large variations in diameter (16 - 8) and ba 80 - 220). White pine planted in 1959. Scattered jack pine and oak. 15% - 20% weevil damage.																																															
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13	4199 - Other Mixed Upland Deciduous	Poletimber Well			4.6	58	81-110	N/A	Overstory oak is starting to fall out. Red maple understory 30' to 35' tall. Stand was thinned in 1967. The stand is between two "L" types. Scattered white pine and red pine saw logs. Hold and evaluate next year of entry. Lots of harvesting in this area recently and maple under story will become more established. Converting to red maple poles under scattered mature oak (O7).																																															
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14	6130 - Fir, Aspen, Maple	Poletimber Well			9.7	80	51-80	N/A	To wet to harvest. Stand is a drain. Cut to the north and south.																																															
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15	42110 - Planted Red Pine	Sawtimber Well	8.3	91	141-170	N/A	Red pine and jack pine planted in 1937. All jack pine and oak removed in 1991. Dense O3 understory has resulted from partial harvest in 1991. Long term retention from stand 44. When Kirby Pine 73-016-09-01 was cut.																													
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16	500 - Water	None	4.0			No	Stand is in the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.																													
17	4139 - Aspen, Mixed Deciduous	Sapling Medium	11.7	13	Immature	N/A	Clearcut spring 2012, scattered white pine left. Huckleberry Trail 73-004-07-01. The regeneration was checked in May 2016. Comments: The South half of the stand is heavy to aspen. In that area the crown closure is closer to 100%. The north half of the stand is heavier to maple. In that area the crown closure is closer to 25%. So the stand averages 50-75% crown closure. There is some residual oak saws and white pine pole/log. The residual oak has some mortality.																													
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18	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	44.8	15	Immature	N/A	Final harvest 2009. FTP C73-830 submitted. Planted to red pine 5/2010, FTP C73-830. 10/23/2019 stand split in half & northern portion was prescribed for a TSI Hand Mechanical thinning. Competition is too dense and tall to treat now. Treatment dropped and stand approved to accept current cover type.																													
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19	4125 - Black, N. Pin Oak	Sapling Medium	16.4	4	Immature	N/A	Stand cut under County Line Mix 73-016-17 spring of 2021.Inclusion of "L" pocket at south end of stand. Semi open areas. Pole sized jack pine with mature mixed oak. Oak understory is in place.																													
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20	4131 - Aspen, Oak	Sapling Medium	29.0	4	Immature	N/A	Stand cut under contract County Line Mix 73-016-17 in Spring 2021. Clearcut in 1967. Residual hardwood from 1967 cut. Hold 10 years, overall the size of the timber is a little small.																													
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21	622 - Lowland Shrub	None	6.6			No																														

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22	4125 - Black, N. Pin Oak	Poletimber Well	13.3	58	51-80	N/A	Stand was thinned in 1967. A very dense mixed understory has resulted from the harvest. The understory is reaching pole size. Overstory is naturally falling apart. Manage for understory - overstory very poor and is a natuarl supply of course woody debris.																																											
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23	4132 - Aspen, Jack Pine	Poletimber Well	55.8	25	Immature	N/A	Final harvest 2000 - Good natural mix of regeneration - A3/ A3-O1-J1-Mr1.																																											
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24	6229 - Mixed Lowland Shrub	None	1.3			No	Small open wetland pocket																																											
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25	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	17.3	12	Immature	N/A	Clearcut spring 2012 Huckleberry Trail 73-004-07-01. FTP C73-828 submitted trench and plant red pine. Red pine planted 4/26/2013. Plots taken in December 2021 showed 1800 stems/acre of competition. Stand prescribed and treated with TSI in August 2022.																																											
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26	42110 - Planted Red Pine	Poletimber Well	20.8	25	Immature	N/A	Final harvest 2000. Replanted to red pine. Mix of O1 and J1 mixed in as well. FTP # C73-667 - replanted / fill in with red pine 5/17/2007.																																											
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Northern Pin Oak</td><td>10</td><td>Log</td><td>3</td><td>25</td></tr><tr><td>Jack Pine</td><td>20</td><td>Log</td><td>4</td><td>25</td></tr><tr><td>Red Pine</td><td>70</td><td>Seedling</td><td>5</td><td>25</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Northern Pin Oak	10	Log	3	25	Jack Pine	20	Log	4	25	Red Pine	70	Seedling	5	25																												
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27	4130 - Aspen	Sapling Well	7.7	14	Immature	N/A	Clear cut 2011. Decent mix of natural regeneration. Final harvest 2" spec manage for aspen regeneration. Scattered low areas harvest on dry or frozen ground to prevent rutting on heavy soils. Apply retention along L type along Dishwash Creek and leaving scattered super canopy oak and white pine. Visual management should be considered, home directly adjacent to stand. A mix of aspen, maple and oak regeneration is expected. Tim Gallagher 08/18/2014: Clear cut 2011 Whiskey River Pine 73-005-10-01																																											
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>30</td><td>Log</td><td>2</td><td>14</td></tr><tr><td>Quaking Aspen</td><td>50</td><td>Log</td><td>2</td><td>14</td></tr><tr><td>Red Maple</td><td>10</td><td>Log</td><td>2</td><td>14</td></tr><tr><td>Northern Pin Oak</td><td>10</td><td>Log</td><td>2</td><td>14</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Bigtooth Aspen	30	Log	2	14	Quaking Aspen	50	Log	2	14	Red Maple	10	Log	2	14	Northern Pin Oak	10	Log	2	14																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
28	4130 - Aspen	Poletimber Well	6.1	34	Immature	N/A	Clearcut in 1991, heavy aspen regeneration.																																																						
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29	4126 - White, Black, N. Pin Oak	Sawtimber Medium	9.8	80	51-80	N/A	Large oaks are starting to fall out of stand. Expected to flip to a pine stand within next cycle.Small pocket of oak that was left when surrounding stands were cut. Several deer camps in the stand. Big tree management in an area that has been harvested. (mast, course woody debris, diversity, wildlife, camp area, seed)																																																						
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Jack Pine	15	Seedling	9		White Pine	Low	Variable	Variable																																																					
30	42110 - Planted Red Pine	Sawtimber Well	6.7	70	111-140	N/A	Thinned in 2012. Decent red pine good access and strait rows. Crowns not closed from past thinning. Wait 10 yrs. and thin. Third row thinned 5/9/2000. Reduce BA/AC to 120 by individual tree marking. Tim Gallagher 08/18/2014: Thinned 2012 Whiskey River Pine 73-005-10-01																																																						
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31	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	34.1	60	141-170	N/A	Low wet site, mucky soils. Adjacent to Giss-I-Was Creek, down over a steep bank.																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Eastern Red Cedar</td><td>30</td><td></td><td>12</td><td></td></tr><tr><td>Red Maple</td><td>25</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Balsam Fir</td><td>45</td><td>Sapling</td><td>6</td><td>60</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Eastern Red Cedar	30		12		Red Maple	25	Seedling	8		Balsam Fir	45	Sapling	6	60																																		
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32	6120 - Lowland Cedar	Poletimber Well	7.8	114	171-200	N/A	Dense stand of old cedar, balsam fir, and hemlock. Cedar and balsam fir.																																																						
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33	6123 - Lowland Fir	Poletimber Well	12.6	38	51-80	N/A	Habitat cut in 1988.																																																						
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34	622 - Lowland Shrub	None	87.7			No	Wetland grasses mixed with tag alder.Giss-I-Was Creek bottom lands.																																																						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
35	4311 - Pine, Aspen Mix	Poletimber Well	18.0	80	51-80	N/A	Habitat cut left an outer edge of pine about 80 years old. Aspen the regenerated is poor and sparce. Has nursed along a strong white pine understory. Habitat cut in 1967. Access concerns with this stand. A few semi open areas.7/20/23: Updated to non-OI cover type.																																																
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36	4139 - Aspen, Mixed Deciduous	Sapling Medium	13.7	24	Immature	N/A	Regeneration is patchy and poor form.Fianl harvest 2000. Decent regeneration.																																																
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37	42100 - Planted White Pine	Poletimber Well	14.9	66	111-140	N/A	White pine underplanted in 1959. All but white pine removed in 1997. Skid trails cut through the pine.																																																
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38	42100 - Planted White Pine	Poletimber Well	6.7	66	111-140	N/A	White pine underplanted in 1959. All jack pine and marked oak removed in 1997. The oak that was left is at least 50% dead and most of this is on the ground.																																																
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39	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	12.4	33	Immature	N/A	Final harvest 1992. Good mix of natural regeneration J3/O1-A1-Mr1.																																																
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40	6220 - Alder/Willow	None	11.5			No	Mostly tag alder and standing water a few scattered areas of A1 and J1.																																																

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41	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	15.3	33	Immature	N/A	Final harvest in 1992. Mix of natural regeneration J3/A2-O1-Mr1.																																								
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42	6120 - Lowland Cedar	Poletimber Well	56.1	95	171-200	N/A	Very wet dense stand. Down over the bank. Giss - I - Was Creek bi-sects stand. Includes marsh grass, standing water, tag alder etc.																																								
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43	42110 - Planted Red Pine	Sawtimber Medium	36.1	91	81-110	N/A	Red pine and jack pine planted in 1939. 2012 thinning removed all jack pine and oak. Red pine residual reduced 60' to 70' sq ft. The residual red pine will act as a nurse crop to stimulate oak regeneration. Stand was thinned 5/2012 Kirby Pine 73-016-09-01. Oak understory is getting well established.																																								
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44	4125 - Black, N. Pin Oak	Sapling Well	114.4	32	Immature	N/A	Red pine and jack pine planted in 1937. All jack pine and oak removed in 1991. Dense O3 understory has resulted from partial harvest in 1991. CC w/ reserves 8/2013. Kirby Pine 73-016-09-01. Well established oak understory has been released.																																								
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45	42110 - Planted Red Pine	Sawtimber Poor	14.7	91	1-50	N/A	Red pine and jack pine planted in 1939. Shelterwood Seed harvest 5/2012. Kirby Pine 73-016-09-01. Oak understory is getting well established.																																								
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46	42220 - Natural Jack Pine	Poletimber Poor	5.0	67	111-140	N/A	Almost all jack pine have fallen out of the stand. Regeneration is strong, rest of living jack pine is not far behind. Was released cut in February of 1975Ground cover is moss and blueberry. Lower than surrounding stands. Hold as there has been a lot of harvesting activity in the last 10 years.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																							
47	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	87.9	15	Immature	N/A	Clearcut 2009 - FTP C73-854 to interplant red pine submitted. Planted to red pine 5/2010, FTP C73-854. Stand was prescribed for TSI hand mechanical thinning. Treatment was dropped due to dense and tall competition. Stand has been approved to accept current cover type.																							
Canopy Species		% Cover	Size Class	DBH	Age																									
Red Pine		55	Log	2	15																									
Jack Pine		15	Log	2	15																									
48	4125 - Black, N. Pin Oak	Sapling Medium	23.3	16	Immature	N/A	Stand was clear-cut in 2009 following wind damage. All red pine removed to release oak that is in understory.																							
Canopy Species		% Cover	Size Class	DBH	Age																									
Red Pine		15	Log	2	16																									
Jack Pine		10	Log	2	16																									
Northern Pin Oak		75	Log	2	16																									
49	4122 - Oak, Pine	Sapling Well	29.8	16	Immature	N/A	Overstory removed in 2009 following wind damage.																							
Canopy Species		% Cover	Size Class	DBH	Age																									
White Oak		10	Log	4																										
Red Pine		10	Log	4	16																									
White Pine		15	Seedling	6																										
Jack Pine		15	Log	4	16																									
Northern Pin Oak		50	Log	4	16																									
50	6113 - Lowland Maple	Sawtimber Well	76.2	80	111-140	N/A	A lowland stand with slight upland ridges intermixed.																							
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size																				
Swamp White Oak		10		8		Hawthorn (spp.)		Trace	5 - 10 feet	5 - 10 feet																				
Black/Red (Hybrid) Oak		10	Seedling	8		Prickly Ash		Medium	5 - 10 feet	5 - 10 feet																				
Red Maple		20		10		Black/Red (Hybrid) Oak		Low	Variable	Variable																				
Silver Maple		55		15	80	Red Maple		Low	Variable	Variable																				
American Elm		5	Seedling	8																										
51	310 - Herbaceous Openland	None	5.5			No		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Indian Grass</td><td>High</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Blackberry/Raspberry</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Little Bluestem</td><td>Medium</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Spotted Knapweed</td><td>Low</td><td>Not Applicable</td><td>Not Applicable</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Indian Grass	High	Not Applicable	Not Applicable	Blackberry/Raspberry	Medium	5 - 10 feet	5 - 10 feet	Little Bluestem	Medium	Not Applicable	Not Applicable	Spotted Knapweed	Low	Not Applicable	Not Applicable
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Stand with split from the planted red pine to the East. Mostly warm season grasses with rubus patches mixed in.Scattered aspen clones. The southern arm is filling in with jack pine and aspen. Stand was thinned summer 2014. The stand was planted in 2015. Regeneration was checked and portions of the stand is not fully stocked so scheduled for replant in 2020.																														
52	42110 - Planted Red Pine	Sawtimber Medium	30.6	76	51-80	N/A	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>Full</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Variable	Black/Red (Hybrid) Oak	Full	Variable	Variable	Red Pine	Medium	Variable	Variable					
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Canopy Species		% Cover	Size Class	DBH	Age	Thinned 2018 Kirby Pine 73-002-17.																								
Red Pine		100		14	76																									

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
53	4130 - Aspen	Sapling Well	12.6	13	Immature	N/A	Clearcut spring 2012 Huckleberry Trail 73-004-07-01. The regeneration was checked in May 2016. Comment: The stand has some wet areas. The aspen is mainly quaking. There are some scattered maple and oak. The stand has good density throughout most of it. The main sparse areas are at the south end.			
Canopy Species		% Cover	Size Class	DBH	Age					
Quaking Aspen		80	Log	2	13					
Red Maple		7	Log	2	13					
Balsam Fir		3	Log	1	13					
Northern Pin Oak		10	Log	2	13					
54	6113 - Lowland Maple	Poletimber Well	59.6	110	111-140	N/A	Stand is in the Muskegon River flood plain. Wet mucky soils. Areas of tag alder, cattails, standing water and dogwood.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		15		12		Balsam Fir		High	Variable	Variable
Silver Maple		60		15	110	Tag Alder		Low	5 - 10 feet	5 - 10 feet
Balsam Fir		20	Sapling	6		Silver Maple		Low	Variable	Variable
White Pine		5		10						
55	4310 - Pine, Oak Mix	Poletimber Well	44.1	30	Immature	N/A	Final harvest in 1995. Mix of natural regeneration J3/O2-Mr1. White pine left at south end of stand.			
Canopy Species		% Cover	Size Class	DBH	Age					
Black Cherry		5	Sapling	5						
Jack Pine		50	Seedling	5	30					
Northern Pin Oak		40	Seedling	6	30					
White Pine		5	Sapling	5						
56	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	13.3	27	Immature	N/A	OPIC - FMD: Final harvest 1998. Planted to jack pine in 1998.			
Canopy Species		% Cover	Size Class	DBH	Age					
Northern Pin Oak		35	Log	2	27					
White Pine		5	Log	2	27					
Jack Pine		60	Log	2	27					
57	6112 - Lowland Aspen	Sawtimber Well	12.1	60	51-80	N/A	Stand was once part of clearcut to the north. This portion never got cut due to saturated soils. Stand is sparse in areas. Should harvest now. Wet pockets, hummocky ground, wet types to the east and west. Pocket of jack pine/spruce along M-61.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black/Red (Hybrid) Oak		10		8		Red Maple		Medium	Variable	Variable
Quaking Aspen		68		10	60					
Red Maple		12		9						
Bigtooth Aspen		10		10	60					
58	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	46.6	15	Immature	N/A	Final harvest 2009. FTP C73-830 submitted. Planted to red pine 5/2010, FTP C73-830.			
Canopy Species		% Cover	Size Class	DBH	Age					
Northern Pin Oak		20	Log	1	15					
Red Maple		5	Log	1	15					
Red Pine		65	Log	1	15					
Jack Pine		10	Log	1	15					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
59	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	12.9	13	Immature	N/A	Clear-cut spring 2012 Huckleberry Trail 73-004-07-01. To release oak regeneration that was in place. Harvest did not go over steep bank leading down to the Muskegon River back waters. Good mix of natural regeneration. Many new cabins on surrounding private land. The regeneration was checked in May 2016. Comments: The stand is a mix of Jack pine, red pine, oak and cherry. The jack pine is> 3ft tall, the oak is < 5 ft. tall, the other pines are < 3ft tall, the cherry is > 5 Ft. The stand has a lot of slash.			
Canopy Species		% Cover	Size Class	DBH	Age					
Pin Cherry		20	Log	1						
Northern Pin Oak		45	Log	1	13					
White Pine		5	Log	1	13					
Jack Pine		25	Log	1	13					
60	42110 - Planted Red Pine	Sapling Well	12.0	8	Immature	N/A	Clear-cut 2009 following severe wind damage.Trenched and planted to red pine. Trenched 2016 and planted 5/8/2017. Stand missed on FY 2021 artificial regen surveys and did not make the release spray list. Set artificial regen survey to FY 2022, with a release spray of FY 2023 if needed. Artificial regen survey and release spray were both missed on POW. Decision made at unit level to accept current stand cover type. The NW corner has a 1.5 acre chunk that was part of a restored well site. Red pine was planted, but the survival is low.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Jack Pine		5	Log	2		White Pine		Medium	Variable	Variable
Black Cherry		5	Log	2						
White Pine		10		12						
Black/Red (Hybrid) Oak		5	Log	2						
Red Pine		75	Log	2	8					
61	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	47.1	34	Immature	N/A	Final harvest 1991. Mix of natural regeneratrion. J3/O1-Mr1-A1.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Jack Pine		70	Pole	4	34	White Pine		Low	Variable	Variable
Northern Pin Oak		10	Pole	4	34	Pin Cherry		Low	Variable	Variable
Quaking Aspen		10	Pole	4	34	Jack Pine		Medium	5 - 10 feet	5 - 10 feet
Red Maple		10	Pole	4	34					
62	4311 - Pine, Aspen Mix	Poletimber Medium	22.7	52	51-80	N/A	Aspen only in a few pockets, mostly a stand of decent jack pine.Habitat cut 1973. Oak and some white pine were left. Just starting to reach pole size. Marginal aspen site.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Jack Pine		45		11	52	Pin Cherry		Low	Variable	Variable
Bigtooth Aspen		10	Sapling	5		Quaking Aspen		Trace	>20 feet	>20 feet
Black/Red (Hybrid) Oak		15	Seedling	9		White Pine		Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen		15	Sapling	5	30	Black/Red (Hybrid) Oak		Low	Variable	Variable
White Pine		5	Sapling	5						
Red Maple		10	Seedling	8						
63	6113 - Lowland Maple	Sawtimber Well	100.4	100	81-110	N/A	Very wet mucky soils. Commercial harvest not feasible. EAB well established in the ash and taking a toll on all the ash.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		5	Seedling	7		Ash (spp.)		Low	Variable	Variable
Balsam Fir		20	Sapling	7		Deciduous Shrubs		Low	5 - 10 feet	5 - 10 feet
Northern White Cedar		5	Seedling	7		Red Maple		Low	Variable	Variable
Black Ash		5	Sapling	6		Balsam Fir		Low	Variable	Variable
Red Maple		60		10	100	Tag Alder		Low	5 - 10 feet	5 - 10 feet
White Pine		5	Seedling	7						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
64	4126 - White, Black, N. Pin Oak	Poletimber Well	46.1	30	Immature	N/A	Final harvest 1995. Stump sprout oak and seed source oak. Mix of natural regeneration O3/J1-Mr1-A1.																																																	
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65	42290 - Natural Mixed Pine	Poletimber Well	5.0	65	81-110	N/A	Final harvest 1997.																																																	
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66	110 - Low Intensity Urban	None	0.2				Consumers Energy gas well pad.																																																	
67	3102 - Grass	None	0.2				Consumers Energy gas well pad.																																																	
68	6123 - Lowland Fir	Poletimber Well	29.9	83	111-140	N/A	Access is limited. Aspen is on the decline, converting to Mr, ash and oak. Overall stand is very wet. Commercial harvest would only be possible on 100% frozen ground. Possible habitat cut. However, regeneration is a concern as aspen is past its prime and on the decline. The stand may convert to lowland brush if cut.																																																	
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69	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	25.4	129	81-110	N/A																																																		
70	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	2.0	80	81-110	N/A	White and red pine mixed with some smaller hardwood.Scattered wet pockets. Clearcut in 1985. In transition between well stocked A3 and A6.																																																	
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71	110 - Low Intensity Urban	None	0.1				Consumers Energy gas well pad.																																																	

Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
72	6113 - Lowland Maple	Poletimber Well			133.7	85	111-140	N/A	Stand is in the Muskegon River flood plain. Stand floods in sprng and periods of rain. Scattered pockets of cedar, hemlock and balsam fir. Old river oxbows all over the place.																																																					
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73	4125 - Black, N. Pin Oak	Sapling Medium			9.7	13	Immature	N/A	Aspen in patches with occasional intermixed 4" DBH spec. Clearcut spring 2012 Huckleberry Trail 73-004-07-01. Scattered mature red pine and oak left.The regeneration was checked in May of 2016. Comment: The stand has regenerated well. Most of the oak is <5 feet tall, so it is not established There is a noticeable amount of pine seedling but they are < 3 feet tall. So they are not established either. The stand also has several aspen clones along the east side of the stand.																																																					
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74	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium			14.7	76	81-110	N/A	Understory is developing well.Selection harvest spring 2012 Huckleberry Trail 73-004-07-01. Red pine and jack pine planted in 1949. All jack pine, scattered aspen and marked red pine were cut. Residual red pine was reduced to 60' sq ft. to establish regeneration and release regeneration that is in place. Residual red pine will act as a nurse crop to establish oak regeneration. Hold and evaluate the results of harvest next year of entry.The regeneration was checked in May of 2016. Comment: The stand was harvested as a shelterwood retaining around 40 BA. The regeneration in the understory is patchy. Aspen is heavy along west side and maple in rest of stand. There are some pockets of oak regeneration as well.																																																					
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75	6112 - Lowland Aspen	Sawtimber Medium			11.5	52	51-80	N/A	Very wet ground. Dense tag alder and dog wood understory. Some type of habitat cut in the 70's. To wet for commercial harvest.																																																					
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76	42110 - Planted Red Pine	Sawtimber Well			4.4	88	81-110	N/A	Long term retention when stand 7 was cut.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
77	4133 - Aspen, Mixed Pine	Sapling Medium	88.9	10	Immature	N/A	Regenerating well passes regeneration check during inventory of 2025. Canopy is about 70 percent filled in. Clear-cut winter 2014/2015. All oak and marked pine were left. Railroad Sale 73-19-011-01			
Canopy Species		% Cover	Size Class	DBH	Age					
White Pine		15	Log	1						
Black/Red (Hybrid) Oak		10	Log	1						
Quaking Aspen		20	Log	1	10					
Bigtooth Aspen		40	Log	1	10					
Jack Pine		15	Log	1						
78	110 - Low Intensity Urban	None	0.1				Consumers Energy gas well. "Plugging completed", No plug date in EGLE Database.			
79	110 - Low Intensity Urban	None	0.1				Consumers Energy gas well pad.			
80	110 - Low Intensity Urban	None	0.1				Consumers Energy gas well pad.			
81	42110 - Planted Red Pine	Sawtimber Well	5.5	88	111-140	N/A	Retention islands left in contract County Line Mix 73-016-17Red pine and jack pine planted in 1937. All jack pine and oak removed in 1998. Thinned again 2009. High quality red pine. Red pine BA/AC 123. Very dense well established oak understory 10' tall and 1 inch DBH. 16' - 18' DBH red pine within stand. Close trail into stand off M-61.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		100		16	88	Northern Pin Oak		Full	Variable	Variable
82	42100 - Planted White Pine	Poletimber Well	2.9	66	141-170	N/A	Good growth and size for age.Mostly upland with a few scattered wet pockets. OPIC - FMD: Clearcut in 1985. Coming back very nice. In transition between well stocked A3 & A6.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		35		10	66	Black Cherry		Low	Variable	Variable
White Pine		65		12	66	Red Maple		Full	>20 feet	>20 feet
						Hawthorn (spp.)		Medium	5 - 10 feet	5 - 10 feet
						Paper Birch		Low	Variable	Variable
						Beech	Trace	Variable	Variable	
83	42110 - Planted Red Pine	Sawtimber Well	6.5	89	171-200	N/A	Retention islands left in contract County Line Mix 73-016-17Jack pine removed in 1993. Red pine thinned down to 90 sq. ft. in 2001. Decent oak regeneration as a result of the two thinnings. Stand will convert to oak when overstory red pine is removed. Oak understory is 20' tall.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		100		16	89	Jack Pine		Low	Variable	Variable
						Northern Pin Oak	Full	Variable	Variable	
84	622 - Lowland Shrub	None	0.8			No	Sub-Canopy Species	Density	Avg. Height	Size
						Alder				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
85	42250 - Pine, Oak	Sawtimber Well	6.1	40	111-140	N/A	Area left around the rail road.Retention islands left in contract County Line Mix 73-016-17Red pine and jack pine planted in 1937. All jack pine and oak removed in 1998. Thinned again 2009. High quality red pine. Red pine BA/AC 123. Very dense well established oak understory 10' tall and 1 inch DBH. 16' - 18' DBH red pine within stand. Close trail into stand off M-61.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	20		14	88	Northern Pin Oak	Full		Variable	Variable
Black/Red (Hybrid) Oak	40		8	40					
Jack Pine	40	Seedling	8	40					
86	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Medium	12.8	66	81-110	N/A	Final harvest 1997. 6" DBH spec. Good mix of natural regeneration. J3/O1-Mr1-A1. White pine residual at south end of stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	65		16	66	Norway Spruce	Low		Variable	Variable
Red Maple	10		15		Jack Pine	Medium		Variable	Variable
Black/Red (Hybrid) Oak	25		15	98	Red Pine	Low		Variable	Variable
					Black/Red (Hybrid) Oak	Low		Variable	Variable
					White Pine	Medium		Variable	Variable
87	4130 - Aspen	Sapling Well	2.6	50		N/A	Aspen with a small pocket of red pine the same age as the stand to the south. Dishwash Creek Bi-sects stand. Stand is almost completely within the buffer for cold water trout streams.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	60		15	50	Green Ash	Medium		Variable	Variable
Red Pine	5		11		Black/Red (Hybrid) Oak	Medium		Variable	Variable
Red Maple	25		10		Red Maple	High		Variable	Variable
Black/Red (Hybrid) Oak	10		10						
88	4130 - Aspen	Poletimber Well	6.5	63	51-80	N/A	Retention for stand 196.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	75	Seedling	6	63	Quaking Aspen	Medium		Variable	Variable
Red Pine	5	Seedling	6		Red Maple	Medium		Variable	Variable
Red Maple	20	Seedling	6	63					
89	500 - Water	None	1.7			No	Dammed area is dry during inventory 2024.Water, beaver.		
90	622 - Lowland Shrub	None	38.8			No	Creekbottom area, no merchantable timber, fair amount of standing dead soft maple.		
					Sub-Canopy Species	Density		Avg. Height	Size
					Willow spp.	Medium		5 - 10 feet	5 - 10 feet
					Tag Alder	Medium		5 - 10 feet	5 - 10 feet
91	4130 - Aspen	Poletimber Well	20.3	40	81-110	N/A	Holes in canopy are filling in with sapling class. Scattered wet pockets. Clearcut in 1985. In transition between well stocked A3 and A6.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	40	Seedling	8	40	Red Maple	Medium		>20 feet	>20 feet
Red Maple	15	Seedling	9	40	Beech	Low		Variable	Variable
Northern Pin Oak	5	Seedling	6	40					
Bigtooth Aspen	30	Seedling	8	40					
White Pine	10	Seedling	8						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
92	42110 - Planted Red Pine	Sawtimber Well	18.9	70	141-170	N/A	Thinned 2018. Kirby Pine 73-002-17.																																																												
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94	4130 - Aspen	Poletimber Well	18.5	42	111-140	N/A	Good growth and size for age, small white pine pocket to north.																																																												
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95	110 - Low Intensity Urban	None	0.9				Layline Oil and Gas well pad. Oil wells & Hydrogen sulfide on site.																																																												
96	6229 - Mixed Lowland Shrub	None	10.3			No	Tag alder.																																																												
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97	42110 - Planted Red Pine	Sawtimber Well	12.5	70	141-170	N/A	Every fourth row removed in 1984. Center row removed 5/9/2000. Every other row has now been cut. Decent quality red pine. Average red pine BA/AC 170' sq. ft. Stand would convert to mixed hardwood if clearcut. Thinned 2018. Kirby Pine 73-002-17.																																																												
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98	4130 - Aspen	Poletimber Well	5.3	42	81-110	N/A	OPIC - FMD: Clear cut in 1983, coming back nice. Few patches of red maple and alder. In transition between well stocked A3 & A6.																																																												
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Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments
99	6229 - Mixed Lowland Shrub	None			3.0			No	Tag alder.
Sub-Canopy Species		Density	Avg. Height		Size				
Tag Alder		Full	5 - 10 feet		5 - 10 feet				
100	4130 - Aspen	Sapling Well			5.8	34	51-80	N/A	Clearcut in 1991, coming back nice, some oak but not much.
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		10	Seedling	5	34				
Black/Red (Hybrid) Oak		10	Seedling	5	34				
Quaking Aspen		10	Seedling	5	34				
Bigtooth Aspen		70	Seedling	5	34				
101	3303 - Mixed Low Density Trees	None			6.3			No	Blueberry, leather leaf, tag alder, open water, marsh grass, pockets of trees.
Sub-Canopy Species		Density	Avg. Height		Size				
Red Pine		Low	>20 feet		>20 feet				
Bigtooth Aspen		Low	>20 feet		>20 feet				
Paper Birch		Low	>20 feet		>20 feet				
102	4130 - Aspen	Sapling Well			11.0	4	Immature	N/A	Stand cut under County Line Mix 73-016-17 in winter 2020-spring 2021. Mostly upland with low forested drain along red pine stand to the south. Private 40 to the north has been recently surveyed, line is staked and looks good. Have to cross corner of private to the north for access or build road south to Stockwell Road. OPIC - FMD: Final harvest 2" spec manage for aspen regeneration. Stand is expected to regenerate to aspen with a mix of red maple and oak. Stand is mostly upland with a mix of scattered wet pockets. Apply retention along stand 29 (L type)
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		10	Log	1					
Bigtooth Aspen		75	Log	1	4				
Black Cherry		5	Log	1					
Red Oak		10	Log	1					
103	42110 - Planted Red Pine	Sawtimber Well			16.5	70	141-170	N/A	Thinned in 2011 open crowns yet. Stand is still responding to thinning. Average BA/AC 130. The bigger diameter red pine is 15" DBH. OPIC - FMD: Third row thinned 1986. Thinned again in 2001. Red maple understory in places. Reduce residual BA/AC down to 120 sq. ft. by individual tree marking. Leave all scattered hardwood (red maple and aspen less than 10 BA/AC). If clearcut this stand would convert to a mixed hardwood stand, red maple and aspen. Tim Gallagher 08/18/2014: Thinned 2011 Whiskey River Pine 73-005-10-01
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		96		13	70				
Northern Pin Oak		2	Seedling	6					
Red Maple		2	Sapling	6					
Sub-Canopy Species		Density	Avg. Height		Size				
Red Maple		High	5 - 10 feet		5 - 10 feet				
Northern Pin Oak		Low	5 - 10 feet		5 - 10 feet				
Beech		Low	5 - 10 feet		5 - 10 feet				
104	6112 - Lowland Aspen	Poletimber Well			55.3	31	1-50	N/A	OPIC - FMD: Clearcut in 1994, coming back nice, some wet areas.
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		10	Pole	4	31				
Northern Pin Oak		5	Pole	4	31				
Paper Birch		5	Log	3					
Bigtooth Aspen		10	Seedling	5	31				
Quaking Aspen		70	Seedling	5	31				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
105	6112 - Lowland Aspen	Poletimber Well	17.0	42	81-110	N/A	Scattered low wet pockets. Clear cut in 1983, coming back nice. In transition between well stocked A3 & A6.																																																					
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106	4130 - Aspen	Poletimber Well	31.3	42	111-140	N/A	OPIC - FMD: Clearcut 1983, excellent reproduction. In transition between well stocked A3 & A6.																																																					
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107	42110 - Planted Red Pine	Poletimber Well	1.4	70	201+	N/A	OPIC - FMD: Due to size and location of stand manage with adjacent stand 103.																																																					
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109	42110 - Planted Red Pine	Poletimber Well	29.2	70	141-170	N/A	Alot of hybrid oak mortality in the canopy. No mortality in the sub-canopy.Third row thinned 2004. Red pine BA varies.This stand should be managed with stand 124 due to access.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
110	4131 - Aspen, Oak	Sapling Well	8.8	14	Immature	N/A	Filled in well sense precious inventory. Variable heights and diameters sense filling in for the last 13 years. Stand was clearcut 2011. Stand did not regenerate as planned. Scattered pockets of hardwood regen (small A3 pockets). Grass, bracken fern, raspberry, small A3 clones. OPIC - FMD: Thinned in 1985. Parts of stand were not thinned. Most of stand has a dense hardwood under story, red maple and aspen. This is really a hardwood site. Final harvest 2" spec and convert from red pine to a mixed hardwood site. The under story will take a beating during harvest operations and should be cut as opposed to being smashed and driven over. Apply retention along west end of stand along L type along Dishwash Creek. Harvest up to Arnold Lake Road and Kirby Ave. A mix of aspen, red maple and oak regeneration is expected. Tim Gallagher 08/18/2014: Clear cut 2011 Whiskey River Pine 73-005-10-01. Stand trenched and planted to red pine.			
Canopy Species		% Cover	Size Class	DBH	Age					
White Pine		10	Log	2						
Quaking Aspen		40	Log	2	14					
Black/Red (Hybrid) Oak		20	Log	2	14					
Paper Birch		5	Log	1						
Black Cherry		15	Pole	2						
Bigtooth Aspen		10	Log	2	14					
111	4130 - Aspen	Sapling Well	27.9	21	Immature	N/A	Final harvest 2004. Decent aspen regeneration. Small pockect of red pine in center of stand left un-cut.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		25	Log	3	21					
Quaking Aspen		55	Log	3	21					
Black/Red (Hybrid) Oak		10	Log	4	21					
Bigtooth Aspen		10	Log	4	21					
112	42110 - Planted Red Pine	Poletimber Well	22.6	70	141-170	N/A	Good crowns and good looking pine. Several orange marked trees were left. Third row thinned in 1986. Thinned again in 2001. Thinned 2018. Kirby Pine 73-002-17.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		95		15	70	Black/Red (Hybrid) Oak		High	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak		5		10		Red Maple		High	Variable	Variable
113	622 - Lowland Shrub	None	11.7			No	Creek bottom area.			
						Sub-Canopy Species	Density	Avg. Height	Size	
						Tag Alder	Full	5 - 10 feet	5 - 10 feet	
114	42110 - Planted Red Pine	Poletimber Well	2.9	70	201+	N/A	2025 needs treatment, 220 to 260 baAccess through PVT to north or east. Third row thinned in 2000 Fugitive Red Pine 73-022-00.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Pine		100		11	70	Red Maple	Low	5 - 10 feet	5 - 10 feet	
						Hawthorn (spp.)	Low	5 - 10 feet	5 - 10 feet	
115	42220 - Natural Jack Pine	Sapling Medium	6.4	38	1-50	N/A	Stand was split from planted red pine to the West. It is currently filling in. It is slightly open, still in areas. All day, diameters are growing fairly.Scattered aspen clones. The southern arm is filling in with jack pine and aspen. Stand was trenched summer 2014. The stand was planted in 2015. Regeneration was checked and portions of the stand is not fully stocked so scheduled for replant in 2020.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		3		12		Red Pine	Low	Variable	Variable	
Black Cherry		25	Sapling	7		Jack Pine	Medium	Variable	Variable	
Red Pine		2	Seedling	8	38	Little Bluestem	Medium	Not Applicable	Not Applicable	
Jack Pine		70	Sapling	7	38	Black Cherry	Low	Variable	Variable	
						Black/Red (Hybrid) Oak	Low	Variable	Variable	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
116	4130 - Aspen	Sapling Well	1.9	31	111-140	N/A	Only access is across private. Clearcut in 1994.																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>40</td><td></td><td>7</td><td>31</td></tr><tr><td>Quaking Aspen</td><td>50</td><td></td><td>7</td><td>31</td></tr><tr><td>Red Maple</td><td>10</td><td></td><td>5</td><td>31</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	40		7	31	Quaking Aspen	50		7	31	Red Maple	10		5	31																			
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117	42110 - Planted Red Pine	Sawtimber Well	8.3	70	141-170	N/A	Third row thinned in 1985. Second time thinned 2011 Whiskey River Pine 73-005-10-01. Hold this year of entry stand is still responding to last thinning.																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>95</td><td></td><td>12</td><td>70</td></tr><tr><td>Bigtooth Aspen</td><td>5</td><td></td><td>10</td><td></td></tr></table>				Canopy Species	% Cover	Size Class		DBH	Age	Red Pine	95		12	70	Bigtooth Aspen	5		10		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Ash</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Black Cherry</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>High</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>High</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	White Ash	Medium	Variable	Variable	Black Cherry	Medium	Variable	Variable	Black/Red (Hybrid) Oak	High	Variable	Variable	Red Maple	High	Variable	Variable					
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Red Maple	High	Variable	Variable																																											
118	6229 - Mixed Lowland Shrub	None	3.8			No																																								
				<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	5 - 10 feet	5 - 10 feet																																	
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120	4125 - Black, N. Pin Oak	Sapling Well	4.1	23	Immature	N/A	Clearcut in 2002. Decent oak regeneration as a result of the harvest. Scattered oak and white pine residual.																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black/Red (Hybrid) Oak</td><td>60</td><td>Log</td><td>3</td><td>23</td></tr><tr><td>White Oak</td><td>10</td><td>Log</td><td>3</td><td>23</td></tr><tr><td>Red Maple</td><td>10</td><td>Log</td><td>3</td><td>23</td></tr><tr><td>Black Cherry</td><td>10</td><td>Log</td><td>3</td><td></td></tr><tr><td>White Pine</td><td>10</td><td></td><td>8</td><td>70</td></tr></table>				Canopy Species	% Cover	Size Class		DBH	Age	Black/Red (Hybrid) Oak	60	Log	3	23	White Oak	10	Log	3	23	Red Maple	10	Log	3	23	Black Cherry	10	Log	3		White Pine	10		8	70	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>American Fly Honeysuckle</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	American Fly Honeysuckle	Low	5 - 10 feet	5 - 10 feet		
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121	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	2.5	40	1-50	N/A	Habitat cut in 1985, regeneration is slow.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
122	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	12.3	50	81-110	N/A	To wet for commercial harvest. Old aspen and ash is falling down. Stand has naturally converted from lowland aspen to lowland hardwood. Very wet site.																																											
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>30</td><td></td><td>8</td><td></td></tr><tr><td>Silver Maple</td><td>40</td><td></td><td>8</td><td>50</td></tr><tr><td>American Elm</td><td>30</td><td>Seedling</td><td>6</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	Quaking Aspen	30		8		Silver Maple	40		8	50	American Elm	30	Seedling	6		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Willow spp.</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Silver Maple</td><td>Medium</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>American Fly Honeysuckle</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Black Ash</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Hawthorn (spp.)</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Willow spp.	Medium	5 - 10 feet	5 - 10 feet	Silver Maple	Medium	>20 feet	>20 feet	American Fly Honeysuckle	Low	5 - 10 feet	5 - 10 feet	Black Ash	Medium	Variable	Variable	Hawthorn (spp.)	Low	5 - 10 feet	5 - 10 feet
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123	42110 - Planted Red Pine	Sawtimber Well	1.7	70	171-200	N/A	Manage with stand 91. OPIC - FMD: Every fourth row removed in 1984. Center row removed 5/9/2000. Every other row has now been cut. Decent quality red pine. Small knoll of red pine surrounded by hardwood. No treatment; small stand, adds diversity, treat with surrounding stand.																																											
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124	42110 - Planted Red Pine	Poletimber Well	21.3	70	201+	N/A	Highly variable stand, ba 160 - 240, 8 to 15inch.Trees still responding to last thinning, open crowns, self pruning, DBH growth. Avg. BA/AC 140. Third row thinned 2004.																																											
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125	6113 - Lowland Maple	Sawtimber Well	18.0	80	141-170	N/A	Large canopy silver maple, there are some large holes from the harvest in 2003.Selective cut in 2003 on frozen ground. I would not take BA any lower at this time due to possible wind throw. This is a very wet sensitive site. Some regeneration is starting to get established as a result of the harvest.																																											
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Basswood</td><td>30</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>American Elm</td><td>10</td><td>Sapling</td><td>6</td><td></td></tr><tr><td>Silver Maple</td><td>60</td><td></td><td>25</td><td>80</td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	Basswood	30	Seedling	8		American Elm	10	Sapling	6		Silver Maple	60		25	80	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Hawthorn (spp.)</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Black Ash</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Green Ash</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Silver Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Honeysuckle (spp.)</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Hawthorn (spp.)	Low	5 - 10 feet	5 - 10 feet	Black Ash	Low	5 - 10 feet	5 - 10 feet	Green Ash	Low	5 - 10 feet	5 - 10 feet	Silver Maple	Low	5 - 10 feet	5 - 10 feet	Honeysuckle (spp.)	Trace	5 - 10 feet	5 - 10 feet
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126	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	4.8	60	51-80	N/A	Stand was once part of clearcut to the north. This portion never got cut due to saturated soils. Stand is sparse in areas. Should harvest now. Wet pockets, hummocky ground, wet types to the east and west. Pocket of jack pine/spruce along M-61.																																											
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127	42110 - Planted Red Pine	Sawtimber Well	6.4	78	171-200	N/A	Was not harvested last cycle. Crowns are tight, trees are tall and density is high, ready for an oak flop.All species except red pine removed in 1993. Heavy logging damage to residual red pine. Well established O3 understory 6' to 20' tall. Remove red pine over-story and convert to oak. Apply retention by leaving scattered red pine in all DBH classes. Did not find corner at north-west corner of stand. Red pine are in rows somewhat. Red pine BA/AC 140.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
128	42220 - Natural Jack Pine	Sapling Well	8.2	32	Immature	N/A	Clearcut in 1993. Mix of natural regeneration.																																			
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Red Pine	5	Pole	4	32																																						
129	42110 - Planted Red Pine	Sawtimber Well	14.3	89	111-140	N/A	Thinned in 2002, every 4th row and all jack pine removed. Big diameter red pine here. Lots of open crown space yet. Oak is getting established in understory, oak understory is 4' - 10' tall. Excellent timber. Red pine BA/AC 170 Thinned 2018. Kirby Pine 73-002-17.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>100</td><td></td><td>14</td><td>89</td></tr></table>					Canopy Species	% Cover		Size Class	DBH	Age	Red Pine	100		14	89	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Northern Pin Oak</td><td>High</td><td>Variable</td><td>Variable</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>High</td><td>Variable</td><td>Variable</td></tr><tr><td>White Oak</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Pine</td><td>Trace</td><td>Variable</td><td>Variable</td></tr><tr><td>Jack Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Northern Pin Oak	High	Variable	Variable	Black/Red (Hybrid) Oak	High	Variable	Variable	White Oak	Low	Variable	Variable	Red Pine	Trace	Variable	Variable	Jack Pine	Low	Variable	Variable	
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130	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	10.3	23	1-50	N/A	Good regeneration of oak, aspen, and maple.Clearcut 2002. All white pine and red pine left, less than 10 sq. ft. Very nice oak regeneration has resulted from the harvest.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black/Red (Hybrid) Oak</td><td>40</td><td>Log</td><td>3</td><td>23</td></tr><tr><td>Red Pine</td><td>10</td><td></td><td>10</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>15</td><td>Pole</td><td>4</td><td></td></tr><tr><td>White Pine</td><td>15</td><td></td><td>10</td><td></td></tr><tr><td>Red Maple</td><td>20</td><td>Log</td><td>2</td><td></td></tr></table>					Canopy Species	% Cover		Size Class	DBH	Age	Black/Red (Hybrid) Oak	40	Log	3	23	Red Pine	10		10		Bigtooth Aspen	15	Pole	4		White Pine	15		10		Red Maple	20	Log	2								
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131	4125 - Black, N. Pin Oak	Sapling Well	26.3	22	Immature	N/A	Overstory oak that was left has or will shortly die out. Overstory red pine that was left is in good condition, 14 inch dbh.Clearcut in 2002. Scattered oak and red pine were left. 10BA/AC of red pine was left and 10 BA/AC of oak was left. Decent oak regeneration as a result of the harvest. Do not recommend harvesting the over-story that was left.																																			
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132	42110 - Planted Red Pine	Poletimber Well	60.4	78	171-200	N/A	Big pine that's mostly clean, understory is stunted from the dense canopy.Thinned in 2002, all jack pine and marked red pine removed scattered mature mixed oak was left. Parts of stand are ready to have overstory removed and parts are not. Overall red pine overstory is needed 10 more years to nurse O3 along. Red pine BA, size and O3 understory varies within this stand.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>95</td><td></td><td>15</td><td>78</td></tr><tr><td>Northern Pin Oak</td><td>5</td><td></td><td>18</td><td></td></tr></table>					Canopy Species	% Cover		Size Class	DBH	Age	Red Pine	95		15	78	Northern Pin Oak	5		18		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Northern Pin Oak</td><td>High</td><td>Variable</td><td>Variable</td></tr><tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Jack Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Northern Pin Oak	High	Variable	Variable	White Pine	Medium	Variable	Variable	Red Pine	Medium	Variable	Variable	Jack Pine	Low	Variable	Variable
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133	4310 - Pine, Oak Mix	Sapling Well	22.4	32	Immature	N/A	Oak is falling out in spots. Appears to be oak fire back rather than wilt. Still the primary speciesClearcut in 1993, converting to oak.																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
134	4122 - Oak, Pine	Sapling Well	40.2	5	Immature	N/A	Overstory removal under contract County Line Mix 73-016-17. Left oak regeneration. Cut in 2019-2020Jack pine removed in 1993. Red pine thinned down to 90 sq. ft. in 2001. Decent oak regeneration as a result of the two thinnings. Stand will convert to oak when overstory red pine is removed. Oak understory is 20' tall.			
Canopy Species		% Cover	Size Class	DBH	Age					
Black Cherry		5	Log	1						
Black/Red (Hybrid) Oak		60	Log	1	5					
Jack Pine		20	Log	1						
Red Pine		15	Log	1						
135	42110 - Planted Red Pine	Poletimber Well	31.2	78	141-170	N/A	Thinned in 2002. All jack pine and marked red pine removed. Smaller DBH and shorter red pine here than in surrounding stands. A understory of jack pine and oak is just starting to get established as a result of the 2002 harvest.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern Pin Oak		10		9		Jack Pine		Medium	Variable	Variable
Red Pine		90		12	78	Northern Pin Oak		High	Variable	Variable
						Red Pine		Low	Variable	Variable
136	42250 - Pine, Oak	Sapling Well	5.1	22	Immature	N/A	Clearcut in 2002. J3/O3 natural regeneration.			
Canopy Species		% Cover	Size Class	DBH	Age					
Northern Pin Oak		35	Log	3	22					
Jack Pine		60	Log	4	22					
Red Pine		5	Log	2	22					
137	42110 - Planted Red Pine	Sapling Well	47.7	1	Immature	N/A	Year 1 artificial regen survey conducted fall of 2024. 867 TPA of red pine, 99% FTG & 2% mortality. Stand planted April 2024. 857 TPA of red pine initial plant. Stand trenched in Spring 2022. Site prep sprayed 07/07/2023 by WWS contract crew. Stand cut under contract County Line Mix 73-016-17. Half of stand cut in 2020, other half cut in 2021. Forest fire here in July 1966. Could be restarted this YOY. Planted jack pine with trace of red pine.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Pine		100	Log	1	1					
138	6112 - Lowland Aspen	Sawtimber Well	3.7	87	81-110	N/A	Split off, flood plane of Whiskey Creek. Variable low density stand.Narrow stand pinched between private and the creek. Portions of stand are on short steep bank along river. Also some ravines leading to creek. 130 BA/AC.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		40		15	87	Hawthorn (spp.)		Low	5 - 10 feet	5 - 10 feet
Balsam Fir		20	Sapling	6		Musclewood/Hornbeam		Low	Variable	Variable
White Pine		9	Seedling	8		Amur Honeysuckle		Low	5 - 10 feet	5 - 10 feet
Red Maple		25		14	87	Black Cherry		Low	Variable	Variable
Bur Oak		6		18	87	Bitternut Hickory		Trace	5 - 10 feet	5 - 10 feet
						Green Ash		Medium	Variable	Variable
						Red Maple		Medium	Variable	Variable
						Balsam Fir		Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
139	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	5.1	38	51-80	N/A	Stand split from planted red pine to the north. Lowland mixed with upland, growing well.Scattered aspen clones. The southern arm is filling in with jack pine and aspen. Stand was trenched summer 2014. The stand was planted in 2015. Regeneration was checked and portions of the stand is not fully stocked so scheduled for replant in 2020.																																														
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140	6112 - Lowland Aspen	Sapling Medium	2.5	4	Immature	N/A																																															
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141	500 - Water	None	1.2			No	Water table varies with Beaver activity.																																														
142	4132 - Aspen, Jack Pine	Sapling Poor	3.9	60	1-50	N/A	Scattered pine and aspen pockets next to plated red pine.Scattered aspen clones. The southern arm is filling in with jack pine and aspen. Stand was trenched summer 2014. The stand was planted in 2015. Regeneration was checked and portions of the stand is not fully stocked so scheduled for replant in 2020.																																														
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143	6112 - Lowland Aspen	Poletimber Well	16.0	83	111-140	N/A																																															
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144	6112 - Lowland Aspen	Poletimber Well	14.2	38	81-110	N/A	Habitat cut 1987. Low and wet.																																														
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145	42250 - Pine, Oak	Poletimber Medium	5.9	50	51-80	N/A	Mature jack pine is being hit by the bud worm.Old twp. dump. Still being used by local residents.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
146	6112 - Lowland Aspen	Poletimber Poor	4.6	42	81-110	N/A	Lowland portion.																																														
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148	6112 - Lowland Aspen	Poletimber Poor	4.5	40	1-50	N/A	Poorly stocked stand due to wet soils, ash is regenerating well post EAB.Clearcut in 1984. Low wet stand regeneration is slow.																																														
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149	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	53.2	40	51-80	N/A	Out of the 4 stands this one has the best regeneration and growth.Clearcut in 1984. Low wet stand regeneration is slow.																																														
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150	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	23.3	94	1-50	N/A	Very wet site with mucky soils. Swamp grass all over the place. EAB present.																																														
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151	4125 - Black, N. Pin Oak	Sapling Well	9.5	23	Immature	N/A	Clearcut in 2002. Decent O3 regeneration as a result of the harvest. Several oak seed trees were left no measurable volume.																																														
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152	500 - Water	None	24.5			No	Water table varies with Beaver activity.																																														

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
153	4130 - Aspen	Sapling Well	15.6	5	Immature	N/A	Stand cut under contract County Line Mix 73-016-17 in Spring 2020. Southern portion of stand was never cut due to saturated soils.																																																						
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154	6113 - Lowland Maple	Sawtimber Well	39.6	131	81-110	N/A	Shelterwood prep in 1993, selective cut in 2003 on frozen ground. BA was reduced to 80 sq. ft. Reducing BA any lower now could result in wind throw. Ash Salvage harvest is current. M-61 Ash Split. 73-014-13-01. EAB present. Mucky soils. Ash salvage was unsuccessful due to soil conditions and deteriorating ash.																																																						
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Paper Birch	5		10		Green Ash	Medium	Variable	Variable																																																					
155	310 - Herbaceous Openland	None	10.8			No	Mixed grasses openland dotted with aspen pockets.																																																						
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156	4130 - Aspen	Poletimber Medium	9.2	57	1-50	N/A	Brushy aspen, alot of small whips up to older stems.																																																						
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157	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	10.7	99	81-110	N/A	Parts of this stand were habitat cut in 1969. Very wet soils. Semi open stand open/grassy patches within stand. Management options are limited. Poor quality timber. Stand is lowland but not as low as neighboring stand to the west.																																																						
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158	6112 - Lowland Aspen	Poletimber Well	10.4	56	81-110	N/A	Lowland stand sandwiched between the Dishwash creek and the Whisky Creek. Beaver are active in both creeks.Hold 10 yrs. as aspen is a little small yet. Try to manage with stands 160 and 163 as access road north to Stocking is very wet. Clearcut in 1969. In transition between well stocked A3 and A6.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
159	4130 - Aspen	Poletimber Poor	12.4	41		N/A	A poor regenerated site, with many invasive honeysuckle. Clearcut 1984 very little woody regeneration.																																									
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160	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	13.5	70	141-170	N/A	Strong understory of oak. The crowns could hold another 10 years. Access two track from Stockwell Road is seasonally very wet. Tim Gallagher 08/18/2014: First time row thinning 2014, Whiskey River Pine 73-005-10-01. Retention, all scattered mixed hardwood within stand was left. 66BA/AC red pine was removed.																																									
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161	6127 - Lowland Pine	Poletimber Well	10.8	70	171-200	N/A	Clearcut in 1969. Possible habitat cut. Pockets of planted red pine within stand. Access is a concern with this stand. Ravines leading down to creek, wet areas, open grown areas, non stocked patches, aspen blow down along creek, areas of marsh grass. Red pine has not been thinned.																																									
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Red Pine	75	Seedling	9	70																																												
Sub-Canopy Species	Density	Avg. Height	Size																																													
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Black/Red (Hybrid) Oak	High	Variable	Variable																																													
Red Maple	Low	Variable	Variable																																													
162	4130 - Aspen	Poletimber Medium	39.0	56	1-50	N/A	Clearcut in 1969. Overall this stand is not ready for regeneration harvest. Timber is a little bigger at north end. Poor quality aspen.																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>60</td><td>Sapling</td><td>6</td><td>56</td></tr><tr><td>Bigtooth Aspen</td><td>5</td><td>Sapling</td><td>6</td><td>56</td></tr><tr><td>Red Maple</td><td>25</td><td>Sapling</td><td>6</td><td>56</td></tr><tr><td>Jack Pine</td><td>5</td><td>Pole</td><td>4</td><td></td></tr><tr><td>Northern Pin Oak</td><td>5</td><td>Sapling</td><td>6</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	60	Sapling	6	56	Bigtooth Aspen	5	Sapling	6	56	Red Maple	25	Sapling	6	56	Jack Pine	5	Pole	4		Northern Pin Oak	5	Sapling	6		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Aspen (spp.)</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Aspen (spp.)	Medium	Variable	Variable	Red Maple	Medium	Variable	Variable			
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Aspen (spp.)	Medium	Variable	Variable																																													
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163	6112 - Lowland Aspen	Poletimber Medium	4.0	56	51-80	N/A	Lowland stand bordering the Whiskey creek. Beaver are active in the area. Hold 10 yrs. as aspen is a little small yet. Try to manage with stands 160 and 158 as access road north to Stocking is very wet. Clearcut in 1969. In transition between well stocked A3 and A6. Beaver activity down along river.																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>15</td><td>Seedling</td><td>7</td><td>56</td></tr><tr><td>Quaking Aspen</td><td>60</td><td>Seedling</td><td>7</td><td>56</td></tr><tr><td>Red Maple</td><td>20</td><td>Seedling</td><td>5</td><td>56</td></tr><tr><td>White Pine</td><td>5</td><td>Seedling</td><td>6</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	15	Seedling	7	56	Quaking Aspen	60	Seedling	7	56	Red Maple	20	Seedling	5	56	White Pine	5	Seedling	6		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Hawthorn (spp.)</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Variable	Hawthorn (spp.)	Medium	5 - 10 feet	5 - 10 feet								
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164	42110 - Planted Red Pine	Poletimber Well	59.6	70	111-140	N/A	Tim Gallagher 08/18/2014: First time row thinned 2013 Whiskey River Pine 73-005-10-01. Retention, all scattered mixed hardwood within stand was left. 66BA/AC red pine was removed. Hold 10 years and thin again.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
165	42110 - Planted Red Pine	Sapling Well	36.6	8	Immature	N/A	Year 3 regeneration check: 640 TPA, 20.5% mortality, 95% FTG. Stand passes regeneration check as a fully stocked red pine plantation.																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Northern Pin Oak</td><td>5</td><td>Log</td><td>1</td><td></td></tr><tr><td>Red Pine</td><td>95</td><td>Log</td><td>1</td><td>8</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Northern Pin Oak	5	Log	1		Red Pine	95	Log	1	8																							
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Stand surveyed in FY 2021 by contractors. Data shows 716 TPA of red pine and 99% FTG. No next steps needed on this stand.																																													
Trenched and planted to red pine. Trenched 2016 and planted 5/8/2017. Stand release sprayed Summer 2020. Stand replanted Spring 2021																																													
166	42120 - Planted Jack Pine	Sapling Well	32.1	25	Immature	N/A	Planted to jack pine in 2002. Some areas planted to red pine in 1992. This site was a black top manufacturing site when M-61 was originally built.																																						
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167	42110 - Planted Red Pine	Sapling Medium	23.6	38	81-110	N/A																																							
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168	4131 - Aspen, Oak	Sapling Well	24.9	11	Immature	N/A	Filled in well, all red pine is on a ridge that tapers to the eastClear cut 2014. Regenerating to a mix of aspen, oak and red maple. All red pine 10" DBH and up was left. Most of the red pine is located in a pocket at the south end of stand. Records of forest fire in the past. Apply retention along west end of stand and leaving scattered red pine. Tim Gallagher 08/18/2014: Clear cut 2014 Whiskey River Pine 73-005-10-01. Natural regeneration survey was done June 2018. The aspen regeneration is heavy on the ridge that goes through the stand. The stand is fully stocked going from the ridge to the rail road tracks. This area is heavy to bigtooth aspen. The area north of the ridge is more open and is heavier to quaking aspen. Much of the oak regeneration is less than 4' tall. The stand also has a trace of red maple and jack pine.																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>5</td><td></td><td>14</td><td></td></tr><tr><td>Choke Cherry</td><td>5</td><td>Log</td><td>1</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>20</td><td>Log</td><td>1</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>40</td><td>Log</td><td>1</td><td>11</td></tr><tr><td>Quaking Aspen</td><td>30</td><td>Log</td><td>1</td><td>11</td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	5		14		Choke Cherry	5	Log	1		Black/Red (Hybrid) Oak	20	Log	1		Bigtooth Aspen	40	Log	1	11	Quaking Aspen	30	Log	1	11	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Medium	Variable	Variable
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169	42110 - Planted Red Pine	Sapling Well	21.4	10	Immature	N/A	Fully stocked red pine stand with some but not a ton of jack pine competition.Scattered aspen clones. The southern arm is filling in with jack pine and aspen. Stand was trenched summer 2014. The stand was planted in 2015. Regeneration was checked and portions of the stand is not fully stocked so scheduled for replant in 2020.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
170	6112 - Lowland Aspen	Poletimber Medium	26.1	40	81-110	N/A	Forested drain running through the stand, heavy to wetland species in the west of the stand slowly increasing in elevation. Clearcut in 1985. Scattered low wet areas.																																																				
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>71</td><td>Seedling</td><td>7</td><td>40</td></tr><tr><td>Red Maple</td><td>5</td><td>Sapling</td><td>5</td><td>40</td></tr><tr><td>Red Pine</td><td>2</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>5</td><td>Seedling</td><td>6</td><td>40</td></tr><tr><td>Jack Pine</td><td>2</td><td>Seedling</td><td>5</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>15</td><td>Seedling</td><td>8</td><td>40</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	71	Seedling	7	40	Red Maple	5	Sapling	5	40	Red Pine	2	Seedling	7		Black/Red (Hybrid) Oak	5	Seedling	6	40	Jack Pine	2	Seedling	5		Bigtooth Aspen	15	Seedling	8	40	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Hawthorn (spp.)</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Musclewood/Hornbeam</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Black Ash</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Green Ash</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Hawthorn (spp.)	Low	5 - 10 feet	5 - 10 feet	Musclewood/Hornbeam	Low	Variable	Variable	Black Ash	Low	Variable	Variable	Green Ash	Low	Variable	Variable
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171	4130 - Aspen	Sapling Well	22.6	12	Immature	N/A	Apply retention along north end of stand along creek and camp site. Protect campsite from any logging activity. Tim Gallagher 08/18/2014: Clear cut 2013 Whiskey River Pine 73-005-10-01.																																																				
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172	42110 - Planted Red Pine	Sawtimber Medium	22.4	78	51-80	N/A	All jack pine, aspen and marked red pine harvested in 2014. 60 to 70 BA/AC red pine residual. Converting to an oak stand. The residual red pine will act as a nurse crop for oak regeneration. Apply retention at north end of stand along creek. Tim Gallagher 08/18/2014: Thinned 2014 Whiskey River Pine 73-005-10-01																																																				
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Jack Pine	Medium	Variable	Variable																																																								
173	3303 - Mixed Low Density Trees	None	1.6			No																																																					
174	42110 - Planted Red Pine	Sawtimber Well	5.1	77	141-170	N/A	Oak and jack pine has fallen out of the stand. With good white pine regeneration. Narrow stand pinched between private and the creek. Portions of stand are on short steep bank along river. Also some ravines leading to creek. 130 BA/AC.																																																				
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175	42110 - Planted Red Pine	Sapling Well	17.4	10	Immature	N/A	Free to grow seedlingsFinal harvest 2" spec. 2013. Huckleberry Trail Harvest 73-029-10-01. Apply retention along natural buffer (drop off) at south end of stand along creek. Red pine planted 4/28/2015. FTP C73-891. Stand aerial release spray 09/2020																																																				
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Jack Pine	1	Log	1																																																								
176	42110 - Planted Red Pine	Sapling Well	18.2	9	Immature	N/A	Scattered white pine left post harvest, red pine is free to grow.Trenched and planted to red pine. Trenched 2016 and planted 5/8/2017.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
177	500 - Water	None	3.7			No	Old barrow pit from when M-61 was built.				
178	4131 - Aspen, Oak	Sapling Well	13.7	14		N/A	Stand was clearcut 2011. Stand did not regenerate as planned. Scattered pockets of hardwood regen (small A3 pockets). Grass, bracken fern, raspberry, small A3 clones. Thinned in 1985. Parts of stand were not thinned. Most of stand has a dense hardwood under story, red maple and aspen. This is really a hardwood site. Final harvest 2" spec and convert from red pine to a mixed hardwood site. The under story will take a beating during harvest operations and should be cut as opposed to being smashed and driven over. Apply retention along west end of stand along L type along Dishwash Creek. Harvest up to Arnold Lake Road and Kirby Ave. A mix of aspen, red maple and oak regeneration is expected. Tim Gallagher 08/18/2014: Clear cut 2011 Whiskey River Pine 73-005-10-01. Stand trenched and planted to red pine.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		15	Log	1		Tag Alder		Low	5 - 10 feet	5 - 10 feet	
Black Cherry		5	Log	1							
Red Pine		5	Log	1							
Bigtooth Aspen		20	Log	1	14						
Quaking Aspen		50	Log	1	14						
White Oak		5	Log	1							
179	42220 - Natural Jack Pine	Sapling Well	193.3	23	Immature	N/A	All oak and jack pine removed in 1992. Overstory red pine removed in 2002. This two stage shelterwood system has resulted in a excellent mix of natural regeneration.				
Canopy Species		% Cover	Size Class	DBH	Age						
Jack Pine		60	Log	4	23						
Red Pine		20	Sapling	5	23						
Northern Pin Oak		20	Pole	4	23						
180	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	32.7	10	Immature	N/A	Final harvest 2" spec. 2013. Huckleberry Trail Harvest 73-029-10-01. All scattered red pine and white pine were left. Interplant red pine to maintain full stocking. Apply retention along east end of stand along drop off down to the floodplain. Red pine planted 4/28/2015. FTP C73-891. Aerial release spray 9/2020				
Canopy Species		% Cover	Size Class	DBH	Age						
Jack Pine		40	Log	2	10						
Black/Red (Hybrid) Oak		20	Log	2							
181	6113 - Lowland Maple	Poletimber Well	66.7	99	81-110	N/A	Stand is in the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		70	Seedling	8	99	Red Maple		Medium	Variable	Variable	
Black/Red (Hybrid) Oak		20		8		Deciduous Shrubs		Medium	5 - 10 feet	5 - 10 feet	
White Pine		10		8		White Ash		Low	Variable	Variable	
182	4125 - Black, N. Pin Oak	Poletimber Well	16.8	23	Immature	N/A	All but red pine removed in 2002. Red pine is concentrated in two pockets. Within the pockets the red pine BA is 30 sq. ft. and out side the pockets there is no red pine.				
Canopy Species		% Cover	Size Class	DBH	Age						
Jack Pine		5	Sapling	5							
Northern Pin Oak		70	Sapling	5	23						
White Oak		15	Seedling	5	23						
Red Pine		10		10							

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																															
183	42110 - Planted Red Pine	Sawtimber Well	43.9	70	141-170	N/A	Well be able to hold another cycle crowns at in good shape.Outstanding red pine. Avg. BA/AC 195. North 1/2 has no understory, south 1/2 and around edges is developing a hardwood understory. Good access and workable/strait rows. Every fourth row removed in 1984. Center row removed 5/9/2000. Every other row has now been cut. Decent quality red pine. South 1/2 of stand is developing a M2/M1-O1 understory. Thinned in 2018. Kirby Pine 73-002-17.																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>100</td><td></td><td>12</td><td>70</td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	Red Pine	100		12	70	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Beech</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Northern Pin Oak</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	5 - 10 feet	5 - 10 feet	Beech	Low	5 - 10 feet	5 - 10 feet	Northern Pin Oak	Low	5 - 10 feet	5 - 10 feet						
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184	4125 - Black, N. Pin Oak	Sapling Medium	1.0	10	Immature	N/A	Open pocket within the red pine, no forest health concerns at this time.																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>5</td><td>Log</td><td>1</td><td></td></tr><tr><td>Quaking Aspen</td><td>10</td><td>Log</td><td>1</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>80</td><td>Log</td><td>1</td><td>10</td></tr><tr><td>Red Pine</td><td>5</td><td>Log</td><td>1</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	Jack Pine	5	Log	1		Quaking Aspen	10	Log	1		Black/Red (Hybrid) Oak	80	Log	1	10	Red Pine	5	Log	1											
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Red Pine	5	Log	1																																			
185	6113 - Lowland Maple	Poletimber Well	34.4	105	1-50	N/A	Stand is in the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.																															
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186	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	8.0	108	51-80	N/A	Stand is in the Muskegon River floodplain. Mucky soils, seasonally stand has standing water. Access problems.																															
187	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	52.0	11	Immature	N/A	Stand surveyed in FY 2021 by contractors. Data shows 79.8% FTG. Forester and TMS have agreed to accept current stand conditions. No next step treatments needed.																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>75</td><td>Log</td><td>1</td><td>11</td></tr><tr><td>Northern Pin Oak</td><td>25</td><td>Log</td><td>1</td><td>11</td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	Red Pine	75	Log	1	11	Northern Pin Oak	25	Log	1	11																				
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188	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	14.0	99	81-110	N/A	Stand is in the Muskegon River floodplain. Mature true E type. Mucky soils, seasonally stand has standing water.																															

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
189	4311 - Pine, Aspen Mix	Poletimber Poor	17.6	40	51-80	N/A	Scattered aspen, white pine, oak and jack pine.																																																					
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190	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	48.7	108	81-110	N/A	Muskegon River/ Huckleberry Trail ERAFloodplain forest, comprised of silver maple, green ash, bur oak, basswood, red oak, american beech, sugar maple, and occasional white pine hemlock.																																																					
191	6113 - Lowland Maple	Sawtimber Medium	16.8	108	111-140	N/A	Stand is in the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.																																																					
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192	500 - Water	None	10.9			No	Oxbow.																																																					
193	42110 - Planted Red Pine	Sawtimber Medium	159.8	76	1-50	N/A	40 to 60 BA understory is established but still small. North half was thinned spring 2019 and south half thinned 2018. Kirby Pine 73-002-17																																																					
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White Oak	Low	Variable	Variable																																																									
194	622 - Lowland Shrub	None	34.8			No																																																						
195	42110 - Planted Red Pine	Sawtimber Medium	7.1	70	171-200	N/A	This stand was left out of the Temple Pine 73-024-01 sale. This stand was harvested during the Old M-61 Sale 73-032-90 in which all species excluding red pine where harvested.																																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>100</td><td></td><td>13</td><td>70</td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	Red Pine	100		13	70	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Black/Red (Hybrid) Oak</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Jack Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Black/Red (Hybrid) Oak	Medium	Variable	Variable	Red Pine	Low	Variable	Variable	Jack Pine	Medium	Variable	Variable																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
196	4130 - Aspen	Sapling Well	27.4	15	Immature	N/A	Aspen coming in strong, some areas converted to tag alder and aspen got moved to the lowland stand to the south.Final harvest 2" spec manage for aspen regeneration. Stand is expected to regenerate to aspen. Scattered low wet areas within stand. Adjacent stand 194(L type) meanders all around this stand. Apply retention around stand 194. MDNR recently acquired the 40 that makes up the west 1/2 of this stand. Variable stand in terms of species composition. Currently under timber sale contract 73-029-10-01 Huckleberry Trail Harvest. 10/2015 Gallagher; clear-cut with reserves 01/2015.		
Canopy Species	% Cover	Size Class	DBH	Age					
Jack Pine	15	Log	2						
Quaking Aspen	60	Log	2	15					
Black Cherry	20	Log	1						
Black/Red (Hybrid) Oak	5	Log	1						
197	42220 - Natural Jack Pine	Poletimber Medium	9.2	57	51-80	N/A	Records of fire in late 1960's. Over all jack pine is short.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Jack Pine	80	Sapling	7	57	Red Pine	Low		Variable	Variable
Northern Pin Oak	20	Sapling	6		Northern Pin Oak	Low		Variable	Variable
					Jack Pine	Medium		Variable	Variable
198	6113 - Lowland Maple	Sawtimber Well	43.3	99	141-170	N/A	Stand is in the Muskegon River floodplain. Mature true E type. Mucky soils, seasonally stand has standing water.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Basswood	20		14		Silver Maple	Medium		Variable	Variable
Swamp White Oak	20		27	99	Musclewood/Hornbeam	Low		Variable	Variable
Silver Maple	60		18	99	Black Ash	Low		Variable	Variable
199	42110 - Planted Red Pine	Poletimber Well	57.7	77	81-110	N/A	2025: Filled in well, could be used as a nurse wood. Then possibly remove the overstory next cycle.2015: All jack pine and marked red pine removed in 2002. Hold. Not much happening in understory and crowns are open. Red pine density varies. 80 BA/AC		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	100		13	77	Black/Red (Hybrid) Oak	Medium		Variable	Variable
					Jack Pine	High		Variable	Variable
200	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	10.3	70	141-170	N/A	Mostly uplands site with access problems.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	30		10	70	Ironwood	Medium		Variable	Variable
Paper Birch	10	Seedling	8		Balsam Fir	Medium		Variable	Variable
Balsam Fir	25	Seedling	8		White Ash	Medium		Variable	Variable
Northern White Cedar	10		12	90					
Sugar Maple	15		10						
Red Oak	10		20						
201	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	96.3	10	Immature	N/A	Year 3 regeneration check: 718 TPA, 23.6% mortality, 53% FTG. Recommend to accept current status. Stand has been replanted and release sprayed in the past. Stand surveyed in FY 2021 by contractors. Data shows 743 TPA of red pine and 85% FTG. Final harvest 2" spec. 2013. Huckleberry Trail Harvest 73-029-10-01. This stand was split from the timber north of Stocwell Road. Apply retention by leaving uncut islands. Red pine planted 4/28/2015. FTP C73-891. Aerial release spray 9/2020. Stand replanted in Spring 2021.		
Canopy Species	% Cover	Size Class	DBH	Age					
Northern Pin Oak	10	Log	2						
Jack Pine	5	Log	1						
Red Pine	70	Log	2	10					
Black Cherry	15	Log	2						

Stand	Level 4 Cover Type			Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
202	6113 - Lowland Maple		Sawtimber Medium	125.5	127	51-80		N/A	Strong ash regeneration after harvest. Maple, elm, and basswood growing well. Ash harvest along the western portion of stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Silver Maple		68		18	127	American Elm		Low	5 - 10 feet	5 - 10 feet
Basswood		20		12		Black Ash		High	Variable	Variable
Northern White Cedar		2	Seedling	8		Red Maple		Low	Variable	Variable
American Elm		10	Seedling	7		Green Ash		Full	5 - 10 feet	5 - 10 feet
203	42290 - Natural Mixed Pine		Sawtimber Medium	13.0	60	111-140		N/A	Natural pine stand with an oak and maple component. Various ba of 80 to 180. All but red pine removed in 2002. Red pine is concentrated in two pockets. Within the pockets the red pine BA is 30 sq. ft. and out side the pockets there is no red pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern Pin Oak		18		15		Red Maple		Low	Variable	Variable
White Oak		5		10		Black/Red (Hybrid) Oak		Medium	Variable	Variable
Jack Pine		5	Sapling	5		White Pine		Medium	Variable	Variable
Red Pine		25		10		Red Pine		Low	Variable	Variable
White Pine		47		12	60					