



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, redbreasted 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: 5/27/2025
 Map Phase: Pre-Review

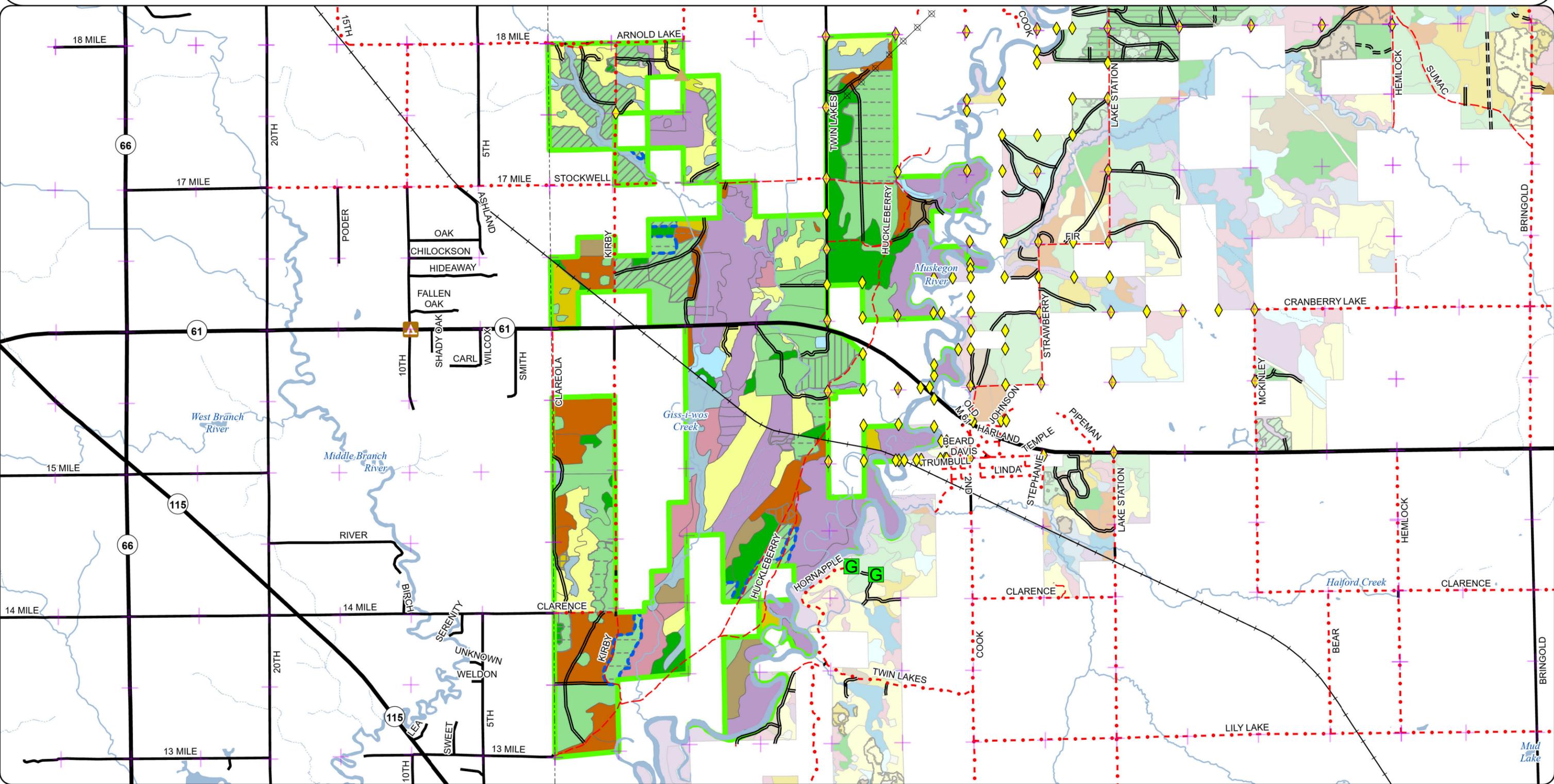
- ✚ Remonumented Section Corners
- ◆ Survey Grade Corners
- ▲ Berms
- Ⓜ Gate
- Ⓜ Campground
- DNR - Secondary Forest Road
- == DNR - Forest Access Route

- 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

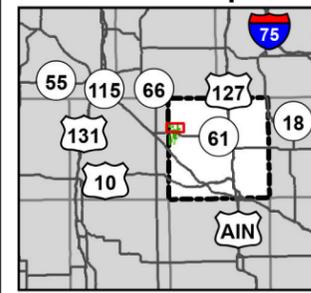
- Lakes and Rivers
- - - Counties
- ⚡ Powerline
- Compartment Boundary
- Clearcut
- ▨ Seed Tree
- ▨ Shelterwood
- ▨ Thinning

- Overstory Removal
- ▨ Treatments with Site Conditions

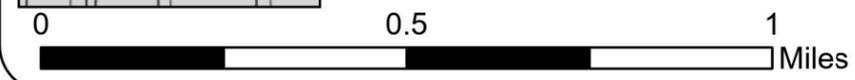
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub



Cover Type & Treatments Map



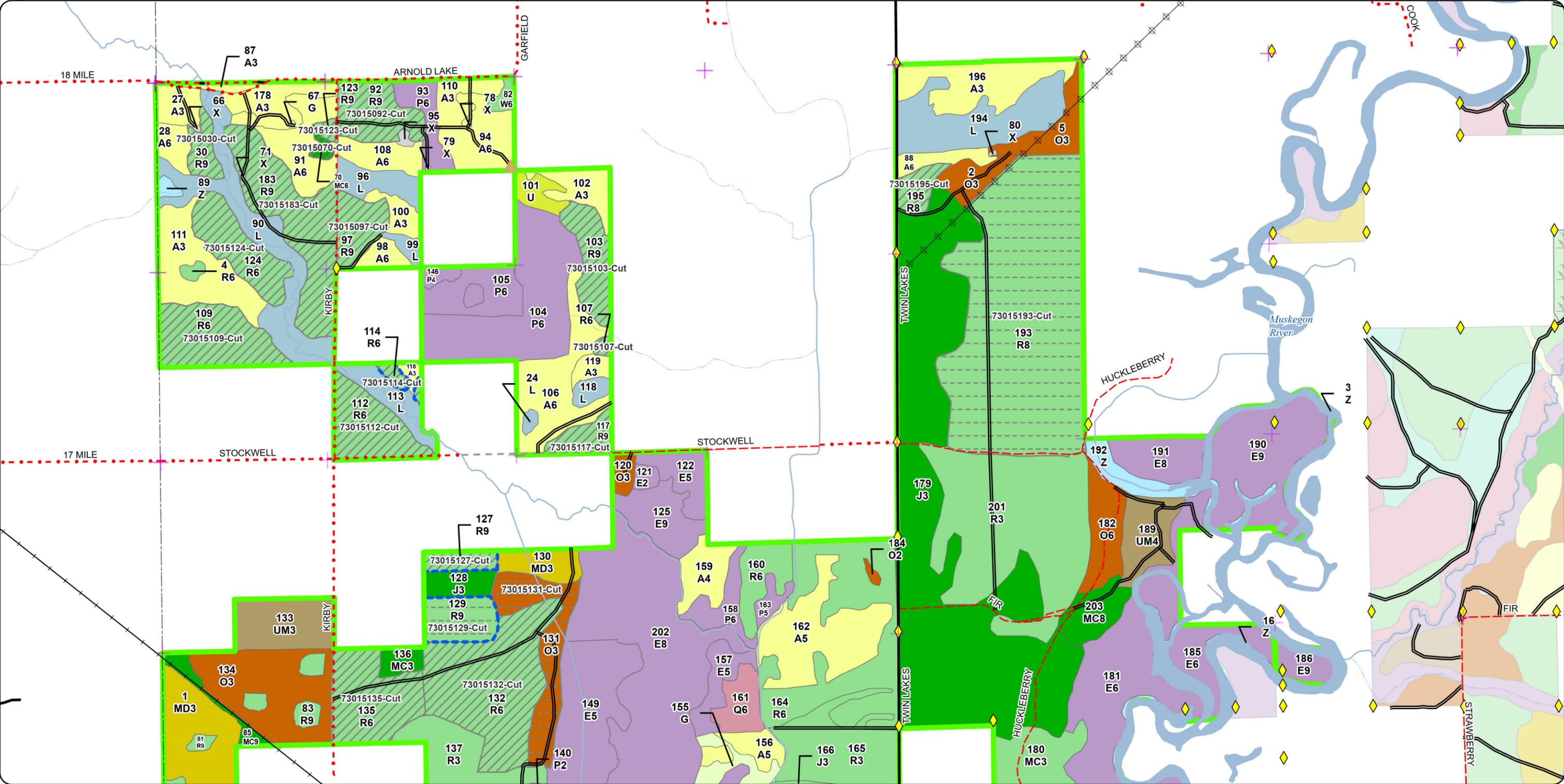
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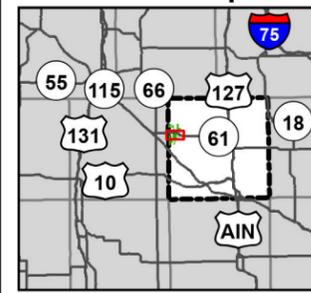
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- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines

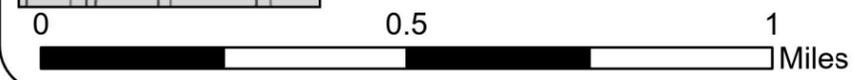
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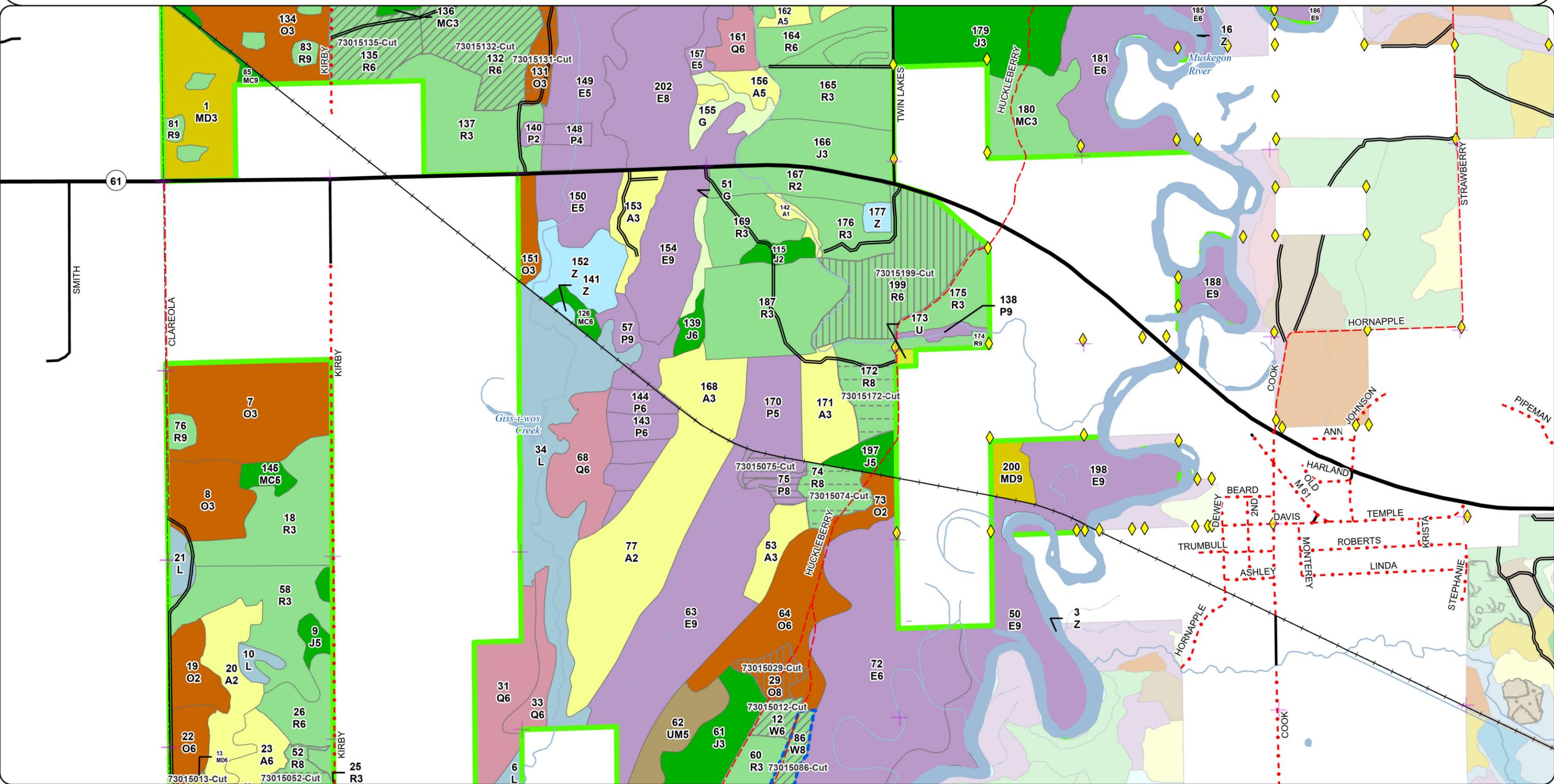


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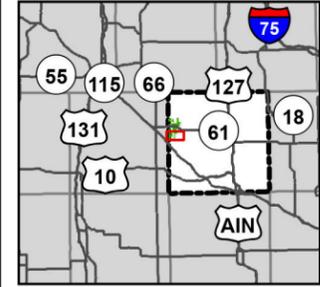


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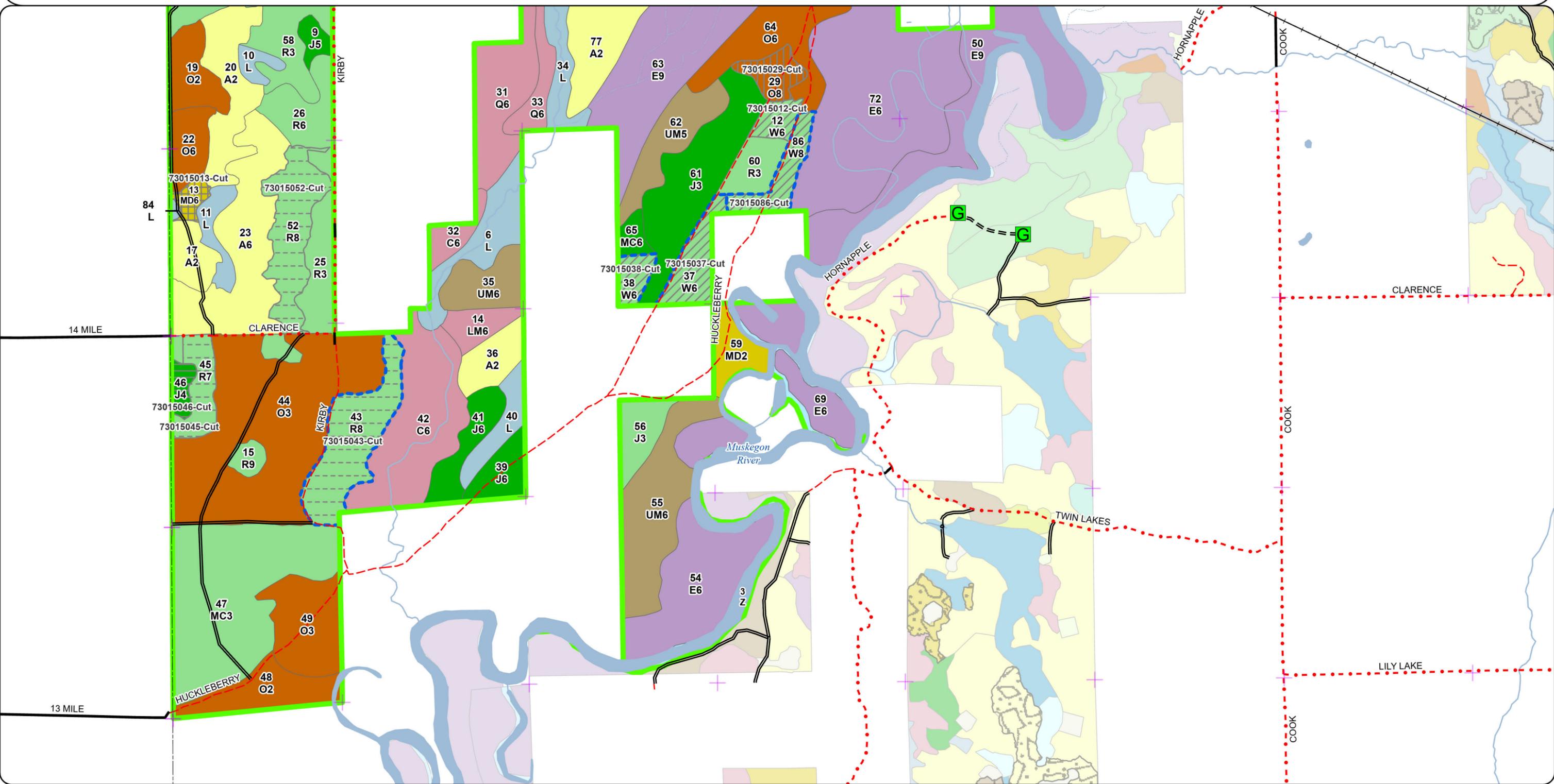
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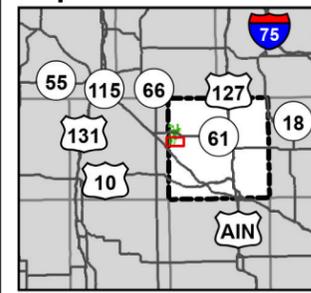
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Stand Boundary Map

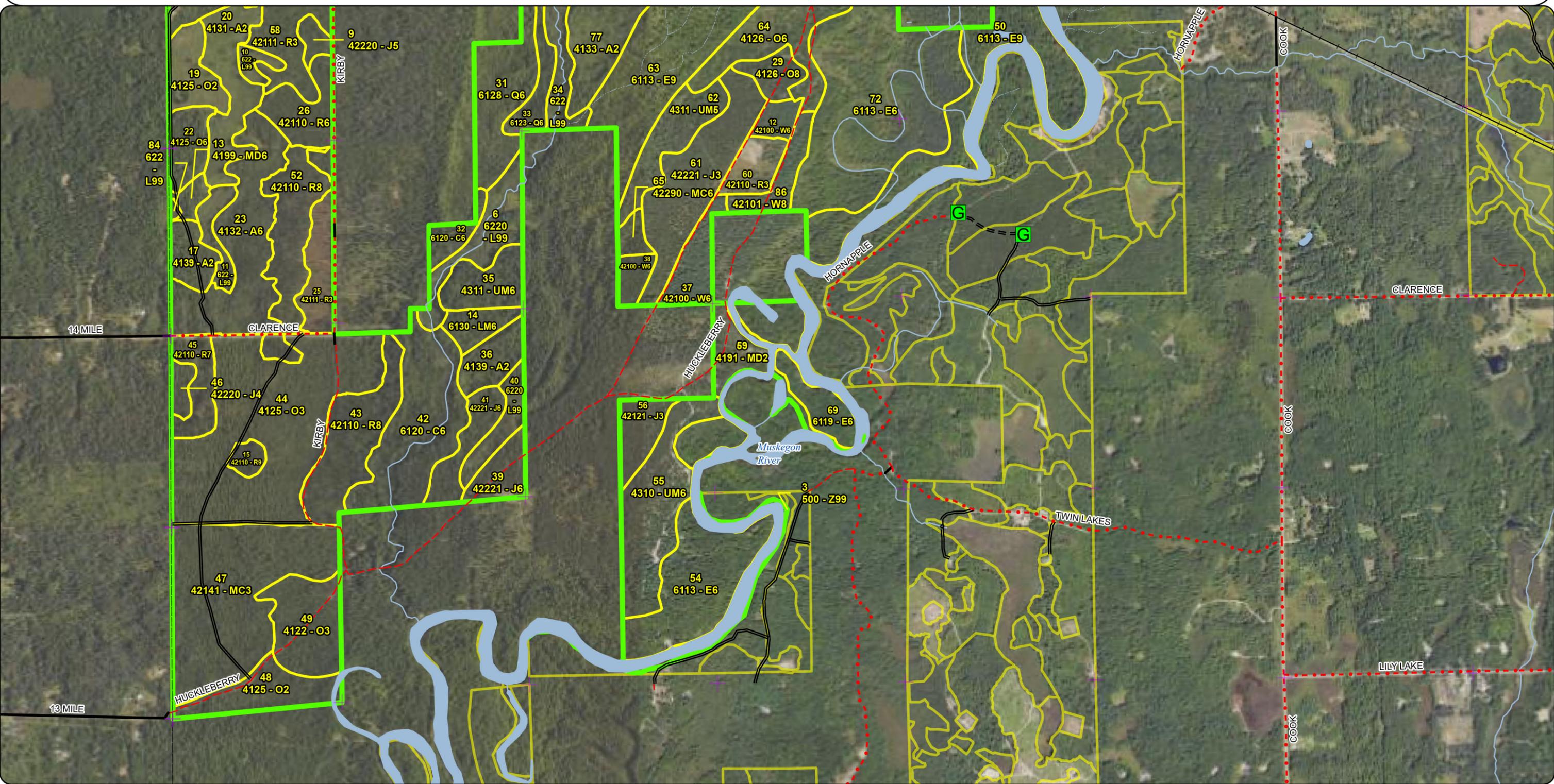
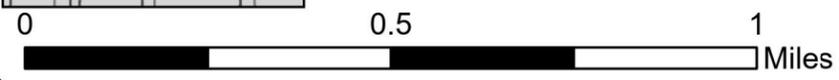


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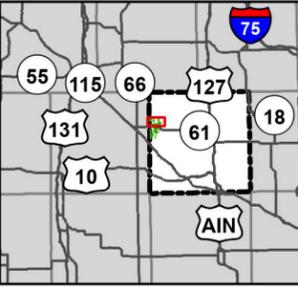
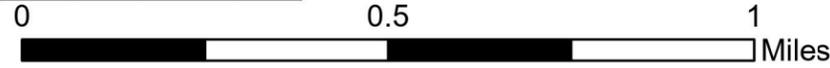
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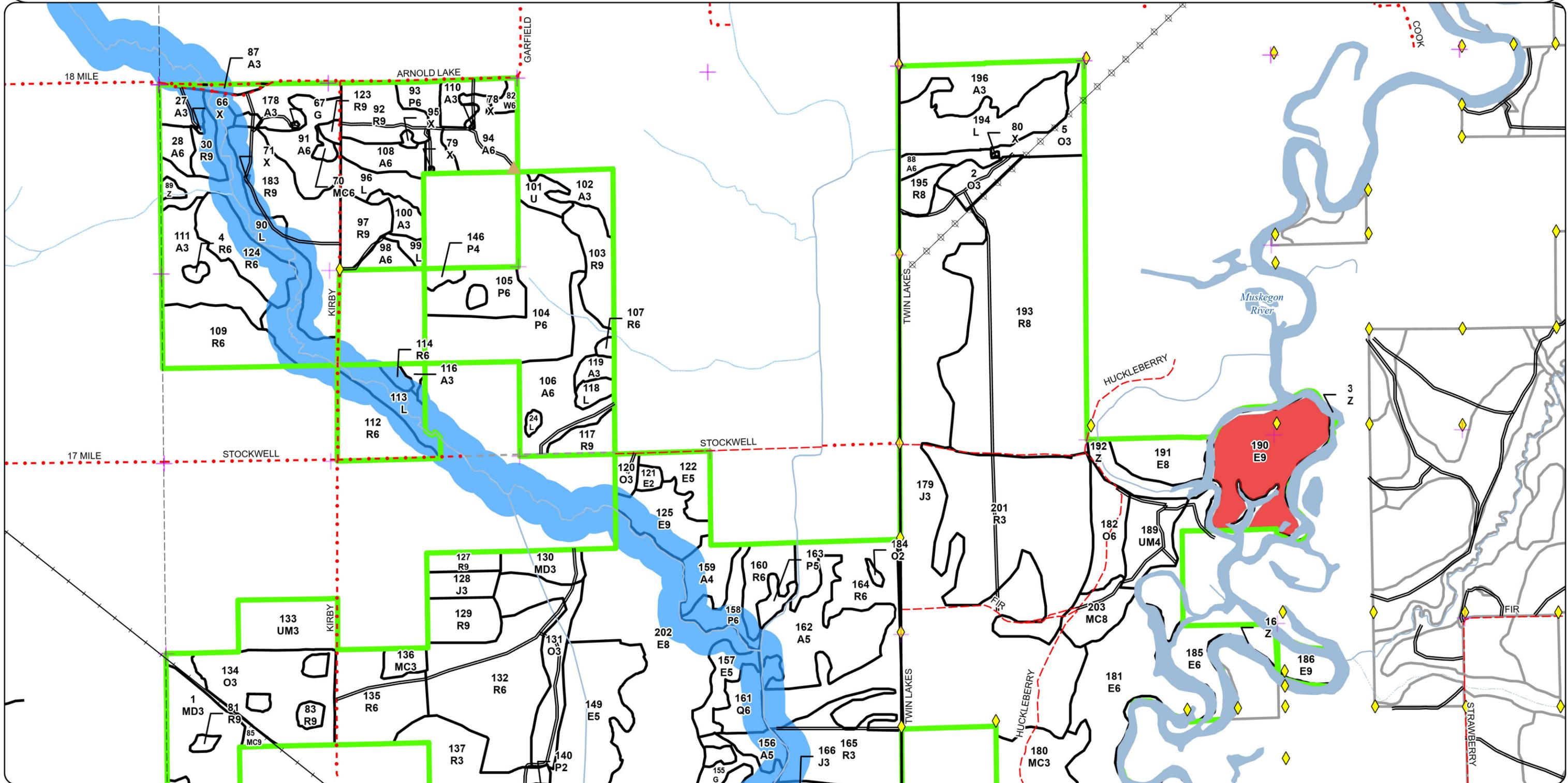


**Special Conservation Areas
& Site Conditions Map**

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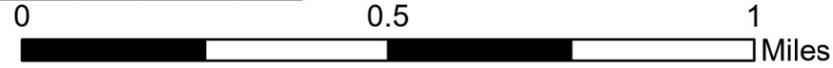


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- ▭ Compartment Boundary
- ▭ Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer

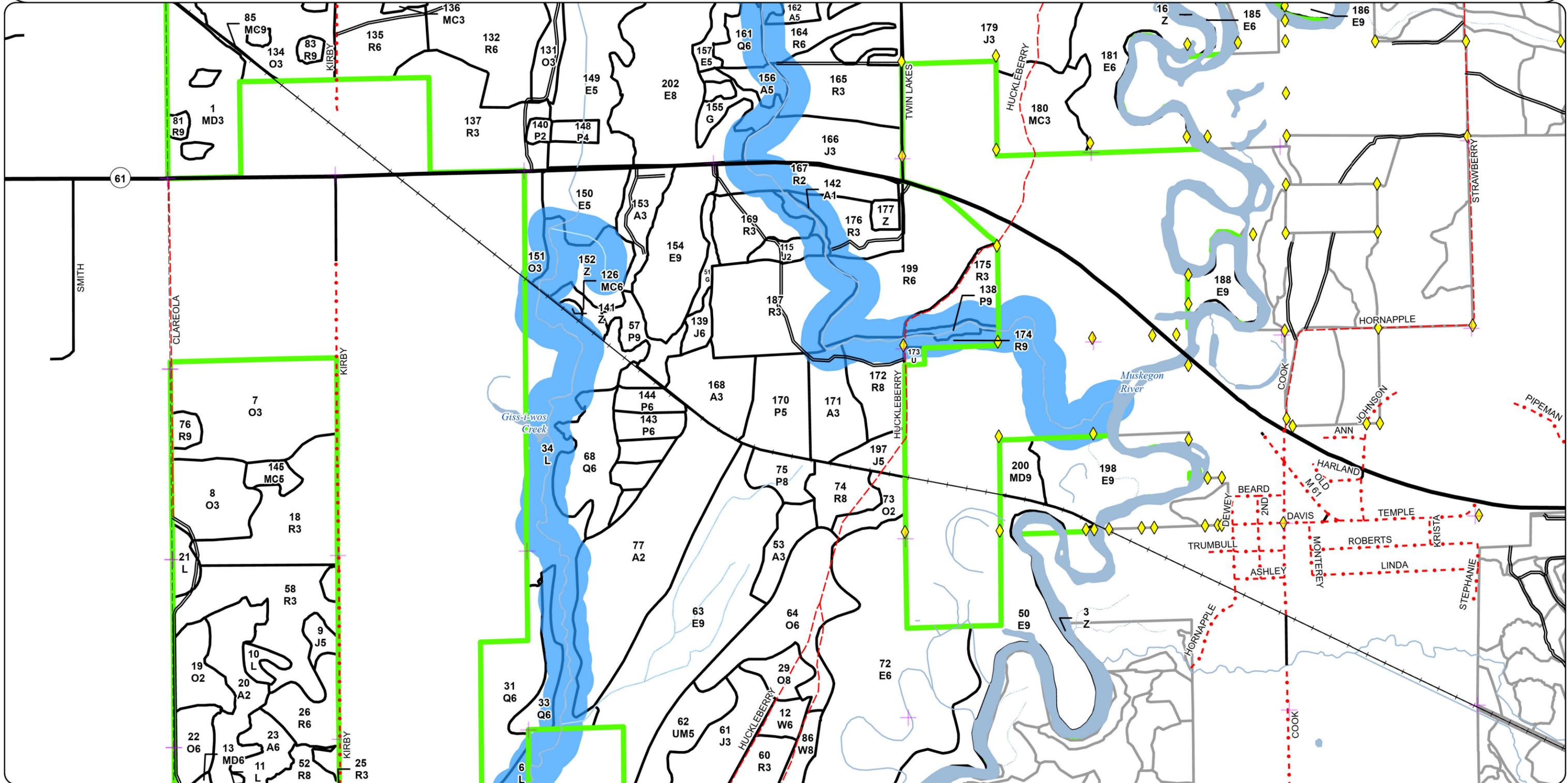


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Report 1 – Total Acres by Cover Type and Age Class

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+	Uneven-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	56	0	8	0	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	Overstory 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



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

Proposed Treatments:

45	73015045-Cut	13.4	42110 - Planted Red Pine	7	91	1-50	Harvest	Overstory Removal	4125 - Black, N. Pin Oak	Planting Record	No
<p><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</p>											
12	73015012-Cut	6.6	42100 - Planted White Pine	6	66	141- 170	Harvest	Thinning	4210 - Planted White Pine	Planting Record	No
<p><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> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</p>											
92	73015092-Cut	18.9	42110 - Planted Red Pine	9	70	141- 170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
86 73015086-Cut	12.8	42101 - Planted White Pine, Mixed Deciduous	8	66	81-110	Harvest	Thinning	4210 - Planted White Pine	Planting Record	No
<p><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.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Survey corners were not found on the south line of stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
75 73015075-Cut	8.2	6112 - Lowland Aspen	8	52	51-80	Harvest	Clearcut	6112 - Lowland Aspen	Planting Record	No
<p><u>Prescription</u> Clearcut 2 inch and up. Apply the Gladwin grouse spec, and the dry frozen spec. Add the no chipping spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, oak, maple</p> <p><u>Regen:</u></p> <p><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. Reevaluate when timber is being set-up.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
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
<p><u>Prescription</u> Remove the overstory excluding white oak. Apply the soft factor oak spec as well as, the seedling protection spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, oak, aspen, and pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
70	73015070-Cut	2.0	42260 - Natural Pine, Mixed Deciduous	6	80	81-110	Harvest	Thinning	42290 - Natural Mixed Pine	Planting Record	No
<p><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.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
103	73015103-Cut	16.5	42110 - Planted Red Pine	9	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> Thin red pine down to 90BA, follow standard marking guidelines.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
46	73015046-Cut	5.0	42220 - Natural Jack Pine	4	67	111-140	Harvest	Clearcut	4125 - Black, N. Pin Oak	Planting Record	No
<p><u>Prescription</u> Clearcut 2 inch and up, without retention due to size. Soft factor oak spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Oak, maple and conifer mixed in.</p> <p><u>Other Comment:</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.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
107	73015107-Cut	1.4	42110 - Planted Red Pine	6	70	201+	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> Thin red pine down to 120BA, follow standard marking guidelines.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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43	73015043-Cut	36.1	42110 - Planted Red Pine	8	91	81-110	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Planting Record	No
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Prescription Remove the overstory, and protect the understory. Apply the soft oak wilt spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, maple, and pine.

Regen:

Other Only corner found is in the county road, where Kirby meets Clarence.

Comment:

Site Condition: Survey Needed

Proposed Start Date: 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
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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 Only corners found were the south line.

Comment:

Site Condition: Survey Needed

Proposed Start Date: 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
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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 Only corners found were the south line.

Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/01/2026

30	73015030-Cut	6.7	42110 - Planted Red Pine	9	70	111- 140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Thin red pine down to 90 BA. Follow marking guideline.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
29	73015029-Cut	9.84	4126 - White, Black, N. Pin Oak	8	80	51-80	Harvest	Shelterwood	42290 - Natural Mixed Pine	Planting Record	No
<p><u>Prescription</u> Remove all oak species 2 inches and up. Do not cut pine, and protect pine seedlings. Add the soft factor oak wilt spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Jack, red, and white pine mixed with oak. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</p>											
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
<p><u>Prescription</u> Clearcut all species 2 inches and up, excluding white oak. Soft factor oak spec, protect understory spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Maple, white pine, red pine, and oak. <u>Regen:</u> <u>Other</u> Corners found in the county road to the south as well as to the north just off forest two track. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</p>											
52	73015052-Cut	30.6	42110 - Planted Red Pine	8	76	51-80	Harvest	Overstory Removal	4125 - Black, N. Pin Oak	Planting Record	No
<p><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</p>											
127	73015127-Cut	6.4	42110 - Planted Red Pine	9	78	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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</p>											



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
195	73015195-Cut	7.1	42110 - Planted Red Pine	8	70	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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</p>											
193	73015193-Cut	159.8	42110 - Planted Red Pine	8	76	1-50	Harvest	Overstory Removal	4122 - Oak, Pine	Planting Record	No
<p><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</p>											
183	73015183-Cut	43.9	42110 - Planted Red Pine	9	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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</p>											
172	73015172-Cut	15.9	42110 - Planted Red Pine	8	78	51-80	Harvest	Overstory Removal	4125 - Black, N. Pin Oak	Planting Record	No
<p><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</p>											



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
135	73015135-Cut	31.2	42110 - Planted Red Pine	6	78	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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</p>											
132	73015132-Cut	60.4	42110 - Planted Red Pine	6	78	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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</p>											
97	73015097-Cut	12.5	42110 - Planted Red Pine	9	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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</p>											
129	73015129-Cut	14.3	42110 - Planted Red Pine	9	89	111-140	Harvest	Overstory Removal	4125 - Black, N. Pin Oak	Planting Record	No
<p><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</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
199 73015199-Cut	57.7	42110 - Planted Red Pine	6	77	81-110	Harvest	Shelterwood	4211 - Planted Red Pine	Planting Record	No
<p><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</p>										
124 73015124-Cut	21.3	42110 - Planted Red Pine	6	70	201+	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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</p>										
123 73015123-Cut	1.7	42110 - Planted Red Pine	9	70	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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</p>										
117 73015117-Cut	8.3	42110 - Planted Red Pine	9	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
114 73015114-Cut	2.9	42110 - Planted Red Pine	6	70	201+	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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</p>										
112 73015112-Cut	22.6	42110 - Planted Red Pine	6	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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</p>										
109 73015109-Cut	29.2	42110 - Planted Red Pine	6	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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</p>										
131 73015131-Cut	26.3	4125 - Black, N. Pin Oak	3	22	Immature	Harvest	Overstory Removal	4122 - Oak, Pine	Planting Record	No
<p><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</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment
Acreage Proposed: 0

Report 4 – Site Conditions

Gladwin Mgt. Unit
Casey Owens: Examiner

Compartment: 15
Year of Entry: 2027



Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions							
		With Condition			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 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:							
2	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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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:							
9	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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Casey Owens: Examiner

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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
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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
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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

Compartment: 15
Year of Entry: 2027



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
----------	--------------	-------------	----------------	-------

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.																														
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2	4125 - Black, N. Pin Oak		9.0	23	Immature	N/A	Growing wellFinal harvest 2002. Mix of natural regeneration.																														
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3	500 - Water	Unspecified	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.																														
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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																														
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Black Cherry	10	Log	3																																		
6	6220 - Alder/Willow		22.6			No	Creek bottom stand.																														
7	4125 - Black, N. Pin Oak		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																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
8	4125 - Black, N. Pin Oak		27.3	20	Immature	N/A	Most of old overstory has fallen out not worth harvesting. Filing in well.																																													
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9	42220 - Natural Jack Pine		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.																																													
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10	622 - Lowland Shrub		4.6			No																																														
11	622 - Lowland Shrub		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		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		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		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	Unspecified	4.0			No	Stand is in the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.																											
17	4139 - Aspen, Mixed Deciduous		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		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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Northern Pin Oak	20	Log	2	15																														
19	4125 - Black, N. Pin Oak		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		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		6.6			No																												



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22	4125 - Black, N. Pin Oak		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 natural supply of course woody debris.																																													
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23	4132 - Aspen, Jack Pine		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	Poletimber Well	1.3			No	Small open wetland pocket																																													
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25	42111 - Planted Red Pine, Mixed Deciduous		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		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.																																													
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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																																													
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28	4130 - Aspen	Sapling Well	6.1	34	Immature	N/A	Clearcut in 1991, heavy aspen regeneration.																																												
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29	4126 - White, Black, N. Pin Oak		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, coarse woody debris, diversity, wildlife, camp area, seed)																																												
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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		34.1	60	141-170	N/A	Low wet site, mucky soils. Adjacent to Giss-I-Was Creek, down over a steep bank.																																												
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32	6120 - Lowland Cedar		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		12.6	38	51-80	N/A	Habitat cut in 1988.																																												
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34	622 - Lowland Shrub	Unspecified	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		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 sparse. 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		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		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		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		11.5			No	Mostly tag alder and standing water a few scattered areas of A1 and J1.																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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41 42221 - Natural Jack Pine, Mixed Deciduous 15.3 33 Immature N/A Final harvest in 1992. Mix of natural regeneration J3/A2-O1-Mr1.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	6	33
Northern Pin Oak	20	Sapling	5	33
Quaking Aspen	10	Sapling	7	33
Jack Pine	65	Sapling	5	33

42 6120 - Lowland Cedar 56.1 95 171-200 N/A Very wet dense stand. Down over the bank. Giss - I - Was Creek bisects stand. Includes marsh grass, standing water, tag alder etc.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	30	Seedling	7		Balsam Fir	High	Variable	Variable
Northern White Cedar	50	Seedling	7	95	Red Maple	Low	Variable	Variable
Hemlock	10	Seedling	9		Tag Alder	Low	5 - 10 feet	5 - 10 feet
Red Maple	10	Seedling	6					

43 42110 - Planted Red Pine 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.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100		17	91	Red Maple	High	>20 feet	>20 feet
					Red Pine	Low	Variable	Variable
					Black/Red (Hybrid) Oak	High	Variable	Variable
					Jack Pine	Low	Variable	Variable

44 4125 - Black, N. Pin Oak 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.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	10	Sapling	5		Red Pine	Low	Variable	Variable
Red Maple	15	Sapling	5					
Black/Red (Hybrid) Oak	60	Pole	4	32				
Jack Pine	10	Pole	4					
Red Pine	5	Sapling	5					

45 42110 - Planted Red Pine 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.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100		14	91	Jack Pine	Medium	Variable	Variable
					Northern Pin Oak	High	Variable	Variable
					Red Pine	Low	5 - 10 feet	5 - 10 feet
					Bigtooth Aspen	Low	Variable	Variable

46 42220 - Natural Jack Pine 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 1975 Ground cover is moss and blueberry. Lower than surrounding stands. Hold as there has been a lot of harvesting activity in the last 10 years.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	80	Seedling	8	67	Red Maple	Medium	Variable	Variable
Red Pine	20		20	91	Red Pine	Low	Variable	Variable
					Black/Red (Hybrid) Oak	High	5 - 10 feet	5 - 10 feet
					Black Cherry	Low	Variable	Variable



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
47	42141 - Planted Mixed Pine, Mixed Deciduous		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.																																																						
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48	4125 - Black, N. Pin Oak		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.																																																						
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49	4122 - Oak, Pine		29.8	16	Immature	N/A	Overstory removed in 2009 following wind damage.																																																						
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50	6113 - Lowland Maple	Sawtimber Well	76.2	80	111-140	N/A	A lowland stand with slight upland ridges intermixed.																																																						
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Red Maple	20		10																																																										
51	310 - Herbaceous Openland		5.5			No	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 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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52	42110 - Planted Red Pine		30.6	76	51-80	N/A	Understory is still in the 2 to 8 foot range but is developing well. Thinned 2018 Kirby Pine 73-002-17.																																																						
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53	4130 - Aspen		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.																																									
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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.																																									
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55	4310 - Pine, Oak Mix	Sapling 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.																																									
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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.																																									
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57	6112 - Lowland Aspen	Poletimber 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.																																									
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58	42111 - Planted Red Pine, Mixed Deciduous		46.6	15	Immature	N/A	Final harvest 2009. FTP C73-830 submitted. Planted to red pine 5/2010, FTP C73-830.																																									
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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.																																																															
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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.																																																															
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61	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	47.1	34	Immature	N/A	Final harvest 1991. Mix of natural regeneration. J3/O1-Mr1-A1.																																																															
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62	4311 - Pine, Aspen Mix		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.																																																															
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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.																																																															
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64	4126 - White, Black, N. Pin Oak		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		5.0	65	81-110	N/A	Final harvest 1997.																																																	
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66	110 - Low Intensity Urban	Unspecified	0.2				Consumers Energy gas well pad.																																																	
67	3102 - Grass	Unspecified	0.2				Consumers Energy gas well pad.																																																	
68	6123 - Lowland Fir		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	Muskegon River/ Huckleberry Trail ERA Floodplain forest, comprised of silver maple, green ash, bur oak, basswood, red oak, american beech, sugar maple, and occasional white pine hemlock.																																																	
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	Unspecified	0.1			No	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		133.7	85	111-140	N/A	Stand is in the Muskegon River flood plain. Stand floods in spring 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		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		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		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. Too wet for commercial harvest.																																													
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76	42110 - Planted Red Pine		4.4	88	81-110	N/A	Long term retention when stand 7 was cut.																																													
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77	4133 - Aspen, Mixed Pine	Unspecified	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																																							
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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.																																							
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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.																																							
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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.																																							
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84	622 - Lowland Shrub		0.8			No																																								
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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.																																									
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86	42101 - Planted White Pine, Mixed Deciduous	Sapling Poor	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.																																									
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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.																																									
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88	4130 - Aspen	Poletimber Well	6.5	63	51-80	N/A	Retention for stand 196.																																									
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89	500 - Water	Unspecified	1.7			No	Dammed area is dry during inventory 2024.Water, beaver.																																									
90	622 - Lowland Shrub	Unspecified	38.8			No	Creekbottom area, no merchantable timber, fair amount of standing dead soft maple.																																									
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95	110 - Low Intensity Urban	Unspecified	0.9				Layline Oil and Gas well pad. Oil wells & Hydrogen sulfide on site.																																																												
96	6229 - Mixed Lowland Shrub	Unspecified	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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100	4130 - Aspen	Sapling Well	5.8	34	51-80	N/A	Clearcut in 1991, coming back nice, some oak but not much.																														
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101	3303 - Mixed Low Density Trees	Unspecified	6.3			No	Blueberry, leather leaf, tag alder, open water, marsh grass, pockets of trees.																														
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102	4130 - Aspen	Unspecified	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)																														
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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																														
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104	6112 - Lowland Aspen	Poletimber Well	55.3	31	1-50	N/A	OPIC - FMD: Clearcut in 1994, coming back nice, some wet areas.																														
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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			
Black/Red (Hybrid) Oak		20	Log	2	14			
White Pine		10	Log	2				
Black Cherry		15	Pole	2				
Paper Birch		5	Log	1				
Bigtooth Aspen		10	Log	2	14			
Quaking Aspen		40	Log	2	14			
111	4130 - Aspen	Sapling Well	27.9	21	Immature	N/A	Final harvest 2004. Decent aspen regeneration. Small pocket of red pine in center of stand left un-cut.	
Canopy Species		% Cover	Size Class	DBH	Age			
Black/Red (Hybrid) Oak		10	Log	4	21			
Quaking Aspen		55	Log	3	21			
Red Maple		25	Log	3	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			
Black/Red (Hybrid) Oak		5		10				
Red Pine		95		15	70			
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		High	Variable	Variable				
Black/Red (Hybrid) Oak		High	5 - 10 feet	5 - 10 feet				
113	622 - Lowland Shrub	Unspecified	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			
Red Pine		100		11	70			
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		Low	5 - 10 feet	5 - 10 feet				
Hawthorn (spp.)		Low	5 - 10 feet	5 - 10 feet				
115	42220 - Natural Jack Pine		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			
Red Pine		2	Seedling	8	38			
Black/Red (Hybrid) Oak		3		12				
Jack Pine		70	Sapling	7	38			
Black Cherry		25	Sapling	7				
Sub-Canopy Species		Density	Avg. Height	Size				
Red Pine		Low	Variable	Variable				
Black/Red (Hybrid) Oak		Low	Variable	Variable				
Jack Pine		Medium	Variable	Variable				
Black Cherry		Low	Variable	Variable				
Little Bluestem		Medium	Not Applicable	Not Applicable				



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.																																																						
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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.																																																						
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118	6229 - Mixed Lowland Shrub	Unspecified	3.8			No																																																							
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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.																																																						
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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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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.																																								
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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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Black/Red (Hybrid) Oak	Medium	5 - 10 feet	5 - 10 feet																																												
125	6113 - Lowland Maple	Sawtimber Medium	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.																																								
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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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128	42220 - Natural Jack Pine	Sapling Well	8.2	32	Immature	N/A	Clearcut in 1993. Mix of natural regeneration.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		5	Pole	4	32				
Black/Red (Hybrid) Oak		20	Pole	4	32				
Jack Pine		75	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.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100		14	89	White Oak	Low	Variable	Variable
						Northern Pin Oak	High	Variable	Variable
						Red Pine	Trace	Variable	Variable
						Black/Red (Hybrid) Oak	High	Variable	Variable
						Jack Pine	Low	Variable	Variable
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.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		10		10					
Red Maple		20	Log	2					
Bigtooth Aspen		15	Pole	4					
Black/Red (Hybrid) Oak		40	Log	3	23				
White Pine		15		10					
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.		
Canopy Species		% Cover	Size Class	DBH	Age				
Black/Red (Hybrid) Oak		80	Log	2	22				
Red Pine		20	Log	2	22				
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.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak		5		18		White Pine	Medium	Variable	Variable
Red Pine		95		15	78	Jack Pine	Low	Variable	Variable
						Northern Pin Oak	High	Variable	Variable
						Red Pine	Medium	Variable	Variable
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 species. Clearcut in 1993, converting to oak.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		30	Seedling	5	32				
Northern Pin Oak		55	Seedling	6	32				
Red Pine		15	Seedling	6	32				



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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 2019-2020 Jack 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.																																																																			
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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.																																																																			
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136	42250 - Pine, Oak	Sapling Well	5.1	22	Immature	N/A	Clearcut in 2002. J3/O3 natural regeneration.																																																																			
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137	42110 - Planted Red Pine	Unspecified	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 YOE. Planted jack pine with trace of red pine.																																																																			
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138	6112 - Lowland Aspen		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.																																																																			
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139	42221 - Natural Jack Pine, Mixed Deciduous		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	stand is coming back strong to lowland aspen, there is a upland ridge that divides the two lowland stands. Stand was part of 137 that is now being planted to red pine. This is a small depression with low density trees & shrubs filling in.																																																		
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141	500 - Water	Unspecified	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		16.0	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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144	6112 - Lowland Aspen		14.2	38	81-110	N/A	Habitat cut 1987. Low and wet.																																																		
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145	42250 - Pine, Oak		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 Well	4.6	42	81-110	N/A	Lowland portion.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		25	Seedling	5	42	Red Maple	
Paper Birch		5	Seedling	6	42	Tag Alder	
Quaking Aspen		70	Seedling	7	42	Density	
						Avg. Height	
						Size	
148	6112 - Lowland Aspen	Sapling 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.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		40		10	40	Tag Alder	
Paper Birch		10	Pole	3	40	Black Ash	
Bur Oak		15	Log	4	40	Density	
Northern White Cedar		5	Seedling	8		Avg. Height	
Silver Maple		30	Seedling	5	40	Size	
149	6119 - Mixed Lowland Deciduous Forest	Sapling 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.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Silver Maple		30	Seedling	5	40	Tag Alder	
American Elm		15	Seedling	8		Black Ash	
Red Maple		10	Seedling	7		Density	
Paper Birch		20	Seedling	6	40	Avg. Height	
Northern White Cedar		5	Seedling	7		Size	
Quaking Aspen		20	Seedling	6	40		
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.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		45	Sapling	7	94	Ash (spp.)	
Quaking Aspen		30	Sapling	7		Aspen (spp.)	
Northern Pin Oak		25	Seedling	7		Red Maple	
						Tag Alder	
						Willow spp.	
						Density	
						Avg. Height	
						Size	
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.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		15	Seedling	8			
Jack Pine		5	Log	2			
Northern Pin Oak		80	Log	3	23		
152	500 - Water	Unspecified	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. 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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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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155	310 - Herbaceous Openland	Unspecified	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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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.																																						
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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.																																						
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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. 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																																					
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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 east. Clear 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.																																					
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169	42110 - Planted Red Pine	Unspecified	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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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.																																																			
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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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173	3303 - Mixed Low Density Trees	Unspecified	1.6			No																																																				
174	42110 - Planted Red Pine		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 seedlings Final 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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176	42110 - Planted Red Pine	Unspecified	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
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177 500 - Water Unspecified 3.7 No Old barrow pit from when M-61 was built.

178 4131 - Aspen, Oak Sapling Well 13.7 14 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Log	1	
Bigtooth Aspen	20	Log	1	14
Red Pine	5	Log	1	
Quaking Aspen	50	Log	1	14
Black/Red (Hybrid) Oak	15	Log	1	
Black Cherry	5	Log	1	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	5 - 10 feet

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.

179 42220 - Natural Jack Pine 193.3 23 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	20	Pole	4	23
Red Pine	20	Sapling	5	23
Jack Pine	60	Log	4	23

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.

180 42141 - Planted Mixed Pine, Mixed Deciduous 32.7 10 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	40	Log	2	10
Black/Red (Hybrid) Oak	20	Log	2	

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

181 6113 - Lowland Maple Poletimber Well 66.7 99 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	20		8	
White Pine	10		8	
Red Maple	70	Seedling	8	99

Sub-Canopy Species	Density	Avg. Height	Size
White Ash	Low	Variable	Variable
Red Maple	Medium	Variable	Variable
Deciduous Shrubs	Medium	5 - 10 feet	5 - 10 feet

Stand is in the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.

182 4125 - Black, N. Pin Oak 16.8 23 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	5	Sapling	5	
White Oak	15	Seedling	5	23
Northern Pin Oak	70	Sapling	5	23
Red Pine	10		10	

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.



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.																													
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184	4125 - Black, N. Pin Oak	Unspecified	1.0	10	Immature	N/A	Open pocket within the red pine, no forest health concerns at this time.																													
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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. Apply retention by leaving buffer along creek. Tim Gallagher 08/18/2014: Clear cut 2014 Whiskey River Pine 73-005-10-01. To be trenched and planted to red pine. FTP C73-890. Trenched summer of 2014. Red pine planted 4/28/2015. FTP C73-890. Planted pine check in fall of 2018, survival is poor and high competition. Release spray in 2019 and replant 2020 scheduled. 06/2019 Gallagher, treatment update. Replant 05/2019 Seed Lot ONCR601, 1 - 0. 10/18/2019 as per regeneration check FO recommends release spray. Stand aerial release spray 09/2020. Stand replanted Spring 2021.																													
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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
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189 4311 - Pine, Aspen Mix 17.6 40 51-80 N/A Scattered aspen, white pine, oak and jack pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	40		10	40	Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	8	Sapling	6		Black/Red (Hybrid) Oak	Medium	Variable	Variable
White Pine	40	Seedling	8		White Pine	Medium	Variable	Variable
Jack Pine	8	Sapling	6		Hawthorn (spp.)	Medium	5 - 10 feet	5 - 10 feet
Black Cherry	4	Seedling	9		White Oak	Low	Variable	Variable

190 6119 - Mixed Lowland Deciduous Forest Sawtimber Well 48.7 108 81-110 N/A Muskegon River/ Huckleberry Trail ERA floodplain 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.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bur Oak	8		18		Balsam Fir	Medium	Variable	Variable
American Elm	2	Seedling	8		White Ash	Low	Variable	Variable
Silver Maple	75		18	108	Red Maple	Medium	Variable	Variable
Basswood	15		10	108	Tag Alder	Medium	5 - 10 feet	5 - 10 feet

192 500 - Water Unspecified 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

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100		14	76	White Oak	Low	Variable	Variable
					Black/Red (Hybrid) Oak	High	5 - 10 feet	5 - 10 feet
					White Pine	Medium	Variable	Variable
					Jack Pine	Low	Variable	Variable
					Black Cherry	Low	Variable	Variable
					Red Pine	Low	Variable	Variable

194 622 - Lowland Shrub Unspecified 34.8 No

195 42110 - Planted Red Pine 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 were harvested.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100		13	70	Red Pine	Low	Variable	Variable
					Black/Red (Hybrid) Oak	Medium	Variable	Variable
					Jack Pine	Medium	Variable	Variable



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.																																																		
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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.																																																		
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198	6113 - Lowland Maple		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.																																																		
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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																																																		
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200	4191 - Mixed Upland Deciduous with Conifer		10.3	70	141-170	N/A	Mostly uplands site with access problems.																																																		
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201	42111 - Planted Red Pine, Mixed Deciduous		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.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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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	
Northern White Cedar		2	Seedling	8		Red Maple	
Basswood		20		12		Green Ash	
American Elm		10	Seedling	7		American Elm	
Silver Maple		68		18	127	Black Ash	
						Density	Avg. Height
							Size
						Low	Variable
						Full	5 - 10 feet
						Low	5 - 10 feet
						High	Variable

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	
White Oak		5		10		Red Maple	
White Pine		47		12	60	Red Pine	
Jack Pine		5	Sapling	5		Black/Red (Hybrid) Oak	
Northern Pin Oak		18		15		White Pine	
Red Pine		25		10			
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							Size
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						Low	Variable
						Medium	Variable
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