



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73111

Entry Year: 2028

Acreage: 5,728

County: Midland

Management Area: Gladwin Lake Plain

Stand Examiner: Scott Shooltz

Legal Description:

T14N R02W, Sections 1 - 6 10 - 12; T15N R01W, Section 31; T15N R02W, Sections 26, 31 - 36.

Identified Planning Goals:

Vegetation management in the Gladwin Lake Plain Management Area and this compartment will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character; threatened, endangered and special concern species; and provide for forest-based recreational uses. A significant portion of the compartment is lowland and therefore relatively inaccessible. Timber management for this 10-year planning period will focus on balancing the age-class distributions for even age management. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends in this 10-year planning period will be the continued need to address illegal off-road vehicle use and trash dumping. Developing a forest road strategy in this compartment should help address these issues.

Soil and topography:

The compartment is predominantly ridges surrounding broad wet areas and forested drains. Many of the stands have considerable micro relief in the form of hummocky ground or areas with complex drainage patterns. The main soil types are Pipestone Sand and Covert Sand, which makes up most of the ridges in the compartment, and Kingsville loamy fine sand that makes up much of the lowland. Also, the compartment has significant areas of Adrian muck and Kinross mucky sand that are components of the wetter lowland.

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

Overall the compartment is fairly contiguous state land with adjacent blocks of state ownership to the north. A smaller block of state ownership also lies to the east and west. There are several inclusions of private land throughout the compartment ranging from one acre parcels to large multiple ownership blocks. These private lands are mainly recreation properties, the properties to the west, east and south are primarily permanent residences.

Unique Natural Features:

There were no threatened or endangered species located in the compartment on file. There are historical records of Flying Squirrel and Ram's head lady's-slipper in the Southwestern area of the compartment.

Archeological, Historical, and Cultural Features:

One archeological site is located within this compartment. High potential sites also exist within the compartment.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Carroll Creek Drain runs through the compartment which is a warm water stream roughly 12 feet wide. The drain is a tributary to the Tittabawassee. Although not recently surveyed, past surveys rated the stream habitat in poor to severely poor (1992, 1997) shape due mostly to shifting sand and impacted by channelization. Surveys indicate that a canopy cover was redeveloping and helping the system as was vegetation along the banks. Macro-invertebrates rated as acceptable and fish were rated as good to slightly impaired. Care should be taken to maintain immediate bank stability and canopy cover.

Wildlife Habitat Considerations:

Wildlife Habitat Considerations: Compartment #107 contains a variety of vegetative types from both upland and lowland systems, making it suitable for a number of wildlife species. Game species likely to be present in this compartment include bobcat, raccoon, coyote, wild turkey, ruffed grouse American woodcock and white-tailed deer. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These include pileated woodpecker, red-headed woodpecker, gray catbird, redbellied vireo, white-throated sparrow, hermit thrush, red-breasted nuthatch and golden winged warbler. The compartment is easily accessible to hunters via Coleman Road and Olson Road.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial development of metallic minerals in this part of the state. Known recently active sand/gravel operations occur less than one mile from the compartment to the west and south, with additional commercial operations just over one mile to the east. There appears to be potential for sand & gravel within the compartment but also significant amounts of clay in places. Pervasive wetlands and a shallow water table could inhibit surface mining in the compartment. The giant Mount Pleasant oil field occurs at the south end of the compartment. The field is mostly abandoned, but some legacy leases within the compartment are still held by producing wells farther away. Some recent leasing activity exists just to the southeast, and there may be some potential to revisit old fields like the Mount Pleasant. There is also history of natural brine production in the area south of the compartment. Such brines may have some potential to host critical minerals and elements. 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:

The primary access points to this compartment are from Coleman Rd., Magruder Rd. (north and south), Olson and Geneva Rds., and Huckleberry Rd. Access is limited seasonably in this compartment with no roads passing completely through the compartment east to west or north to south. Most of these roads follow dry upland ridges where available but eventually cross through or end at low drainages resulting in degraded roads and resource damage. Without proper road construction and planning resource damage will continue in this compartment.

Survey Needs:

No surveys needed at this time. Small inholdings have been surveyed.

Recreational Facilities and Opportunities:

No designated recreational facilities or trails are located in this compartment. The recreational use in this compartment is primarily hunting associated, vehicle traffic and hunting camps in the fall. Some equestrian use was observed on two tracks throughout the compartment.

Fire Protection:

There is limited access to the central portions of the compartment but there are multiple access points around the perimeter. The cover types throughout the compartment are not fire prone species however dispersed camping on dry upland ridges throughout the compartment combined with poor access could result in multiple ignitions with slow response times. The area is a mix of dry ridges intermixed with wetland and natural fire breaks so large fires will most likely not be common however because of the large amount of organic soils, there could be extensive mop afterwards. The access to the compartment could be greatly improved for fire suppression by implementing a road plan allowing year round access across the compartment east to west and north to south.

Additional Compartment Information:

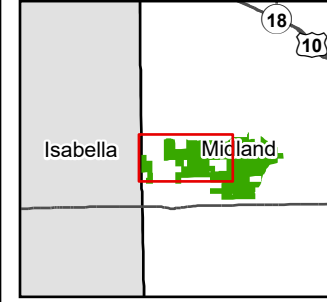
The following reports from the Inventory are attached:

- 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**

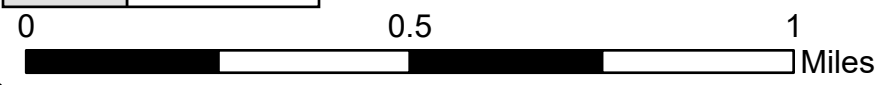
The following information is displayed, where pertinent, on the attached compartment maps:

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

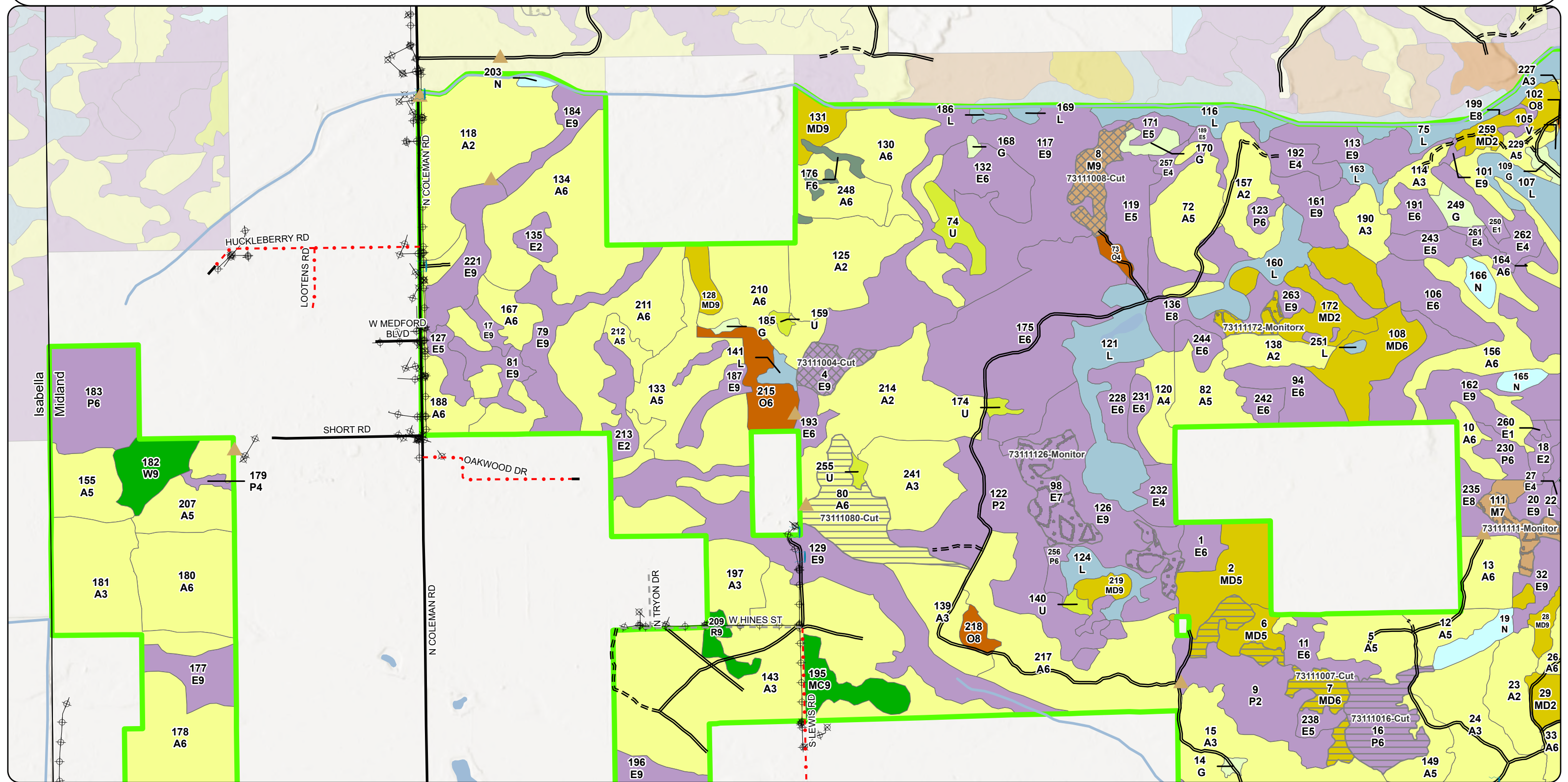
Cover Type & Treatments Map



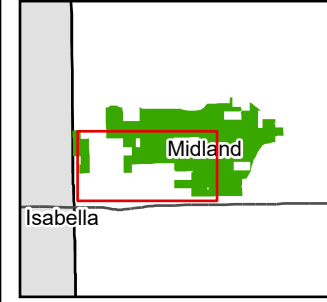
Compartment: 73111
 T14N R02W Sec. 1-6,10-12
 County: Midland
 Unit: Gladwin
 Mgmt. Area: Gladwin Lake Plain
 YOE: 2028
 Acres: 5,728 GIS Calculated
 Examiner: Scott Shooltz
 Date Exported: 05/21/2026
 Map Phase: Web Post



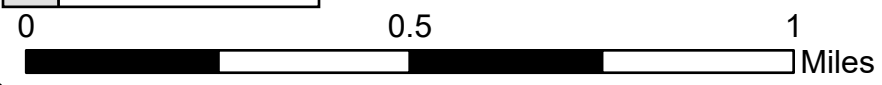
- Culvert
- Berm
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Electric
- Compartment Boundary
- Clearcut
- Selection
- Monitoring - Regeneration
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



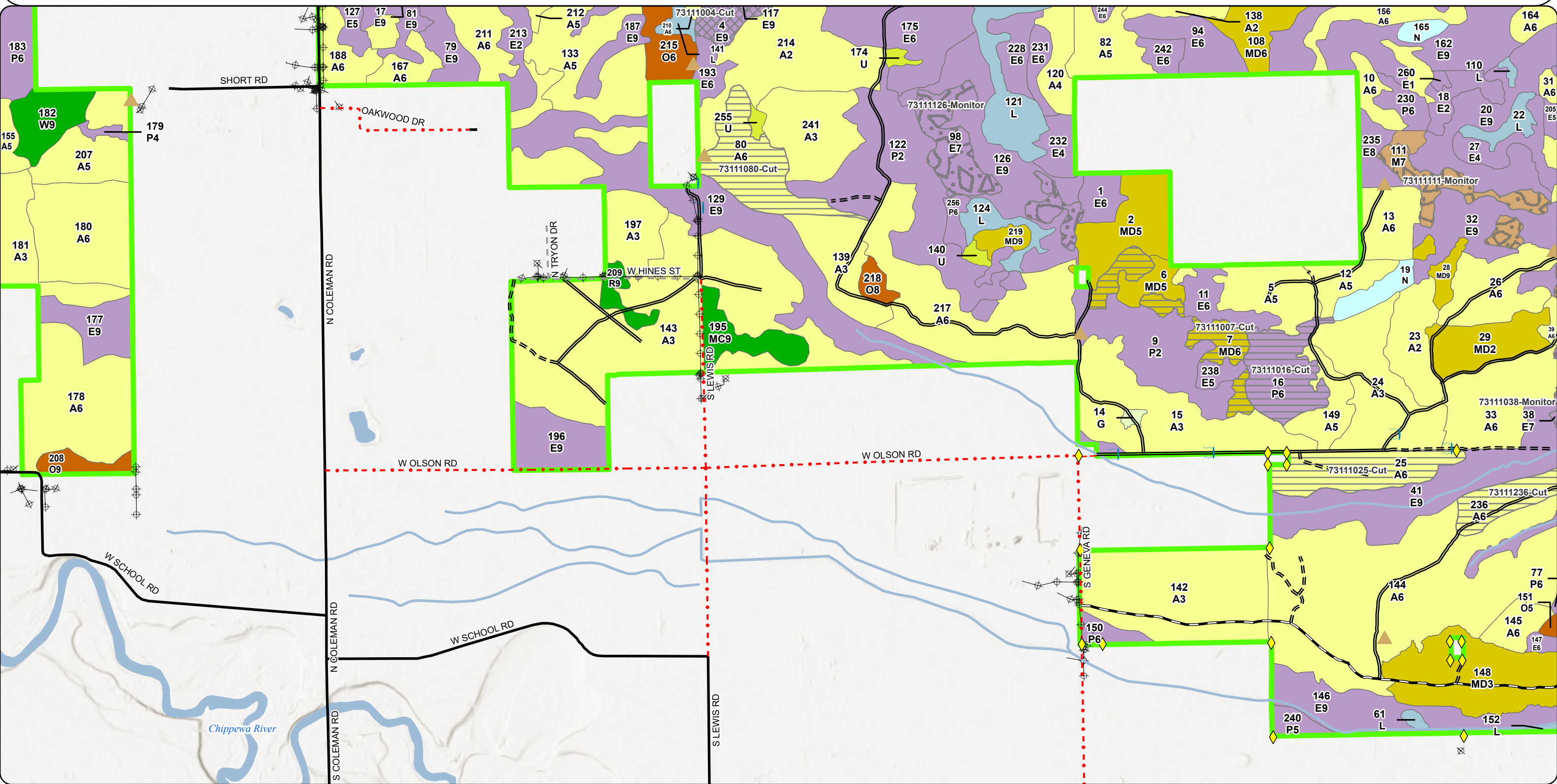
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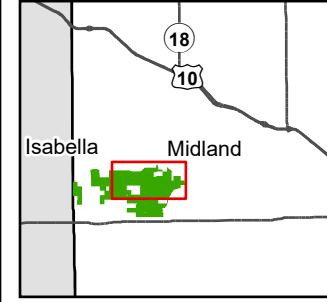
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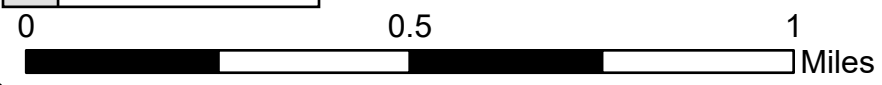
- ◆ Survey Grade Corners
- Culvert
- ▲ Berm
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
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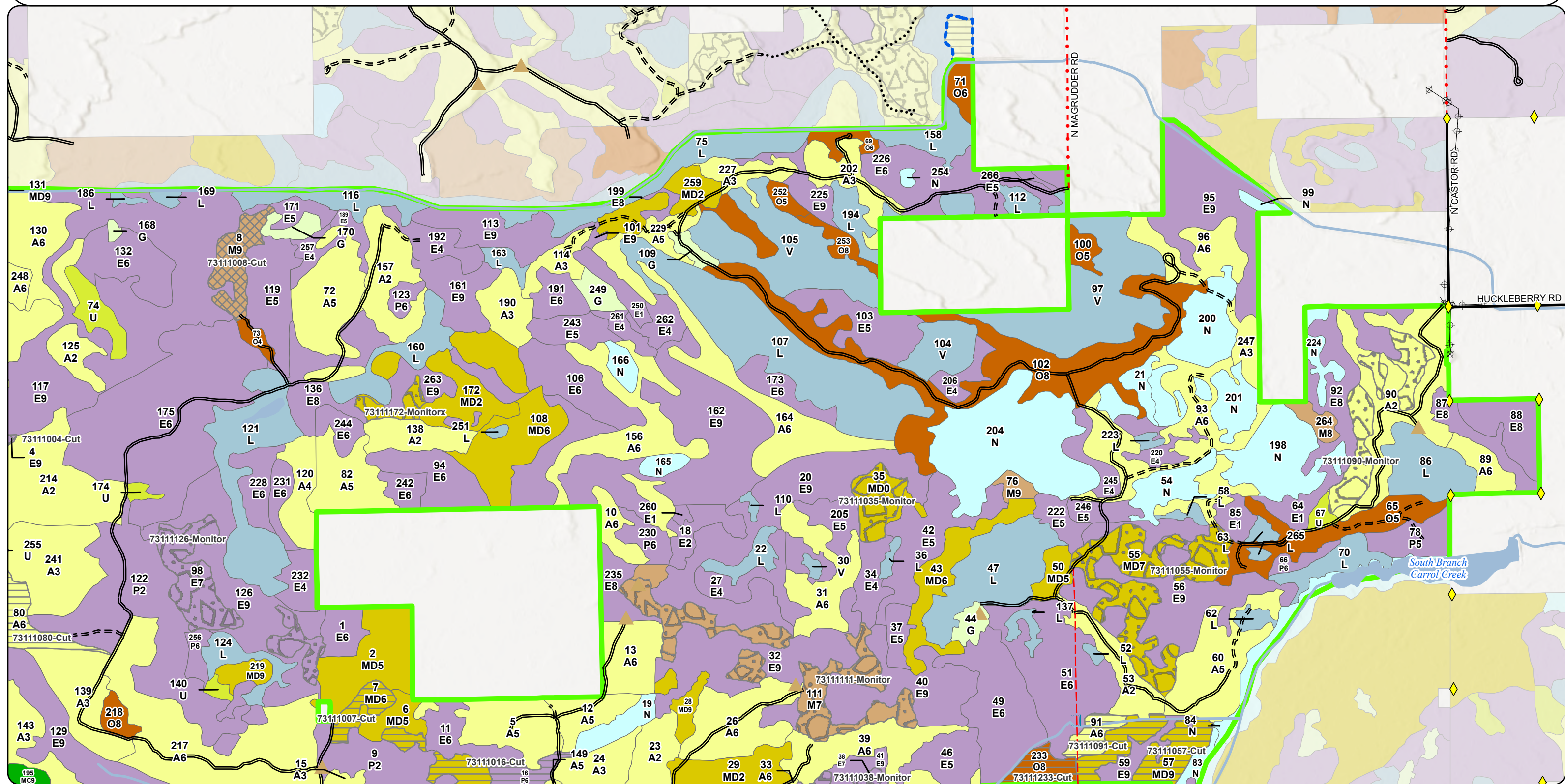
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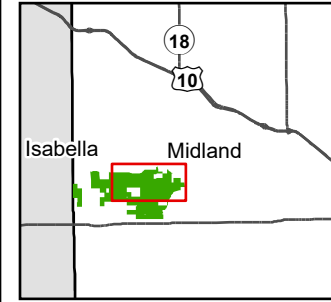
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- Survey Grade Corners
- County - Gravel Road
- Treatments with Site Conditions
- 419 - Mixed Upland Decidous
- Culvert
- County - Dirt Road (Seasonal)
- Clearcut
- 422 - Natural Pines
- Berm
- DNR - Management Access
- Selection
- 611 - Lowland Deciduous Forest
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- Streams
- Monitoring - Regeneration
- DNR - Forest Access Route
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Stand Boundary Map

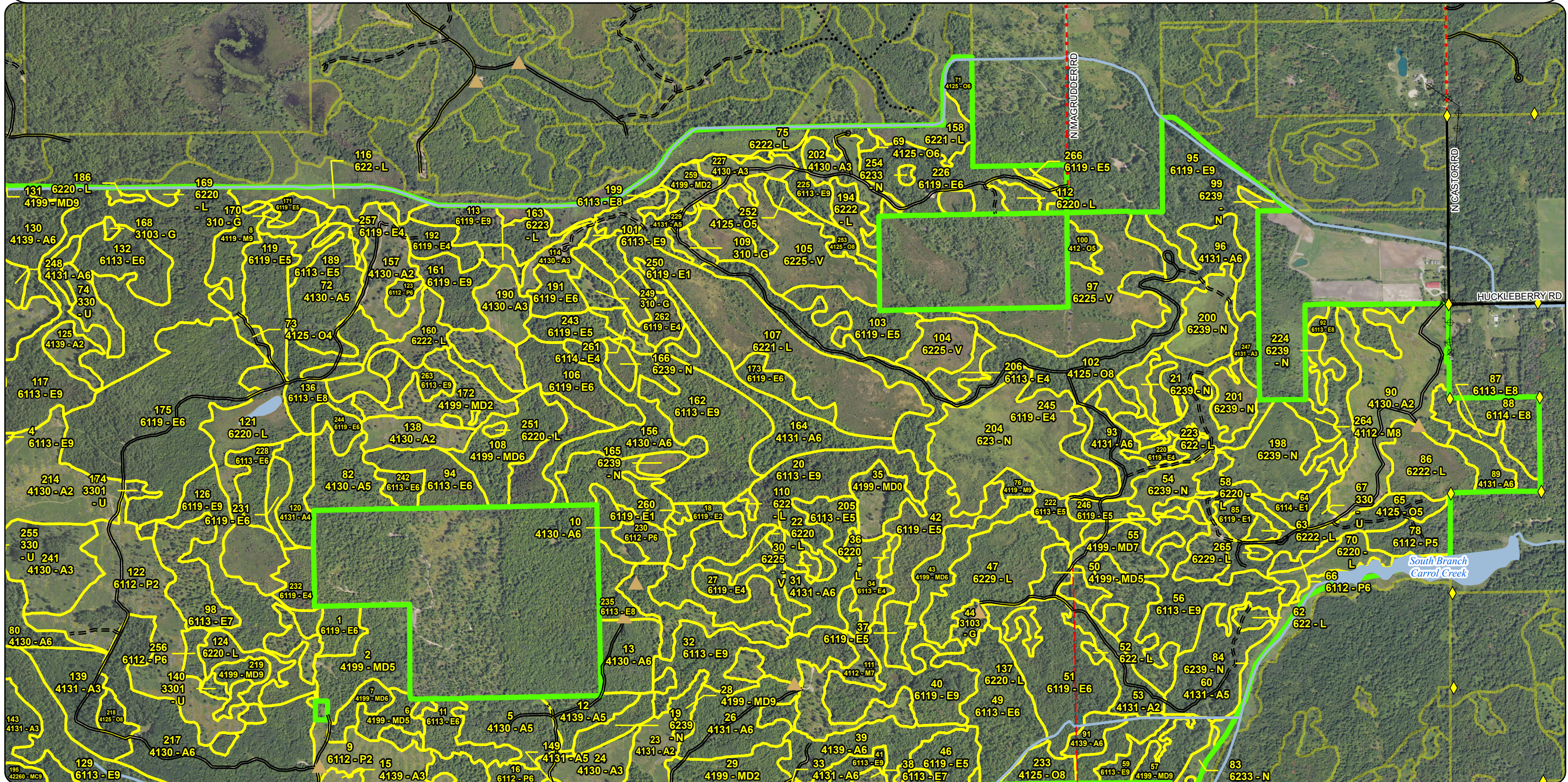
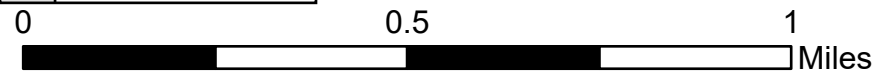


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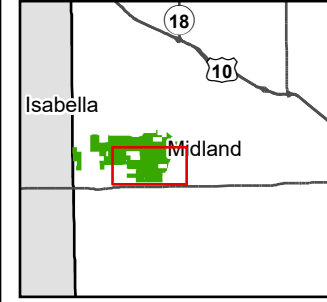
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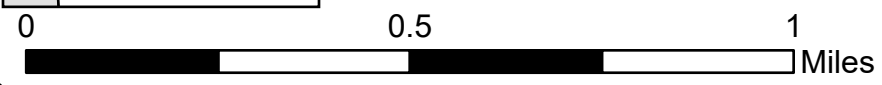
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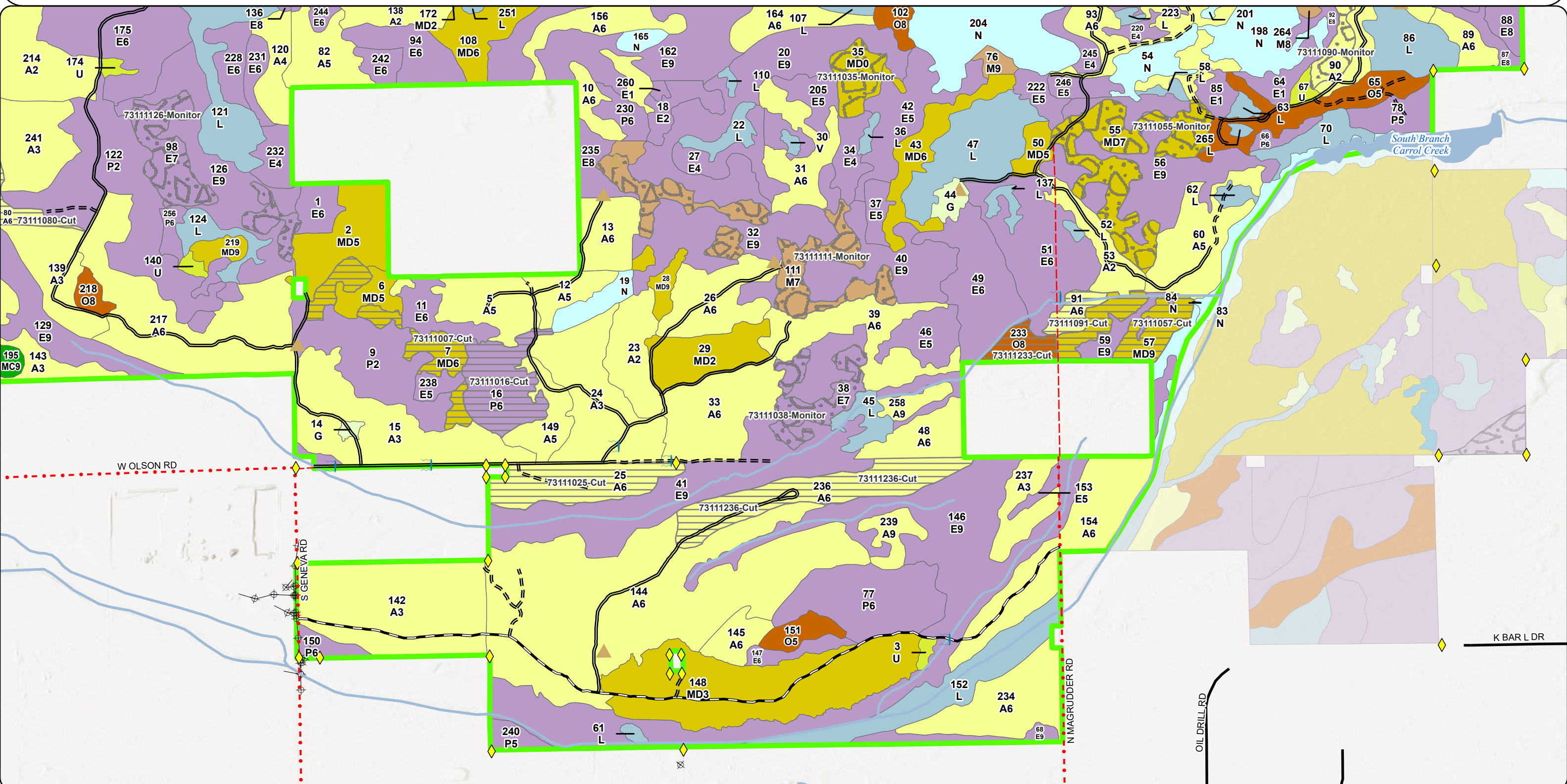
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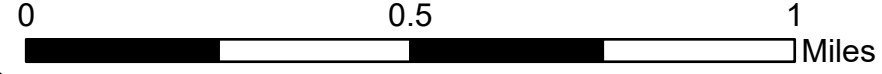
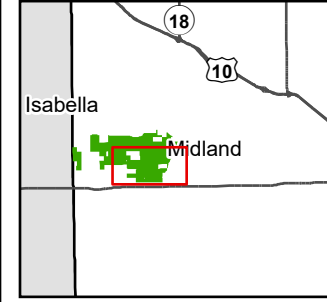


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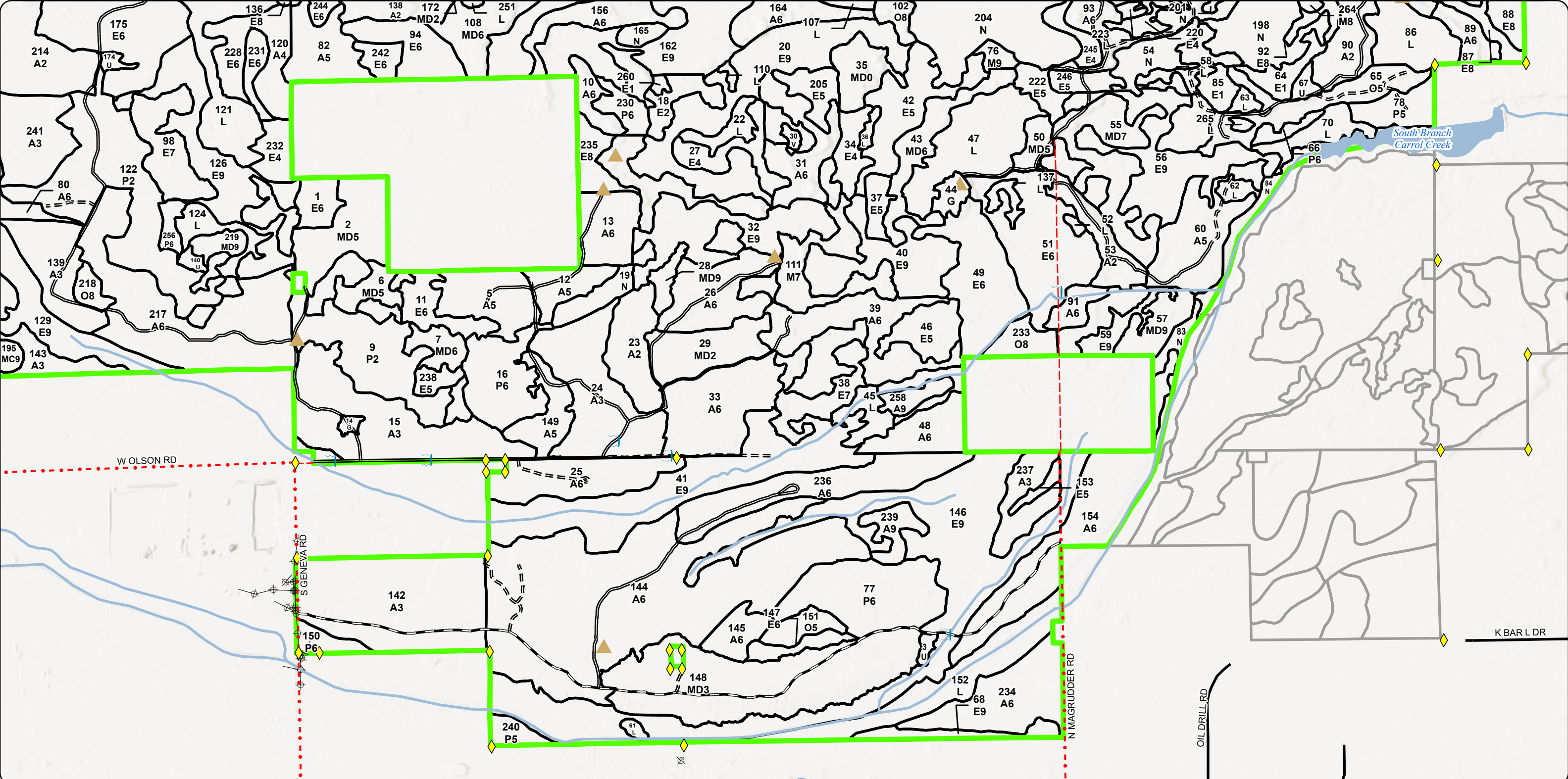


Special Conservation Areas & Site Conditions Map

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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	607	179	226	1036	207	0	0	9	6	0	0	0	0	0	0	0	0	2269
Bog	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Low-Density Trees	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Aspen/Balsam Poplar	0	106	0	0	22	93	41	6	0	0	0	0	0	0	0	0	0	0	268
Lowland Deciduous	0	0	0	74	263	127	165	55	227	183	247	193	91	0	0	0	0	160	1782
Lowland Shrub	366	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366
Marsh	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200
Mixed Upland Deciduous	14	135	0	52	28	0	33	9	17	29	66	0	0	0	0	0	0	0	382
Natural Mixed Pines	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	16
Northern Hardwood	0	0	0	0	0	0	0	0	4	14	45	0	0	0	0	0	0	5	67
Oak	0	0	0	0	46	5	17	91	0	0	17	0	0	0	0	0	0	18	194
Red Pine	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Upland Spruce/Fir	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	18
Total	738	848	179	352	1395	432	274	182	257	232	382	193	91	0	0	0	0	183	5732



Report 2 – Treatment Summary

Gladwin Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 111
Total Compartment Acres: 5,728

Commercial Harvest - 426
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	108	0	0	0	0	0	0	0	0	108
Lowland Aspen/Balsam Poplar	27	0	0	0	0	0	0	0	0	27
Lowland Deciduous	0	10	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	45	0	0	0	0	0	0	0	0	45
Northern Hardwood	0	14	0	0	0	0	0	0	0	14
Oak	9	0	0	0	0	0	0	0	0	9
Total	189	24	0	0	0	0	0	0	0	213

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	213	0	0	0	0	0	173	0	0	387
Next Step	0	0	0	0	0	0	213	0	0	213
Total	213	0	0	0	0	0	387	0	0	600



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:

4	73111004-Cut	10.2	6113 - Lowland Maple	9	105	111- 140	Harvest	Selection	6113 - Lowland Maple	Cutting Record	No
<p><u>Prescription</u> Thin stand to a target residual of 90 BA/acre. Favor to retain large diameter pole sized maple and white oak. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A naturally regenerated stand of maple and oak meeting minimum stocking standards. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027</p>											
7	73111007-Cut	21.8	4199 - Other Mixed Upland Deciduous	6	81	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Planting Record	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in diameter. No retention due to small multipart polygons & need to maximize regeneration. Add dry/frozen spec. Add Gladwin grouse spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A naturally regenerated stand of mixed deciduous meeting minimum stocking standards. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027</p>											
8	73111008-Cut	14.1	4119 - Mixed Northern Hardwoods	9	85	111- 140	Harvest	Selection	611 - Lowland Deciduous Forest	Cutting Record	No
<p><u>Prescription</u> Thin stand to a target residual of 90 BA/acre. Favor to retain larger diameter pole sized maple and white oak. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A naturally regenerated stand of mixed deciduous meeting minimum stocking standards. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027</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
16	73111016-Cut	27.3	6112 - Lowland Aspen	6	51	81-110	Harvest	Clearcut	6112 - Lowland Aspen	Planting Record	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in diameter. Follow standard island retention. Focus retention around wetter ground. Add dry/frozen spec. <u>Specs:</u> Add Gladwin grouse spec. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A naturally regenerated stand of aspen with mixed deciduous meeting minimum stocking standards. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027</p>											
25	73111025-Cut	29.5	4131 - Aspen, Oak	6	44	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in diameter. Follow standard retention guidelines. Focus retention around areas of oak. Add Gladwin grouse spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A naturally regenerated stand of aspen and mixed deciduous meeting minimum stocking standards. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027</p>											
35	73111035-Monitor	12.0	4199 - Other Mixed Upland Deciduous	0	7	Immature	Monitoring	Monitoring - Regeneration	4121 - Oak, Aspen		No
<p><u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Full to medium stocking of oak, aspen and maple. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027</p>											
38	73111038-Monitor	18.9	6113 - Lowland Maple	7	88	1-50	Monitoring	Monitoring - Regeneration	611 - Lowland Deciduous Forest		No
<p><u>Prescription</u> Second natural regen monitoring due to wet conditions and narrow stand shape. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Any mix of aspen, maple, and oak meeting minimum stocking levels. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027</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
55 73111055-Monitor	42.8	4199 - Other Mixed Upland Deciduous	7	91	1-50	Monitoring	Monitoring - Regeneration	4199 - Other Mixed Upland Deciduous		No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any mix of aspen, maple, and oak meeting minimum stocking levels. Primary regeneration will be from stump sprouts.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										
57 73111057-Cut	23.2	4199 - Other Mixed Upland Deciduous	9	96	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Planting Record	No
<p><u>Prescription Specs:</u> Cut all trees 2 inches and greater in diameter. No retention due to stand size & multipart polygon. Add dry/frozen spec. Add oak wilt for haul route.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> A naturally regenerated stand of mixed deciduous meeting minimum stocking standards.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										
80 73111080-Cut	32.5	4130 - Aspen	6	44	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription Specs:</u> Cut all trees 2 inches and greater in diameter. Follow standard island retention. Add Gladwin grouse spec.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> A naturally regenerated stand of aspen with mixed deciduous meeting minimum stocking standards.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</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
90 73111090-Monitor	22.4	4130 - Aspen	2	5	Immature	Monitoring	Monitoring - Regeneration	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Natural regeneration check</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully stocked aspen stand but will accept any mix of aspen, maple, and oak meeting minimum stocking levels.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										
91 73111091-Cut	6.9	4139 - Aspen, Mixed Deciduous	6	48	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in diameter. No retention due to stand size. Add Gladwin grouse spec. Add oak wilt for haul route.</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> A naturally regenerated stand of aspen with mixed deciduous meeting minimum stocking standards.</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> 10/01/2027</p>										
111 73111111-Monitor	42.0	4112 - Maple, Beech, Cherry Association	7	99	1-50	Monitoring	Monitoring - Regeneration	4199 - Other Mixed Upland Deciduous		No
<p><u>Prescription</u> Second natural regen monitoring due to wet conditions and narrow stand shape.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of the current species meeting minimum stocking levels.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</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
126 73111126-Monitor	29.5	6119 - Mixed Lowland Deciduous Forest	9	70	81-110	Monitoring	Monitoring - Regeneration	611 - Lowland Deciduous Forest		No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of maple, oak, aspen, and birch meeting minimum stocking levels. <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027</p>										
172 73111172-Monitorx	5.7	4199 - Other Mixed Upland Deciduous	2	6	Immature	Monitoring	Monitoring - Regeneration	4199 - Other Mixed Upland Deciduous	Planting Record	No
<p><u>Prescription</u> Monitor <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of aspen, maple and oak meeting minimum stocking levels. Aspen has a sin chance of regenerating. <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027</p>										
233 73111233-Cut	8.9	4125 - Black, N. Pin Oak	8	96	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Planting Record	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in diameter. No retention due to stand size. Add oak wilt for haul route. Add grouse spec <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> A naturally regenerated stand of mixed deciduous meeting minimum stocking standards. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027</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
236 73111236-Cut	38.8	4130 - Aspen	6	42	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in diameter. Follow standard retention guidelines. Focus retention around wetter ground in the northeast part of stand. Add Gladwin grouse spec. Add oak wilt for haul route.</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> A naturally regenerated stand of aspen with mixed deciduous meeting minimum stocking standards.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										

Total Treatment Acreage Proposed: 386.5

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Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions							
		With Condition				2B	5B	5C	2G	2H	3J	5A	5E
2051	1905	112	33		Aspen	89		23	1			9	23
113	113	0	0		Bog								
23	23	0	0		Herbaceous Openland								
22	22	0	0		Low-Density Trees								
228	143	48	38		Lowland Aspen/Balsam Poplar	44		4	32				6
1782	506	36	1240		Lowland Deciduous		29	7	1,235	4	1		
366	366	0	0		Lowland Shrub								
200	200	0	0		Marsh								
321	282	0	39		Mixed Upland Deciduous							33	6
16	16	0	0		Natural Mixed Pines								
25	18	0	7		Northern Hardwood					5			3
193	169	8	17		Oak		8			11		6	
7	0	7	0		Red Pine			7					
5	0	5	0		Upland Spruce/Fir			5					
18	0	18	0		White Pine			18					
5,368	3,762	233	1,374		Total Forested Acres	133	36	63	1,268	20	1	49	37
	70%	4%	26%		Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5A: Not able to obtain desirable regeneration	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand will not reach minimum stocking levels if cut by itself. Heavy browse found on adjacent cuts.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	304	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Blocked by wet ground on both state and private.							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	63	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	115	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	86	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	67	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	143	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Parts of stand have been harvested in the past & did not regenerate well. Highly prone to swamping out.							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	91	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	5A: Not able to obtain desirable regeneration	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Areas of oak canopy show little to no regeneration in the understory. If stand is harvested the stand will not regenerate due to browse issues. Larger acreage cuts will help mitigate regeneration issues.							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	4A: No markets available for these forest products	Unspecified	Unspecified	Unspecified
Comments: Small pole sized aspen stand. Let stand mature & harvest with adjacent stands for larger acreage cut. This will help regeneration and browse issues.							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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34	Unavailable	5A: Not able to obtain desirable regeneration	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Nearby monitoring treatments show what narrow / small acreage cuts will result in. Heavy deer browse on small acre cuts.							
35	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Hold stand until adjacent stand is ready for commercial harvest.							
37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	77	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	5E: Long-Term Retention	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Multi-polygon condition. Both serve as retention for stand 214 but are also too wet to cut.							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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44	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Wet spill way at north end blocks state access. Sand ridge runs into private. Would need a lot of road work to access.							
46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Unavailable	5A: Not able to obtain desirable regeneration	6	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: State access blocked by Carrol Creek Drain and wetland. Small acreage oak stand. Will not be able to obtain desirable oak regeneration if cut due to browse concerns.							
48	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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52	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Some upland knobs may be accessible from adjacent stands.							
58	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Stand can be accessed to droughty years via Magruder R-O-W. Unpredictable access. Possible ridge access through adjacent PVT.							
63	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
64	Unavailable	5E: Long-Term Retention	3	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
66	Available	5B: Maintain for regeneration purposes	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



70	Unavailable	5E: Long-Term Retention	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
71	Unavailable	5E: Long-Term Retention	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
72	Unavailable	5E: Long-Term Retention	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
73	Available	2B: Unknown if access through adjacent landowner(s) is possible	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Short Rd. McNitt not developed. Maintained portion of Short Rd. ends before it touches State ownership.							
75	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							

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76	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
77	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
80	Available	2B: Unknown if access through adjacent landowner(s) is possible	42	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: Short Rd. McNitt not developed. Maintained portion of Short Rd. ends before it touches State ownership.							
82	Available	2B: Unknown if access through adjacent landowner(s) is possible	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Short Rd. McNitt not developed. Maintained portion of Short Rd. ends before it touches State ownership.							
84	Unavailable	5E: Long-Term Retention	2	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Long-term retention for stand 118. Also acts as a buffer for Carrol Creek.							
85	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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86	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-Term Retention for stand 241.							
87	Available	2B: Unknown if access through adjacent landowner(s) is possible	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Short Rd. McNitt not developed. Maintained portion of Short Rd. ends before it touches State ownership.							
89	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
90	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-Term Retention for stand 202.							
91	Unavailable	5A: Not able to obtain desirable regeneration	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sparse oak peninsula. Removed from 2018 YOE prep acres. Will not regenerate to adequate stocking if final harvested.							
94	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 122.							

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96	Unavailable	5E: Long-Term Retention	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Multi-polygon condition. Both serve as retention for stand 214 but are also too wet to cut.							
97	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Forested drain.							
98	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 148.							
99	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 230.							
100	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Forested drain in close proximity to Carrol Creek Drain.							
101	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention stand 190.							

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102	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 172.							
103	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area retention for stand 15.							
105	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area retention for stand 142.							
106	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 35.							
107	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 90.							
115	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area retention for stand 125.							
116	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area retention for stand 157.							

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120	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:
Area retention for stand 28.

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	8.7	38	1-50	N/A	Minimum piece utilization harvest left a high residual density of poles. A portion of the understory has succeeded into the canopy & is now featured. Overall a lowland covertype with an upland ridge running through the middle of the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		40	Pole/Sap/Log	8	38	Red Maple		Medium	>20 feet	>20 feet
Paper Birch		6	Pole	7		Swamp White Oak		Low	>20 feet	>20 feet
Quaking Aspen		5	Pole	8		Black/Red (Hybrid) Oak		Low	10 - 20 feet	10 - 20 feet
Black/Red (Hybrid) Oak		27	Pole/Sap/Log	8		Michigan Holly		Low	5 - 10 feet	5 - 10 feet
Swamp White Oak		22	Pole/Log/Sap	9						
2	4199 - Other Mixed Upland Deciduous	Poletimber Medium	28.3	21	Immature	N/A	Stand cut in September of 2005 during the dry season. Overall a well stocked stand of mixed hardwoods continuing to fill in as the oak matures.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		35	Pole/Sapling	5	21					
White Oak		15	Sapling/Pole	4	21					
Black/Red (Hybrid) Oak		25	Sapling/Pole	4	21					
Quaking Aspen		15	Sapling/Pole	4	21					
Bigtooth Aspen		10	Pole/Sapling	5	21					
3	3301 - Low Density Deciduous Trees	None	1.8			No	This portion of previous harvest has not regenerated. Swamp grass with red maple seed trees. 2024 Sale Closure: Harvested in 2021 under contract 73-006-18, Bemaltes Wald Mix. Shelterwood harvest retaining 40 - 60 sqft of oak and maple.			
Sub-Canopy Species		Density	Avg. Height	Size						
Red Maple		Trace	>20 feet	>20 feet						
4	6113 - Lowland Maple	Sawtimber Well	10.2	105	111-140	N/A	Lowland maple stand separated from adjacent large E-type complex. This ground is more suitable for harvest. There is a mixed oak log component in stand with white oak regeneration in the subcanopy.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		65	Log/XLog	17	105	Red Maple		Medium	Variable	Variable
White Oak		10	Log/XLog	17		Michigan Holly		Low	5 - 10 feet	5 - 10 feet
Paper Birch		2	Log	12		Swamp White Oak		Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen		5	Log	16						
Black/Red (Hybrid) Oak		8	Log	16						
Swamp White Oak		10	Log	14						
5	4130 - Aspen	Poletimber Medium	24.0	38	81-110	N/A	Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988. Poor quality aspen and patchy stand in areas.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		12	Pole	7	38	Northern Pin Oak		Low	10 - 20 feet	10 - 20 feet
Quaking Aspen		20	Pole	7	38	Red Maple		Low	10 - 20 feet	10 - 20 feet
Northern Pin Oak		8	Pole	7	38	Dogwood (spp.)		Low	< 5 feet	< 5 feet
Bigtooth Aspen		60	Pole	7	38					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
6	4199 - Other Mixed Upland Deciduous	Poletimber Medium	8.6	61	81-110	N/A	Mixed upland deciduous with a large lowland influence throughout the stand. Oak dominant canopy with maple and aspen filling in the gaps.																																																								
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7	4199 - Other Mixed Upland Deciduous	Poletimber Well	21.8	81	81-110	N/A	Multi-polygon stand consists of mixed upland deciduous. There are areas of sparse canopy cover. Aspen is continuing to decline and fall out.																																																								
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8	4119 - Mixed Northern Hardwoods	Sawtimber Well	14.1	85	111-140	N/A	Upland mixed deciduous with multiple lowland drains bisecting stand. Good pole size class of red maple is recruiting into the canopy.																																																								
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9	6112 - Lowland Aspen	Sapling Medium	39.1	6	Immature	N/A	Patchy regeneration compared to stand to the south. Regen meets minimum stocking and should continue to fill in as stand progresses																																																								
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10	4130 - Aspen	Poletimber Well	13.5	38	81-110	N/A	Upland aspen stand split from the adjacent lowland hardwood that separates the stand. Large opening in the southern portion looks to be an old landing. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988.																																																								
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11	6113 - Lowland Maple	Poletimber Well	12.6	65	81-110	N/A	Stand consists of mostly lowland maple thicket with a few pockets of mixed deciduous. Overall too wet for commercial harvest. Dense understory brush in areas.																																										
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12	4139 - Aspen, Mixed Deciduous	Poletimber Medium	12.1	21	51-80	N/A	Stand is predominantly upland but gets wetter towards south boarder. Decent stem density in spots but regeneration holes keep the canopy closure under 75%.																																										
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13	4130 - Aspen	Poletimber Well	18.5	38	81-110	N/A	Stand is a mixture of upland and lowland hummocky ground. Areas of low ground are smaller in diameter and heavier to red maple. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988.																																										
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14	3102 - Grass	None	1.5			No	Grassy opening with heavy ORV/Vehicle damage.																																										
15	4139 - Aspen, Mixed Deciduous	Sapling Well	58.3	6	Immature	N/A	Stand has regenerated well with a mix of aspen, maple and oak. Some patchy areas are still filling in. A few residual canopy oak and white pine were left during harvest. 2020 Sale Closure Comments: 2020 Sale Closure Comments: Harvested in the fall of 2019 under contract 73-011-18, Golden Road Harvest. Stand was not chipped. 2018 YOE Comments: Tr of black tupelo and white pine in canopy and subcanopy. Ground cover bracken, and moss/V in low areas. Bigtooth aspen diameter depends on site quality and residual oak density. Oak in this stand is two-aged at 40 and 69.																																										
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16	6112 - Lowland Aspen	Poletimber Well	27.3	51	81-110	N/A	Lowland aspen stand with a vein of higher ground running through the center. Aspen quality and diameter varies with in the stand depending on height of water table and soil fertility. Rutting visible in low areas from previous harvest.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
17	6113 - Lowland Maple	Sawtimber Well	4.3	43	51-80	N/A	Lowland red maple swale between two aspen ridges																																										
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18	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	9.8	21	Immature	N/A	Harvested in September 2005. Stand has patchy regeneration and poor quality bigtooth. Lowland pockets are heavier to swamp white oak.																																										
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19	6239 - Mixed Emergent Wetland	None	8.5			No	Harvested '05 with stand 12. Stand is slowly filling in with maple, swamp white oak and poor quality aspen.																																										
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20	6113 - Lowland Maple	Sawtimber Well	58.4	99	111-140	N/A	Stand has transitioned to lowland maple with the dieback of ash and elm. Small secluded islands of upland ground spread throughout the stand.																																										
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21	6239 - Mixed Emergent Wetland	None	8.5			No	This stand is primarily marsh grass and cattail with scattered swamp hardwood on slight ridges. Approximately 1/3 of the stand is blueberry bog.																																										
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22	6220 - Alder/Willow	None	6.7			No	Harvested sept '05. 70% marsh, rest saplings (5-10% total cover). Also raspberry and lowland shrubs.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
23	4131 - Aspen, Oak	Sapling Medium	21.4	7	Immature	N/A	Stand is regenerating & meets minimum stocking. Areas of less canopy cover are due to browse on oak regeneration. Stand will continue to fill in as regeneration progresses. 2024 Sale Closure: Harvested in 2019 under contract 73-006-18, Bemaltes Wald Mix. Cut 2" and up except for green marked red oak. 2018 YOE Inventory: Total BA 80: RM 35, aspen 30, birch 7, pin oak 5, black tupelo 3. Trace of WO and hem in canopy. Keep Rx. minus species specific retention.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		15	Sapling	1	7			
Blackgum		4	Pole	8	99			
White Oak		2	Log	14	99			
Bigtooth Aspen		54	Sapling	1	7			
Black/Red (Hybrid) Oak		25	Sapling	1				
24	4130 - Aspen	Sapling Well	47.3	7	Immature	N/A	Stand has regenerated well, closer to the 75% canopy closure in areas where oak is being browsed. Stand will continue to fill in as regeneration progresses. 2024 Sale Closure: Harvested in 2019 under contract 73-006-18, Bemaltes Wald Mix. Clear-cut 2" and up except for scattered large crown oak. 2018 YOE Inventory: Decent quality aspen stand. Predominantly upland with several lowland drainages. Standing water in low cradles during wet seasons.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		11	Sapling	1	7			
White Oak		4	Log	15				
Bigtooth Aspen		70	Sapling	1	7			
Black/Red (Hybrid) Oak		15	Sapling	1	7			
25	4131 - Aspen, Oak	Poletimber Well	29.5	44	81-110	N/A	Upland aspen stand with a heavy hardwood component. Oak is mostly smaller log sized stump sprouts.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		20	Pole/Log	9	44			
White Oak		2	Pole	7	44			
Quaking Aspen		15	Pole	8	44			
Black/Red (Hybrid) Oak		20	Log/Pole	10	44			
Bigtooth Aspen		43	Pole	8	44			
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		Low	>20 feet	>20 feet				
Black/Red (Hybrid) Oak		Low	10 - 20 feet	10 - 20 feet				
Serviceberry (Juneberry)		Low	10 - 20 feet	10 - 20 feet				
26	4131 - Aspen, Oak	Poletimber Well	28.0	38	81-110	N/A	Grnd cov bracken. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988. Upland with lowland pockets.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		21	Pole	6	38			
White Oak		6	Pole	6	38			
Paper Birch		7	Pole/Sapling	5	38			
Bigtooth Aspen		32	Pole	7	38			
Black/Red (Hybrid) Oak		24	Pole	7	38			
Quaking Aspen		10	Pole	6	38			
Sub-Canopy Species		Density	Avg. Height	Size				
Serviceberry (Juneberry)		Low	10 - 20 feet	10 - 20 feet				
Black Cherry		Low	10 - 20 feet	10 - 20 feet				
Witch Hazel		Low	10 - 20 feet	10 - 20 feet				
27	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	13.3	21	1-50	N/A	Eastern polygon more solid upland at S end (15-20% of poly), but fairly sparse saps over dense Mi holly in the S 3/4. Overall 30-40% upland. Grnd cov bracken, wintergree, blue birch, lowland sedge, moss, V. Tr of Serviceb, RO (canopy) and W, Haz (sub). Part of sale cut in '05.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		55	Pole/Sapling	5	21			
Paper Birch		2	Sapling	3				
Bigtooth Aspen		20	Pole/Sapling	5				
Black/Red (Hybrid) Oak		21	Pole/Sapling	6	21			
Swamp White Oak		2	Pole/Sapling	5				
Sub-Canopy Species		Density	Avg. Height	Size				
Michigan Holly		Medium	5 - 10 feet	5 - 10 feet				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
28	4199 - Other Mixed Upland Deciduous	Sawtimber Well	6.8	80	81-110	N/A																																													
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31	4131 - Aspen, Oak	Poletimber Well	22.4	38	81-110	N/A	Majority of stand is upland with a few lowland drains bisecting the area. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988.																																												
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34	6113 - Lowland Maple	Poletimber Poor	9.8	37	1-50	N/A	Lowland maple stand with a majority of it being lowland thicket. Swamp white oak is filling in areas.																																													
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35	4199 - Other Mixed Upland Deciduous	Unspecified	13.7	7	Immature		Natural regeneration check conducted in March 2026. Stand does not yet meet minimum stocking standards. Oak regeneration averages 4' tall & heavy browse on maple. Harvested in 2019 under contract 73-006-18, Bemaltes Wald Mix. Clear-cut 2" and up. 4 - 5 acres along the perimeter of the stand were not harvested.																																													
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36	6220 - Alder/Willow	None	1.9			No	Tall willow with trees on edge.																																													
37	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	6.1	38	51-80	N/A	Tr of blue beech, chokech in canopy. Grnd cover sedge, royal fern. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988. Very slow to regen. Has filled in some since last inventory.																																													
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38	6113 - Lowland Maple	Sawtimber Poor	18.9	88	1-50	N/A	2024 Sale Closure: Harvested in 2019 under contract 73-006-18, Bemaltes Wald Mix. Residual BA is approximately 20 sqft comprised of oak and maple marked in groups of 3-5. 2018 YOE Inventory: Red tail hawk sighted in adjacent p.i. st 46: was also seen in 2003. Lowland stand with upland knobs at the north and south ends. 80 110 60																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
39	4139 - Aspen, Mixed Deciduous	Poletimber Well	34.1	38	81-110	N/A	Tr of raspberry in subcan. Grnd cov sensitive fern, royal frn, forbs, tr of iris, rose. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988. Stand is primarily upland tapering to lowland on the edges. Forested drain in the west end is very wet and bisects the stand. South end of stand is upland with scattered low depressions.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	20	Pole	8	38	Witch Hazel	Low		10 - 20 feet	10 - 20 feet
White Oak	3	Pole	7	38	Black/Red (Hybrid) Oak	Low		10 - 20 feet	10 - 20 feet
Paper Birch	6	Pole/Sapling	5	38	Red Maple	Low		10 - 20 feet	10 - 20 feet
Bigtooth Aspen	36	Pole	8	38	Black Cherry	Low		10 - 20 feet	10 - 20 feet
Black/Red (Hybrid) Oak	15	Pole	9	38					
Quaking Aspen	20	Pole	7	38					
40	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	32.2	99	111-140	N/A	Stand is a mix of slightly elevated upland knobs separated by forested drains and swales. Stand has some what un-enengaged look but the presence of aspen and a fairly uniform canopy age suggests evenaged structure.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	52	Log/XLog	16	99	Michigan Holly	Low		5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	15	Log/XLog	17	99	Swamp White Oak	Low		>20 feet	>20 feet
Swamp White Oak	25	Log/XLog/Pole	17	99	Tag Alder	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	8	Log	14	99	Red Maple	Medium	>20 feet	>20 feet	
41	6113 - Lowland Maple	Sawtimber Well	91.0	117	111-140	N/A	The stand has an intermittent creek running through it with no well defined banks. The trees are shallow rooted and there are many wind thrown trees in the stand. There are pockets of hemlock along the edges of the stand as well as L-Types toward the center along the intermittent creek. The stand has lots of standing water in it. The ground cover is heavy to sensitive fern and cinnamon fern, also present is blue flag and marsh marigold. In the stand on some of the nurse log there are hemlocks regenerating.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	60	Log/XLog/Pole	14	117	Red Maple	Medium		>20 feet	>20 feet
Red Oak	15	Log	17	117	Hemlock	Low		>20 feet	>20 feet
Yellow Birch	5	Log/Pole	11		Musclewood/Hornbeam	Low		10 - 20 feet	10 - 20 feet
Quaking Aspen	5	XLog/Log	18		Swamp White Oak	Low		>20 feet	>20 feet
Swamp White Oak	8	Log/Pole	14	117					
Hemlock	7	Log	13						
42	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	26.9	87	81-110	N/A	Lowland deciduous stand that is converting over to maple now that the ash is gone. There are areas of dense thicket. Maple poles are continuing to fill in the stand. Sheet flow throughout the whole stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	54	Pole/Sap/Log	8	87	Michigan Holly	Medium		5 - 10 feet	5 - 10 feet
Paper Birch	2	Pole/Log	9		Swamp White Oak	Low		>20 feet	>20 feet
Northern Pin Oak	4	Pole/Sap/Log	8		Black/Red (Hybrid) Oak	Low		10 - 20 feet	10 - 20 feet
Swamp White Oak	40	Pole/Log/Sap	9		Tag Alder	Low	10 - 20 feet	10 - 20 feet	
					Red Maple	Low	>20 feet	>20 feet	
43	4199 - Other Mixed Upland Deciduous	Poletimber Well	20.7	38	81-110	N/A	Stand follows a narrow ridge. Lowland pockets and edges contain more maple poles. The center of the ridge is heavier to larger pole sized oak and aspen. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	30	Pole	6		Red Maple	Low		10 - 20 feet	10 - 20 feet
Bigtooth Aspen	30	Pole	6		Witch Hazel	Medium		10 - 20 feet	10 - 20 feet
Black/Red (Hybrid) Oak	40	Pole/Log	8	38	Black/Red (Hybrid) Oak	Low	10 - 20 feet	10 - 20 feet	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
44	3103 - Rubus-Fern	None	4.9			No	Upland pocket that did not regenerate well. Open grown oak and aspen. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988. Shallow forested drain bisects the stand.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Red Maple	Low	>20 feet	>20 feet					
								Black/Red (Hybrid) Oak	Medium	>20 feet	>20 feet					
45	6223 - Inundated Shrub Swamp	None	8.5			No	Marsh with areas of lowland thicket.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet					
								Willow spp.	Medium	5 - 10 feet	5 - 10 feet					
46	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	14.3	38	81-110	N/A	Grnd cov royal fern and bracken, "goldenrod". Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988. Portion of stand didn't regen well because of prolonged high water table. Stand is slowly filling in however.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	35	Pole	6	38	Willow spp.	Low	5 - 10 feet	5 - 10 feet
								Quaking Aspen	14	Pole/Sapling	5	38	Black/Red (Hybrid) Oak	Low	10 - 20 feet	10 - 20 feet
								Black/Red (Hybrid) Oak	35	Pole	7	38	Tag Alder	Low	5 - 10 feet	5 - 10 feet
								Swamp White Oak	6	Pole	6	38	Witch Hazel	Low	5 - 10 feet	5 - 10 feet
								Paper Birch	10	Pole	5		Paper Birch	Low	>20 feet	>20 feet
													Michigan Holly	Medium	5 - 10 feet	5 - 10 feet
47	6229 - Mixed Lowland Shrub	None	36.9			No	Tr of B, elm (can), serviceb (sub). Grnd cover sedge, forbs. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Michigan Holly	Medium	< 5 feet	< 5 feet					
								Red Maple	Low	>20 feet	>20 feet					
								Honeysuckle (spp.)	Medium	< 5 feet	< 5 feet					
								Swamp White Oak	Low	>20 feet	>20 feet					
								Black/Red (Hybrid) Oak	Low	>20 feet	>20 feet					
Tag Alder	Low	5 - 10 feet	5 - 10 feet													
48	4139 - Aspen, Mixed Deciduous	Poletimber Well	16.9	38	81-110	N/A	General: Black tupelo is a small component of many stands in the E and S central part of compartment. Center and E-central portion sparser, wetter with heavy forbs. Tr of black tupelo, chk cherry in can, hazel in sub. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	30	Pole	7	38	Michigan Holly	Low	< 5 feet	< 5 feet
								White Oak	2	Pole	7	38	Black/Red (Hybrid) Oak	Low	< 5 feet	< 5 feet
								Paper Birch	12	Pole/Sapling	5	38	Tag Alder	Low	10 - 20 feet	10 - 20 feet
								Bigtooth Aspen	30	Pole	8	38	Red Maple	Medium	10 - 20 feet	10 - 20 feet
								Black/Red (Hybrid) Oak	16	Pole	7	38				
								Quaking Aspen	10	Pole	7	38				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
49	6113 - Lowland Maple	Poletimber Well	36.3	21	81-110	N/A	Harvested in 2005 under contract # 73-003-03-01 321 Olson. Unit 6 reduced the BA to 60 s.f. on average, very little regen (what regen there is has been browsed by deer). Variable stocking of oak seedlings seem to be releasing; a percentage are now between one and two feet tall. Harvest released Michigan holly in low areas. North 1/4 wet with swamp grass, south 1/4 nearly upland with bracken. Forested drain in the center of the stand is in operable. Medium stocking of poles in the canopy and sub-canopy.																																											
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50	4199 - Other Mixed Upland Deciduous	Poletimber Medium	6.6	38	51-80	N/A	Tr of swmp white oak in subcan. Grnd cov bracken (60-70%) and V. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988.																																											
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51	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	44.4	48	81-110	N/A	Lowland hardwood stand with pockets of upland knobs & fingers. The west end is much wetter and has a lowland thicket component. The stand is too wet for commercial harvest.																																											
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52	622 - Lowland Shrub	None	1.1			No																																												
53	4131 - Aspen, Oak	Sapling Medium	15.6	21	Immature	N/A	Variable density mixed harwood stand following an open road. Signs of significant browse. Harvested in 2005 under contract # 73-003-03-01 321 Olson. Unit 7 2" clearcut with den trees marked to leave.																																											
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54	6239 - Mixed Emergent Wetland	None	12.4			No	Tall swamp grass and iris and cattails with scatered TA and willow.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
55	4199 - Other Mixed Upland Deciduous	Sawtimber Poor	42.5	91	1-50	N/A	Natural regen survey conducted in March of 2026. Stand does not meet minimum stocking standards at this time & will need more time to regenerate. Areas look to be swamped out & browsed heavily. Shelter-wood harvested under contract 73-010-18, Culvert City Harvest, during the summer of 2019. Residual equals 42 Ba/acre		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		55	Log/XLog/Pole	17	91				
Paper Birch		4	Pole/Log	9	91				
Black/Red (Hybrid) Oak		30	Log/Pole/XLog	15	91				
Black Cherry		2	Pole	8	91				
Swamp White Oak		9	Log/XLog/Pole	16	91				
56	6113 - Lowland Maple	Sawtimber Well	48.7	96	51-80	N/A	Forested drain flows through this stand. In narrow spots a defined bed and bank becomes established.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		63	XLog/Log	18	96	Swamp White Oak	Low	>20 feet	>20 feet
Black/Red (Hybrid) Oak		4	Log/XLog	17	96	Red Maple	Medium	>20 feet	>20 feet
Swamp White Oak		33	Log	14	96	Tag Alder	Medium	5 - 10 feet	5 - 10 feet
57	4199 - Other Mixed Upland Deciduous	Sawtimber Well	23.2	96	81-110	N/A	Mixed upland stand bisected by a lowland maple swale. Good stocking of log sized hardwood with red maple recruiting in understory.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		37	Log/Pole	15	96	Red Maple	Medium	>20 feet	>20 feet
White Oak		2	Log	14		Musclewood/Hornbeam	Low	10 - 20 feet	10 - 20 feet
Paper Birch		3	Pole/Log	9					
Quaking Aspen		25	Log	14					
Black/Red (Hybrid) Oak		33	Log/XLog/Pole	16					
58	6220 - Alder/Willow	None	2.1			No	Mature TA, willow over tall swamp grass. Scattered maple and ash.		
Sub-Canopy Species		Density	Avg. Height	Size					
Tag Alder		High	5 - 10 feet	5 - 10 feet					
Willow spp.		Medium	5 - 10 feet	5 - 10 feet					
59	6113 - Lowland Maple	Sawtimber Well	11.7	96	81-110	N/A	Lowland hardwood stand that has transitioned to red maple. There is an isolated portion of the stand along Carrol Creek, east of the private parcel.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		75	Log/Pole	13	96	Black/Red (Hybrid) Oak	Low	>20 feet	>20 feet
Swamp White Oak		10	Log	16		Red Maple	Medium	>20 feet	>20 feet
Black/Red (Hybrid) Oak		10	Log	16					
Bigtooth Aspen		5	Log	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
60	4131 - Aspen, Oak	Poletimber Medium	32.6	38	81-110	N/A	Variable stocking throughout the stand. Upland portions carry more of the aspen and oak, lowland portions are comprised of maple, birch and oak. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		2	Sapling/Pole	4		Swamp White Oak		
Bigtooth Aspen		45	Pole	7	38	Red Maple		
Black/Red (Hybrid) Oak		25	Pole	8		Dogwood (spp.)		
Swamp White Oak		3	Pole	7				
Quaking Aspen		10	Pole	7				
Red Maple		15	Pole	9				
61	6229 - Mixed Lowland Shrub	None	1.5			No		
62	622 - Lowland Shrub	None	3.2			No	Stand has transitioned to a lowland thicket. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988.	
Sub-Canopy Species		Density	Avg. Height	Size				
Tag Alder		Low	5 - 10 feet	5 - 10 feet				
Swamp White Oak		Low	5 - 10 feet	5 - 10 feet				
Red Maple		Low	>20 feet	>20 feet				
63	6222 - Shrub-Carr	None	2.5			No	Stand has transitioned to a lowland thicket. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988.	
Sub-Canopy Species		Density	Avg. Height	Size				
Michigan Holly		Full	5 - 10 feet	5 - 10 feet				
Swamp White Oak		Low	5 - 10 feet	5 - 10 feet				
Paper Birch		Low	10 - 20 feet	10 - 20 feet				
64	6114 - Lowland Oak	Sapling Poor	8.1	38	1-50	N/A	Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		15	Sapling	2	38	Dogwood (spp.)		
Paper Birch		10	Pole/Sapling	5	38	Tag Alder		
Quaking Aspen		10	Sapling	3	38	Honeysuckle (spp.)		
Black/Red (Hybrid) Oak		25	Sapling	3	38	Willow spp.		
Choke Cherry		5	Sapling	2	38	Michigan Holly		
Swamp White Oak		35	Sapling	3	38			
65	4125 - Black, N. Pin Oak	Poletimber Medium	26.1	38	51-80	N/A	Pockets of L-type , high ridge along road and to W and NW. Tr of hazel and rose in subcan. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		10	Pole	5	38	Willow spp.		
Bigtooth Aspen		20	Pole	6	38	Dogwood (spp.)		
Black/Red (Hybrid) Oak		45	Pole	8	38	Tag Alder		
Black Cherry		10	Pole	6	38	Blackberry/Raspberry		
Swamp White Oak		15	Pole	7	38	Northern Pin Oak		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
66	6112 - Lowland Aspen	Poletimber Well	3.8	44	81-110	N/A	Aspen pocket on a slight ridge bordered by low ground. Old beaver activity present. Soil is mainly Covert Sand																																					
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67	330 - Low-Density Trees	None	2.9			No	Open grown hardwoods that did not regenerate well after harvest. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988.																																					
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68	6113 - Lowland Maple	Sawtimber Well	8.8	75	81-110	N/A	This stand is low and wet and was not cut when stand 18 was harvested. The stand is a mix of swamp white oak, red oak, red maple, and Ash. The main soil is Kingsville.																																					
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69	4125 - Black, N. Pin Oak	Poletimber Well	5.2	33	51-80	N/A	This stand is an oak pocket that has regenerated fairly well and is mainly n. pin oak. The stand is against Carrol Creek and the soil under the stand is Pipestone Sand. Harvested under Carroll Creek Grouse.																																					
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70	6220 - Alder/Willow	None	11.3			No	15% ash/SWO at NE edge: very wet area associated with drain. Sedges, rushes, dogwood, white ppine, TA.																																					
71	4125 - Black, N. Pin Oak	Poletimber Well	6.1	54	81-110	N/A	The stand is a mix of knolls, ridges, swales and draws. The stand goes from O6 to E6 with some of the oak is reaching close to sawlog size. The stand is a fairly even mix of oak and maple.																																					
72	4130 - Aspen	Poletimber Medium	32.3	33	51-80	N/A	The soils under the stand are mainly Pipestone Sand in the west end and Covert sand in the east end. Part of sale # 73-045-89-01 Carroll Creek Access harvested Feb. of '93. West end is more dense than east. Overall medium density stand of aspen with no understory. Bracken fern ground cover. Knoll/cradle topography.																																					
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73	4125 - Black, N. Pin Oak	Poletimber Poor	3.2	34	51-80	N/A	Dry upland ridge which was part of Lewis Road Block harvested in '92. Stand is filling in with oak.																																					
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74	330 - Low-Density Trees	None	9.5			No	Part of sale # 73-054-90-01 Lewis Road clearcut which did not regenerate to minimum stocking levels.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Bigtooth Aspen	Medium	>20 feet	>20 feet	
								Red Maple	Low	>20 feet	>20 feet	
								Northern Pin Oak	Low	>20 feet	>20 feet	
75	6222 - Shrub-Carr	None	26.9			No	Carroll Creek Drain flood plain. Open areas of marsh grass mixed with clumps of lowland brush.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Michigan Holly	Low	5 - 10 feet	5 - 10 feet	
								Tag Alder	Medium	5 - 10 feet	5 - 10 feet	
								Red Osier Dogwood	Medium	5 - 10 feet	5 - 10 feet	
76	4119 - Mixed Northern Hardwoods	Sawtimber Well	3.6	75	111-140	N/A	Stand sits on an upland knob. Aspen is starting to fall out of the stand. Medium stocking of oak and maple in the understory. Recommend to hold stand & harvest once adjacent ridge to the south is ready for commercial harvest.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Paper Birch	5	Pole/Log	8	
								Bigtooth Aspen	15	Log	12	
								Black/Red (Hybrid) Oak	20	Log	13	
								Red Maple	60	Log/Pole	10	75
Sub-Canopy Species	Density	Avg. Height	Size									
Black/Red (Hybrid) Oak	Low	>20 feet	>20 feet									
Red Maple	Medium	>20 feet	>20 feet									
Swamp White Oak	Low	10 - 20 feet	10 - 20 feet									
77	6112 - Lowland Aspen	Poletimber Well	41.6	42	111-140	N/A	Stand is predominantly lowland with scattered upland knobs. Quality of aspen and oak is better in the southern end. Stand gets wetter and quality decreases towards the north. Some of the low areas of the stand are dominated by lowland brush. Some of these pockets are too wet to cut as well. Minor rutting visible from previous harvest.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern Pin Oak	10	Pole	8	42
								Red Maple	20	Pole	8	42
								Paper Birch	15	Pole/Sapling	6	42
								Bigtooth Aspen	5	Pole	7	42
Quaking Aspen	50	Pole	7	42								
Sub-Canopy Species	Density	Avg. Height	Size									
Swamp White Oak	Low	5 - 10 feet	5 - 10 feet									
Paper Birch	Low	10 - 20 feet	10 - 20 feet									
Red Maple	High	10 - 20 feet	10 - 20 feet									
Black/Red (Hybrid) Oak	Low	10 - 20 feet	10 - 20 feet									
Michigan Holly	Medium	5 - 10 feet	5 - 10 feet									
78	6112 - Lowland Aspen	Poletimber Medium	12.3	38	51-80	N/A	Lowland aspen stand with a higher concentration of swamp white oak along the northern boundary. Overall the stand is too wet for harvest. Standing water throughout.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Paper Birch	2	Pole	6	
								Quaking Aspen	60	Log/Pole	10	38
								Black/Red (Hybrid) Oak	15	Log/Pole	11	
								Swamp White Oak	23	Pole	7	
Sub-Canopy Species	Density	Avg. Height	Size									
Tag Alder	Low	5 - 10 feet	5 - 10 feet									
Red Maple	Low	10 - 20 feet	10 - 20 feet									
Dogwood (spp.)	Low	5 - 10 feet	5 - 10 feet									
79	6113 - Lowland Maple	Sawtimber Well	29.5	105	111-140	N/A	Drainage runs through stand into Carroll Creek parts of which appear to be man made. Red maple ages vary significantly.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	70	Log/XLog/Pole	14	105
								Swamp White Oak	15	Log/XLog	16	105
								Black/Red (Hybrid) Oak	10	Log/XLog	16	
								Paper Birch	5	Log/Pole	10	
Sub-Canopy Species	Density	Avg. Height	Size									
Buttonbush	Low	5 - 10 feet	5 - 10 feet									
Michigan Holly	Low	5 - 10 feet	5 - 10 feet									
Musclewood/Hornbeam	Low	5 - 10 feet	5 - 10 feet									
Swamp White Oak	Low	10 - 20 feet	10 - 20 feet									
Red Maple	Medium	>20 feet	>20 feet									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
80	4130 - Aspen	Poletimber Well	32.5	44	81-110	N/A	Fairly good stand with oak and red maple in understory, a little wetter and hummocky in places, but vast majority is upland. The southeast has less canopy cover & more open grown characteristics. 3 sales cut within 5 years of each other, 1978-1983. "Leaky Radiator Sale" harvested in 1982. Cut all aspen, birch, maple, ash, & oak that yielded a 100" pulp stick. Left all oak 12" and larger.																																																			
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81	6113 - Lowland Maple	Sawtimber Well	10.6	43	81-110	N/A	Lowland portion of sale # 73-102-80-01, Waterwing Sale. Minimum piece utilization of red oak, white oak, red pine, paper birch, red maple, black cherry, aspen, and ash, harvested in 1983. Scattered pockets and individual large diameter trees left from '83 harvest. Standing water throughout with marsh grass present in pockets. Stand is too wet for harvest.																																																			
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82	4130 - Aspen	Poletimber Medium	20.6	33	Immature	N/A	Stand is a sparse aspen pole stand. Knoll/cradle topography throughout with areas of low ground scattered. Historic fire charred pine stumps indicate this area burned fairly hot reducing the soil productivity. Harvested February of 1993 under contract number 73-007-88-01 Carroll Creek Grouse.																																																			
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83	6233 - Wet Meadow	None	6.6			No	Pure wet meadow with drain through middle, tall wet meadow grass.																																																			
84	6239 - Mixed Emergent Wetland	None	14.6			No	Marsh with areas of floating aquatic, and willow/dogwood on edges.																																																			
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85	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	5.7	38	51-80	N/A	Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988. Most of the stand is a dense lowland thicket.																																																			
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86	6222 - Shrub-Carr	None	21.6			No	This stand is a long depression between ridges and is a mix of leather leaf, blueberry, michigan holly and tag alder.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Michigan Holly	High	5 - 10 feet	5 - 10 feet	
								Tag Alder	Medium	5 - 10 feet	5 - 10 feet	
								Blueberry/Bilberry/Cranberry	High	5 - 10 feet	5 - 10 feet	
87	6113 - Lowland Maple	Sawtimber Medium	10.4	104	51-80	N/A	Broken out of stand to the NE, much wetter with swamp grass and sensitive fern.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	2	Log	14	104
								Red Maple	63	Log/XLog	16	104
								Swamp White Oak	35	Log	15	104
Sub-Canopy Species	Density	Avg. Height	Size									
Swamp White Oak	Low	5 - 10 feet	5 - 10 feet									
Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet									
88	6114 - Lowland Oak	Sawtimber Medium	17.0	104	81-110	N/A	Much of stand is operable, wet area broken out. Harvest dry/frozen, dormant NON-NEGOTIABLE. Aspen and ash removal (ash pre-salvage). Mark additional trees with orange paint for operability. Private line posted 300 ft N of line on state. 08/14/2017: Harvested under contract number 73-006-11-01, Deer Refuge Oak in July of 2016.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black/Red (Hybrid) Oak	25	Log/XLog/Pole	16	104
								Red Maple	35	Log/Pole/XLog	12	104
								Swamp White Oak	40	Log/XLog	16	104
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Low	10 - 20 feet	10 - 20 feet									
Musclewood/Hornbeam	Trace	10 - 20 feet	10 - 20 feet									
Red Maple	Low	< 5 feet	< 5 feet									
Quaking Aspen	Low	< 5 feet	< 5 feet									
89	4131 - Aspen, Oak	Poletimber Well	8.7	33	51-80	N/A	Dry aspen/oak ridge and adjacent oak/ash aspen lowland. Bermed 500 ft west of stand: holding. Clearcut in 1993. TS# 33-91. Ground cov bracken on ridge, swamp grass in lowland.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	10	Pole	6	33
								Black Cherry	3	Sapling/Pole	4	33
								Bigtooth Aspen	32	Pole	6	33
								Red Maple	10	Pole/Sapling	7	33
								Black/Red (Hybrid) Oak	35	Pole	6	33
Swamp White Oak	10	Pole/Sapling	5									
90	4130 - Aspen	Sapling Medium	62.8	5	Immature	N/A	2021 Sale Closure: Clear-cut 2" and up under contract 73-010-18, Culvert City Harvest, during the summer of 2019. 2018 YOE Comments: The stand is regenerating fairly well with some variability in the cover-types. There are areas of wetter soils and in these areas the stand is more of an E6. There are also some droughty ridges and these are more of and O6, but overall the stand is an A6. Soil is mainly Covert Sand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	65	Sapling	1	5
								Black/Red (Hybrid) Oak	15	Sapling	1	
91	4139 - Aspen, Mixed Deciduous	Poletimber Well	6.9	48	81-110	N/A	Stand is mostly upland ground with a drain running E/W along the northern boundary.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	50	Log/Pole	10	48
								Quaking Aspen	40	Pole	8	48



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
92	6113 - Lowland Maple	Sawtimber Medium	26.9	87	51-80	N/A	The stand is low and very wet and is mainly made up of black ash with some red maple. The red maple is mainly along the edges of the stand and in the south end of the stand. The ash is dead standing. The soil is Belleville loamy sand.																																											
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93	4131 - Aspen, Oak	Poletimber Well	47.3	37	81-110	N/A	Moderately stocked aspen stand with an oak component. The northern portion contains wetter ground. Heavy beaver activity in the narrow finger that runs east / west. Harvested February of 1989 under contract number 73-007-88-01 Carroll Creek Grouse.																																											
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94	6113 - Lowland Maple	Poletimber Well	18.5	67	81-110	N/A	Lowland stand with wettest ground in the center. Most of the oak is located in the northern end of stand.																																											
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95	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	44.7	87	81-110	N/A	This stand is variable with dryer ridges, areas of standing water and forested drains. Only harvestable ground is in the western portion. This portion was not harvested during Donut Trail Sale because it is separated by a very wet forested drain. Heavy ash mortality throughout. Recommend to treat upland areas once aspen stand to the south is ready for commercial harvest.																																											
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96	4131 - Aspen, Oak	Poletimber Well	19.3	28	81-110	N/A	The stand is on a high ridge around a bog with an area of lower ground to the east that is dry. Part of sale number 73-015-97-01 Donut Trail Sale. Minimum piece utilization harvested late summer 1998.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
97	6225 - Bog	None	53.5			No	This stand is an L-Type that consist of mainly blueberry and leather leaf with some tag alder. There are also inclusion of N-Type and some widely scattered trees.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Medium	5 - 10 feet	5 - 10 feet	
								Michigan Holly	Low	5 - 10 feet	5 - 10 feet	
Blueberry/Bilberry/Cranberry	High	5 - 10 feet	5 - 10 feet									
98	6113 - Lowland Maple	Sawtimber Poor	29.4	70	51-80	N/A	Harvested in the summer of 2020 under contract 73-011-18, Golden Road Harvest. Stand was not chipped. Harvest was limited to the upland portions of the stand. Residual varies from patch clear-cut (none) to 60 square feet per acre.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	90	Log/XLog	16	70
								Black/Red (Hybrid) Oak	5	XLog/Log	18	
Swamp White Oak	5	Log/XLog	15									
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Low	< 5 feet	< 5 feet									
99	6239 - Mixed Emergent Wetland	None	2.2			No	This stand was originally formed by a trespass from the private owner to the south who was haying this area. The owner appears to not be haying it now for there is high herb and brush (blackberry) and some trees are filling in. The stand is along Carrol Creek.					
100	412 - Oak Types	Poletimber Medium	4.9	47	51-80	N/A	This stand is an Island of Pipestone soil in stand 53 that is right off McGrudder Road ROW. The stand is regenerating well and is mainly oak with pockets of aspen and pine.					
101	6113 - Lowland Maple	Sawtimber Well	1.2	66	81-110	N/A	This stand was exlcuded from the adjacent seed tree harvest due to a drainage splitting the stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	5	Log/Pole	12	66
								Paper Birch	5	Pole/Log	8	66
								Black/Red (Hybrid) Oak	25	Log/Pole	12	66
Red Maple	65	Log	15	66								
102	4125 - Black, N. Pin Oak	Sawtimber Medium	90.9	66	81-110	N/A	The featured stand is comprised of oak sawlogs and oak poles. The oak poles when bored are showing sign of response to being released. The oak in the upper log classes and XL class, which are older and less prevalent, are showing signs of decline. The featured stand is the residual left by the harvest in 1998. Part of sale number 73-015-97-01 Donut Trail Sale. Minimum piece utilization except did not cut oak.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	5	Pole	7	28
								Bigtooth Aspen	10	Pole	7	28
								White Oak	3	Log/XLog	16	
								Paper Birch	2	Pole/Sapling	5	
Black/Red (Hybrid) Oak	80	Pole/Log	9	66								
Sub-Canopy Species	Density	Avg. Height	Size									
Witch Hazel	Low	5 - 10 feet	5 - 10 feet									
Red Maple	Medium	10 - 20 feet	10 - 20 feet									
Bigtooth Aspen	Low	10 - 20 feet	10 - 20 feet									
Black/Red (Hybrid) Oak	Medium	10 - 20 feet	10 - 20 feet									
103	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	22.1	57	81-110	N/A	Lowland hardwood stand with a minor component of swamp white oak in the lowlands. The narrow ridges are dominated by large pole sized oak.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black/Red (Hybrid) Oak	35	Log/Pole	10	
								Swamp White Oak	10	Pole/Log	9	
								Paper Birch	10	Pole/Sapling	6	
								Red Maple	40	Log/Pole	12	57
Bigtooth Aspen	5	Pole	8									
Sub-Canopy Species	Density	Avg. Height	Size									
Michigan Holly	High	5 - 10 feet	5 - 10 feet									
Black/Red (Hybrid) Oak	Low	10 - 20 feet	10 - 20 feet									
Red Maple	Medium	>20 feet	>20 feet									
Tag Alder	Medium	5 - 10 feet	5 - 10 feet									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
110	622 - Lowland Shrub	None	1.2			No	Lowland swale. Mostly swamp grass.																																																		
111	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	44.5	99	1-50	N/A	Natural regeneration is struggling due to water table and browse. Upland portions have oak regeneration averaging about 5' tall. Lowland portions are sparse, with regeneration under 2' tall in March 2026. 2024 Sale Closure: Harvested in 2019 under contract 73-006-18, Bemaltes Wald Mix. Cut 2" and up except for large canopy red maple and oak marked in groups of 3 - 5.																																																		
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112	6220 - Alder/Willow	None	9.6			No	Lowland thicket, mostly alder, dogwood and Michigan holly. Scattered hardwoods in pockets.																																																		
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113	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	20.6	54	81-110	N/A	East end and southern edge sit on a sand ridge. The rest of stand is lowland. Heavy ash mortality reducing canopy closure to under 75%. Inclusion of older non-harvestable E-type in the west end, under 5 acres. Intermittent stream along east boundary. Forested drain flows through the center of the stand.																																																		
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114	4130 - Aspen	Sapling Well	8.5	5	Immature	N/A	Stand has regenerated very well to aspen with a minor component of mixed hardwoods. 2021 Sale Closure: Clear-cut 2" and up harvested under contract 73-010-18, Culvert City Harvest, in the fall of 2020. Golden Road Project did not proceed through this stand.																																																		
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116	622 - Lowland Shrub	None	14.5			No	The stand is mainly an L-Type of red osier dogwood and tag alder. At one time the stand was flooded by beavers but the dam went out approximately 10 years ago and now it has been filled in with brush. Stand contains a Carroll Creek Crossing which was done under permit # 89-08-0015 which was used to haul wood for Carroll Creek Access and Carroll Creek Grouse.																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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117 6113 - Lowland Maple Sawtimber Well 114.7 105 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	65	Log/XLog	17	105	Red Maple	Medium	Variable	Variable
White Oak	10	Log/XLog	17	105	Swamp White Oak	Medium	5 - 10 feet	5 - 10 feet
Paper Birch	2	Log	12		Michigan Holly	Low	5 - 10 feet	5 - 10 feet
Cottonwood	2	XLog	25					
Bigtooth Aspen	5	Log	16					
Black/Red (Hybrid) Oak	6	Log	16	105				
Swamp White Oak	10	Log	14					

Southwesternmost 10 ac and 15 ac at northeast edge are drier and operable: manage these areas on selection system in future. Northwester 25 ac is E5/L. '98 comments: Most of the aspen is gone now, fully converted to E. Very wet. Drainages into Carroll Creek. Aspen and oak located on edges and ridges of the stand. Sheet flow present throughout stand at time of inventory.

118 4139 - Aspen, Mixed Deciduous Sapling Medium 68.8 3 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	1	
Black/Red (Hybrid) Oak	5	Sapling	1	
Quaking Aspen	20	Sapling	1	3
Bigtooth Aspen	25	Sapling	1	3
Paper Birch	5	Sapling	1	
White Pine	10	Pole/Log	8	
Black/Red (Hybrid) Oak	10	Log	14	
Black Cherry	5	Sapling	1	

Natural regeneration check conducted in December of 2025. Data shows 700 TPA, 500 TPA of aspen with the other 200 TPA a mix of hardwoods. Stand is coming in patchy, but should continue to fill in as it progresses. 2023 Sale Closure: Harvested during September of 2023 under contract Carroll Creek Aspen. Clear-cut 2" and up. Left oak and pine. New powerline easement along Coleman Road in 2023. 2018 YOE Inventory: Sale number 99-80A Oil Slick Sale #1, minimum piece utilization of red oak, white oak, paper birch, red maple, black cherry, aspen, and ash. Primary species removed was aspen pulp and saw-logs. Old pine stumps present. Primarily upland with occasional low pockets concentrated towards the drain to the east. Red maple is a mix of 34 yr. old stems and older stems which were un-merchantable during last harvest. Scattered pole/log white pine throughout as well.

119 6119 - Mixed Lowland Deciduous Forest Poletimber Medium 22.1 41 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Swamp White Oak	30	Pole/Sapling	6	41	Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen	25	Pole	7	41	Michigan Holly	Medium	5 - 10 feet	5 - 10 feet
Red Maple	35	Pole/Sapling	6	41	Willow spp.	High	10 - 20 feet	10 - 20 feet
Black/Red (Hybrid) Oak	10	Pole/Sapling	5					

Very dense tag alder and willow 10 ft tall giving the stand the appearance of full stocking. Actual stocking of trees species under 75%. Heavy lowland brush throughout. Sale number 73-032-84-01 Baby Coon Sale, removed all species 4" and up. Forested drain flows through the north portion of the stand. Primarily lowland with a couple upland ridges. Stand nearly swamped out after harvest. Areas of marsh grass and lowland brush only.

120 4131 - Aspen, Oak Poletimber Poor 13.8 42 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	35	Pole	8	42	Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
Paper Birch	10	Pole	7	42	Michigan Holly	Low	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	25	Log/Pole	12					
Red Maple	15	Log/Pole	11					
Quaking Aspen	15	Pole	8					

Site did not regenerate well. Stand is the eastern 14 ac of '83 habitat cut (W73-188). Knoll/cradle topography with numerous bare charred pine stumps.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
121	6220 - Alder/Willow	None	41.8			No	OPIC - FMD: Floating aquatic in portions of N end. Large snags scattered through stand mostly ash. N in places, especially narrow N-S channel connecting N and S portions. Dry along trail through N end. Patch of phragmites in the SW corner.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low	5 - 10 feet	5 - 10 feet	
								Red Osier Dogwood	Medium	5 - 10 feet	5 - 10 feet	
								Tag Alder	High	5 - 10 feet	5 - 10 feet	
Willow spp.	Medium	5 - 10 feet	5 - 10 feet									
Swamp White Oak	Low	5 - 10 feet	5 - 10 feet									
122	6112 - Lowland Aspen	Sapling Medium	66.6	6	Immature	N/A	Harvested in the summer of 2020 under contract 73-011-18, Golden Road Harvest. Stand was not chipped. Stand is regenerating well. Edges have less regeneration due to browse, but stand will continue to fill in as it progresses.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	50	Sapling	1	6
								Bigtooth Aspen	20	Sapling	1	
								Black/Red (Hybrid) Oak	10	Sapling	1	
								Red Maple	15	Sapling	1	
Black Cherry	5	Sapling	1									
123	6112 - Lowland Aspen	Poletimber Well	3.8	54	81-110	N/A	Low depression tapering to higher ground on the north and south sides. to rest and drain runs through the center of the stand flowing water to the east. Good ash regeneration most still healthy.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black/Red (Hybrid) Oak	15	Log/Pole	12	
								Paper Birch	5	Pole	6	54
								Red Maple	25	Pole	7	54
								Bigtooth Aspen	15	Pole	7	54
Quaking Aspen	40	Pole/Log	9	54								
Sub-Canopy Species	Density	Avg. Height	Size									
Michigan Holly	Low	5 - 10 feet	5 - 10 feet									
Musclewood/Hornbeam	Low	10 - 20 feet	10 - 20 feet									
Red Maple	Medium	10 - 20 feet	10 - 20 feet									
124	6220 - Alder/Willow	None	9.7			No	Stand switched from forested to non-forested because of ash die off. Lowland thicket with areas of maple and swamp white oak.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Willow spp.	High	5 - 10 feet	5 - 10 feet	
								Red Osier Dogwood	Medium	5 - 10 feet	5 - 10 feet	
								Red Maple	Medium	10 - 20 feet	10 - 20 feet	
								Swamp White Oak	Low	10 - 20 feet	10 - 20 feet	
Tag Alder	High	5 - 10 feet	5 - 10 feet									
125	4139 - Aspen, Mixed Deciduous	Sapling Medium	50.0	6	Immature	N/A	2020 Sale Closure Comments: Harvested in the summer of 2020 under contract 73-011-18, Golden Road Harvest. Stand was not chipped. 2018 YOE Comments: Overall stand is upland, wettest area located in the SW, approximately 25% low ground. Driest area is in the north central portion, this area has low stocking. Scattered residual white oak. Poorer quality trembling aspen toward north end.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	2	Sapling	1	
								Bigtooth Aspen	52	Sapling	1	6
								Red Maple	33	Sapling	1	
								Black/Red (Hybrid) Oak	10	Sapling	1	
White Oak	3	Log	16									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
126	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	41.5	70	81-110	N/A	2020 Sale Closure Comments: Harvested in the summer of 2020 under contract 73-011-18, Golden Road Harvest. Stand was not chipped. 29.5 of the stands 71 acres were shelter-wood harvested. Harvest was limited to the upland portions of the stand. Residual varies from patch clear-cut (none) to 60 square feet per acre. 2018 YOE Comments: Lowland stand with upland knobs and ridges. Driest to the west and slowly grades down towards the east. Primary age is 60 with older and younger stems present in the canopy. Sub-canopy is dominated by sapling/pole single stem red maple. Significant portion of dead ash not reflected in BA measurements.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		10	Log	15	70	Michigan Holly		Medium	5 - 10 feet	5 - 10 feet
Red Maple		55	Log/XLog	16	70	Red Maple		Medium	Variable	Variable
Black/Red (Hybrid) Oak		5	XLog/Log	18						
Swamp White Oak		20	Log/XLog	15						
Quaking Aspen		5	Log	15	70					
Paper Birch		5	Pole/Log	9						
127	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	8.1	35	51-80	N/A	Upland grass opening located in the SW corner which currently has some natural pine filling in. The rest of the stand is lower with standing water in the cradles. Stand is continuing to fill in, swamp white oak is concentrated in the south with the aspen component in the northern portion of the stand. Part of sale number 73-044-90-01 Coleman Road East, 2" clearcut, harvested fall of 1991, left all red pine.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		30	Pole/Sapling	6	35	Black/Red (Hybrid) Oak		Low	< 5 feet	< 5 feet
Red Maple		39	Pole	6	35	Michigan Holly		Medium	5 - 10 feet	5 - 10 feet
Black Cherry		1	Sapling/Pole	4	35	Nannyberry		Low	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak		10	Sapling/Pole	4	35	Tag Alder		Medium	5 - 10 feet	5 - 10 feet
White Pine		5	Pole	7						
Paper Birch		5	Pole/Sapling	5	35					
Swamp White Oak		5	Sapling/Pole	4	35					
Red Pine		5	Pole	8						
128	4199 - Other Mixed Upland Deciduous	Sawtimber Well	6.7	57	81-110	N/A	Stand is dominated by Oak & red maple. The aspen is mostly gone as it declines in the overstory. Understory is dominated by red maple which are succeeding into the canopy.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		15	Log	12		White Oak		Medium	10 - 20 feet	10 - 20 feet
Black/Red (Hybrid) Oak		20	Log/Pole	12		Red Maple		High	10 - 20 feet	10 - 20 feet
White Oak		20	Log/Pole	11		Black/Red (Hybrid) Oak		Low	10 - 20 feet	10 - 20 feet
Blackgum		10	Pole	8						
Paper Birch		10	Pole	8						
Red Maple		25	Log/Pole	10	57					
129	6113 - Lowland Maple	Sawtimber Well	77.1	82	141-170	N/A	Stand is part of a larger drainage complex. Parts of the stand have been selectively harvested in the past, primarily to the east and along the edges. This resulted in a diverse age structure. The canopy maple ranges from under 60 to 125 years old with additional maple succeeding into the canopy. All aspen and paper birch in the stand is concentrated along the edges. Determined to be un-even aged because of the diversity of DBH measurements and 3+ canopy age classes.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		60	Log/XLog/Pole	12	82	Michigan Holly		Medium	5 - 10 feet	5 - 10 feet
Swamp White Oak		10	Log/XLog	16	135	Red Maple		Medium	Variable	Variable
Quaking Aspen		5	Log/Pole	10		Musclewood/Hornbeam		Low	5 - 10 feet	5 - 10 feet
Paper Birch		5	Pole/Log	9		Green Ash		Low	10 - 20 feet	10 - 20 feet
Northern Pin Oak		20	Pole/Log	9		Swamp White Oak		Low	5 - 10 feet	5 - 10 feet



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
130	4139 - Aspen, Mixed Deciduous	Poletimber Well	31.2	34	81-110	N/A	Part of sale number 73-54-90-01 Lewis Road Block harvested winter of 1992. Several low drainages bisect the stand running west to east, 25% lowland with winterberry/moss. Ground cover bracken, winterberry, moss. Stem density varies across stand with the lowest density on higher sand ridges and low hummocky ground. Stand just makes 75% canopy closure.																																															
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131	4199 - Other Mixed Upland Deciduous	Sawtimber Well	11.5	70	111-140	N/A	Formerly part of adjacent stand cut under 73-054-90-01, separated by clearcut. 45% at S end is upland. North end is upland ridges and lowland bottoms. Stand borders Carroll Creek to the north. Aspen are tipping over throughout the stand and ash in bottoms as died. Canopy gaps are naturally forming throughout the stand.																																															
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132	6113 - Lowland Maple	Poletimber Well	21.2	46	81-110	N/A	Habitat cut in 1980 under FTP # W73-104. Stand was previously typed out as a P-type but comments indicated E-type. Aspen is in fact sparsely spread across the stand. A drainage bisects the stand north to south. The center of the stand is a small alder/willow type which the drainage runs through. Stand increases in elevation on either side of the drainage. Most of the oak was left during the '80 cut.																																															
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133	4130 - Aspen	Poletimber Medium	57.3	26	1-50	N/A	Part of sale number 73-011-00-01 Lewis Hines, 2" clearcut, harvested November of 2000. Heavy mortality of aspen was noted at the time. This along with proximity to the water table negatively affected regeneration throughout the stand. The lowest density is at the north end of the stand and slowly increases southward. Knoll/cradle topography with blueberry/bracken fern ground cover. Scotch pine present along road in the SW corner.																																															
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134	4130 - Aspen	Poletimber Well	68.4	35	81-110	N/A	Part of sale number 73-044-90-01 Coleman Road East, 2" clearcut, harvested fall of 1991. Knoll/cradle topography with water standing in some low spots through the center of the stand running NE/SW. Scattered large oak that were left during the previous harvest.																																															
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135	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	5.8	35	51-80	N/A	Part of sale number 73-044-90-01 Coleman Road East, 2" clearcut, harvested fall of 1991. Lower area with standing water. Poor growing conditions resulted in slow, sparse regeneration. Stand is filling in with swamp white oak and maple.																																																		
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136	6113 - Lowland Maple	Sawtimber Medium	22.0	99	51-80	N/A	Lowland stand with significant portion of dead ash resulting in 4 reduced canopy closure. Stand in too wet to harvest and contains multiple forested drains. Marsh grass ground cover in lowest canopy closure areas.																																																		
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137	6220 - Alder/Willow	None	3.6			No	Tr of B, elm (can), serviceb (sub). Grnd cover sedge, forbs. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988.																																																		
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138	4130 - Aspen	Sapling Medium	13.3	6	Immature	N/A	2021 Sale Closure: Clear-cut 2" and up under contract 73-010-18, Culvert City Harvest, during the fall of 2020. 2018 YOE Comments: Upland sand ridge tapering to lowland on either side. Stand is dominated by bigtooth aspen with scattered n. pin oak ranging form sapling to log size. Log size oak are residual from previous harvest.																																																		
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139	4131 - Aspen, Oak	Sapling Well	25.0	15	Immature	N/A	The stand was cut under Huckleberry Aspen, 73-024-10-01 in the winter of 2011/2012 as a 2" clearcut. All oak was left during harvest with a residual around 11 BA/Acre.																																																		
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140	3301 - Low Density Deciduous Trees	None	1.9			No	Trees encroaching. Poor regeneration area from surrounding harvest.																																																		
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141	622 - Lowland Shrub	None	3.6			No	Stand is succeeding to E type. Part of sale number 73-044-90-01 Coleman Road East, 2" clearcut, harvested fall of 1991.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Michigan Holly	High	5 - 10 feet	5 - 10 feet	
								Northern Pin Oak	Low	10 - 20 feet	10 - 20 feet	
								Red Maple	Medium	10 - 20 feet	10 - 20 feet	
Swamp White Oak	Low	5 - 10 feet	5 - 10 feet									
142	4130 - Aspen	Sapling Well	73.6	6	Immature	N/A	Stand has regenerated very well to Aspen with a minor component of oak. Oak and white pine regeneration is heavier in the east end. Red pine and white pine poles are scattered throughout the stand. Sale Closure: Harvested in 2020 under contract 73-006-18, Bemaltes Wald Mix. Clear-cut 2" and up except for pine and green marked oak. 2018 YOE Comments: Stand is doing quite well there are areas that are heavy to red maple and pockets of pine in the stand. Aspen also declines in vigor towards the east. Higher density log size residual oak as well farther east.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	72	Sapling	2	6
								Red Maple	5	Sapling	2	6
								Northern Pin Oak	10	Sapling	2	6
								Red Pine	2	Log/Pole	10	
								White Pine	8	Log	15	
White Pine	3	Sapling	1									
143	4131 - Aspen, Oak	Sapling Well	153.9	15	Immature	N/A	Stand was cut as part of sale number 73-024-10-01 Huckleberry Aspen clearcut in fall of 2011. All red and white pine were left west of Lewis Rd. and south of W. Hines St. (Unit 1). All red pine, white pine, and oak were left in the rest of the sale. Good mix of oak, maple, aspen, and pine. Additional white and red pine will most likely seed in. Stand is regenerating very well and dense in most areas. Sporadic pockets are heavier to oak regeneration.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	35	Sapling	2	15
								Quaking Aspen	20	Sapling	2	15
								Red Maple	10	Sapling	3	15
								Northern Pin Oak	15	Sapling	2	15
								White Oak	10	Sapling	2	15
								White Pine	5	Log/Pole	14	
Red Pine	5	Log	12									
144	4131 - Aspen, Oak	Poletimber Well	177.7	35	81-110	N/A	Harvest left scattered oak and pine. Residual oak is now a mix of poles and logs. Red pine is concentrated in pockets, white pine is more scattered. Some of the quaking aspen is off site and not growing as well as the big tooth aspen. 11 1/2 acres along the west boundary of this stand burned in 2014 due to a wildfire killing most of the aspen. Many areas of this stand are heavier to oak regeneration and are only 5-6" DBH average.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	35	Pole	6	35
								Black/Red (Hybrid) Oak	15	Log/Pole	10	35
								Red Maple	20	Pole	6	35
								White Pine	5	Log/Pole	10	
								Quaking Aspen	15	Pole	6	35
								Red Pine	2	Log	12	
								White Oak	8	Pole/Sap/Log	8	35
								Sub-Canopy Species	Density	Avg. Height	Size	
								Serviceberry (Juneberry)	Medium	5 - 10 feet	5 - 10 feet	
								White Oak	Low	5 - 10 feet	5 - 10 feet	
								White Pine	Low	< 5 feet	< 5 feet	
Red Maple	Medium	>20 feet	>20 feet									
Red Pine	Trace	< 5 feet	< 5 feet									



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145	4131 - Aspen, Oak	Poletimber Well	10.1	33	51-80	N/A	Stand was harvested in '93. There is a better component of aspen clones in this stand compared to the adjacent oak stand. Small pole sized stand. There is an old logging road running NE/SW through the stand & ground shows signs of rutting from previous harvest.																																																																																	
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146	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	137.3	75	81-110	N/A	The stand has multiple forested drains running through it with no well defined banks. The trees located in these drains are shallow rooted with many of them wind thrown. They are also older and larger with un-even aged characteristics. The majority of the stand is harvestable lowland consisting of low pockets of standing water and upland knobs. Aspen is present in the stand but a large portion has already fallen out. There are pockets of hemlock along the edges of the stand as well as L-Types toward the south. The ground cover is heavy to sensitive fern and cinnamon fern, also present is blue flag and marsh marigold. In the stand on some of the nurse log there are hemlocks regenerating.																																																																																	
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147	6113 - Lowland Maple	Poletimber Well	6.3	69	111-140	N/A	Stand was thinned in 1997. Minimal regeneration from harvest, stand is now mostly comprised of released poles.																																																																																	
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148	4199 - Other Mixed Upland Deciduous	Sapling Well	83.7	4	Immature	N/A	Stand is regenerating well. Heavy deer browse in areas. The red maple regeneration is higher in the center portion of stand, oak regeneration is higher on the east and west end of stand. White pine seedlings are starting to show too. The east edge is struggling to regenerate 2024 Sale Closure: Harvested in 2021 under contract 73-006-18, Bemaltes Wald Mix. Shelterwood harvest retaining 40 - 60 sqft of oak and maple. 2018 YOY Inventory: Stand is mainly 2 aged there is an overstory of poor quality pin and black oak with an understory of oak poles and red maple saplings. The stand is actually O9O5. The grasses in the stand is mainly poverty grass.																																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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149	4131 - Aspen, Oak	Poletimber Medium	15.0	44	81-110	N/A	Patchy aspen stand, areas of stand are heavier to open grown maple and oak with less canopy cover. Poorer quality aspen than surrounding stands.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Log	9	44	Serviceberry (Juneberry)	Low	10 - 20 feet	10 - 20 feet
White Oak	2	Pole	7	44	White Pine	Trace	5 - 10 feet	5 - 10 feet
Quaking Aspen	55	Pole	7	44	Black/Red (Hybrid) Oak	Low	10 - 20 feet	10 - 20 feet
Black/Red (Hybrid) Oak	20	Pole/Log	9	44	Red Maple	Low	>20 feet	>20 feet
Black Cherry	3	Pole	6		White Oak	Low	10 - 20 feet	10 - 20 feet

150	6112 - Lowland Aspen	Poletimber Well	6.3	62	81-110	N/A	Stand is doing quite well there are areas that are heavy to red maple. Part of stand 142 that dips down to lower ground. Wettest to the south.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	15	Pole/Log	9	62	Red Maple	Medium	>20 feet	>20 feet
Red Maple	30	Pole/Sap/Log	7	62				
Quaking Aspen	55	Pole/Log	8	62				

151	4125 - Black, N. Pin Oak	Poletimber Medium	8.1	33	51-80	N/A	Stand harvested in '93. Overall a patchy regenerated oak stand with a minor component of maple and aspen. Stand is closer to the 50% canopy closure in most areas.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	70	Pole	6	33	Northern Pin Oak	Low	5 - 10 feet	5 - 10 feet
Red Maple	22	Pole	6	33				
Blackgum	3	Pole/Sapling	6					
Quaking Aspen	5	Pole	6	33				

152	6220 - Alder/Willow	None	36.2			No	The stand is low and wet and lies along the south branch of Carrol Creek. The stand is mainly tag alder and willow brush.
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Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	5 - 10 feet
Willow spp.	Medium	5 - 10 feet	5 - 10 feet

153	6114 - Lowland Oak	Poletimber Medium	2.8	28		N/A	Stand is a draw in stand 45 that has begun to regenerate to swamp White Oak, Hybrid oak and maple.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	5		Pussy Willow	Full	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	35	Pole	6		Red Maple	Low	10 - 20 feet	10 - 20 feet
Swamp White Oak	45	Pole	5	28	Willow spp.	Medium	5 - 10 feet	5 - 10 feet
Red Maple	10	Pole	5		Tag Alder	Low	5 - 10 feet	5 - 10 feet

154	4130 - Aspen	Poletimber Well	48.8	38	81-110	N/A	Stand is regenerating well to a mix of trembling and bigtooth aspen with pockets of red maple and oak in it.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	10	Log/Pole	12	38	Black Cherry	Low	5 - 10 feet	5 - 10 feet
Red Maple	10	Log/Pole	12	38	Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	30	Pole	7	38	Serviceberry (Juneberry)	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	50	Pole	8	38				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
155	4130 - Aspen	Poletimber Medium	22.0	41	1-50	N/A	Was originally set up under Short Road Sale # 103-80A but this portion was never cut. Re-sold under sale number 73-022-84-02, harvested all tree yielding a 100" pulp stick. Off site aspen, poor formed with black canker. Low stocking throughout with variable diameters. Bigtooth aspen is doing better than quaking in the southern half of the stand.																																																								
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156	4130 - Aspen	Poletimber Well	31.3	28	51-80	N/A	Stand has regenerated well in the southern half & becomes more patchy with aspen clones towards the north. Part of sale number 73-015-97-01 Donut Trail Sale which was harvested late summer 1998. Minimum piece utilization.																																																								
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157	4130 - Aspen	Sapling Medium	23.5	6	Immature	N/A	2020 Sale Closure Comments: Harvested in the summer of 2020 under contract 73-011-18, Golden Road Harvest. Stand was not chipped. 2018 YOE Comments: The stand has regenerated as an A6O5 with the west end of the stand being more of an O5A5. The soils under the stand are mainly Pipestone Sand in the west end and Covert sand in the east end.																																																								
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158	6221 - Fen	None	12.7			No	Flood plain of Carroll Creek Drain.																																																								
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159	330 - Low-Density Trees	None	1.9			No	Part of sale number 73-044-90-01 Coleman Road East, 2" clearcut, harvested fall of 1991. Most likely a landing area which did not regenerate.																																																								
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160	6222 - Shrub-Carr	None	17.1			No	Drainage that flows water to Carroll Creek Drain.																																																								
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161	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	16.6	54	111-140	N/A	Stand is primarily lowland with higher knobs scattered throughout. Forested drain flows through the stand, almost an intermittent stream.																																										
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162	6113 - Lowland Maple	Sawtimber Well	85.4	85	111-140	N/A	Stand is highly variable from lowland maple to narrow upland ridges. The aspen is falling out of the ridges and converting to oak and maple. Overall too wet for commercial harvest & regeneration would be a concern.																																										
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163	6223 - Inundated Shrub Swamp	None	3.7			No	An intermittent stream flows into this stand from the south and flows out through an old beaver dam where stand 113 and 191 meet. Additional water flows into this stand from a forested drain flowing through stand 192.																																										
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164	4131 - Aspen, Oak	Poletimber Well	32.6	28	51-80	N/A	Part of donut trail sale harvested in '98. Minimum piece utilization left all oak. Stand hits on a sand ridge. Aspen stocking is higher in the south end. The narrow ridge running north contains more pole sized oak and poorer stocking.																																										
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165	6239 - Mixed Emergent Wetland	None	3.9			No	Marsh stand with alder perimeter and scattered hardwood.																																										
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166	6239 - Mixed Emergent Wetland	None	4.7			No	Low tag alder/lowland brush pockets. Drains to the NW to Carroll Creek Drain.																																										



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167	4130 - Aspen	Poletimber Well	28.5	43	81-110	N/A	Part of sale number 73-102-80-01 Waterwing Sale, minimum piece utilization of red oak, white oak, red pine, paper birch, red maple, black cherry, aspen, and ash, harvested in 1983 (most of sale was cut). Stand consists of the upland portions of the previous sale.																																																							
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168	3103 - Rubus-Fern	None	1.1			No	Bracen fern knob with a couple cherries and a red maple.																																																							
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169	6220 - Alder/Willow	None	2.0			No	Alder willow stand. Stand is an area where water backs up before flowing into Carroll Drain.																																																							
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170	310 - Herbaceous Openland	None	4.7			No	Poor regeneration area. Stand sits on a sand ridge between low areas. Ground cover is bracken fern and sweet fern.																																																							
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171	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	5.5	33	51-80	N/A	Cut the same time as stand to the south but this portion was lower. 3 acre inclusion of mature timber along west edge. Forested drain flows through the southern 1/3rd of the stand. Part of sale # 73-045-89-01 Carroll Creek Access harvested Feb. of '93.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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172 4199 - Other Mixed Upland Deciduous Sapling Medium 36.0 6 Immature N/A

Stand has patchy regeneration due to both browse and high water tables. The upland ridges are starting to regenerate past browse heights. The west end of the treatment have swamped out. The topography in this stand is upland knobs with low drainages surrounding. Water spills out of the beaver pond to the north and flows SE through the stand. Seed tree harvested (32 acres) under contract 73-010-18, Culvert City Harvest, in the fall of 2020. 25 sqft of residual aspen/oak/mixed hardwood left. Golden Road Project did not proceed through this stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log	14	
Black/Red (Hybrid) Oak	5	Log/XLog	16	
Bigtooth Aspen	3	Log	14	
Red Maple	35	Sapling	1	6
Black/Red (Hybrid) Oak	10	Sapling	1	
Bigtooth Aspen	30	Sapling	1	
Black Cherry	7	Sapling	1	

173 6119 - Mixed Lowland Deciduous Forest Poletimber Well 10.0 28 81-110 N/A

Lowland portion of Donut Trail Sale. Stand has transitioned to a lowland maple stand with an oak component.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Swamp White Oak	10	Pole/Log	9	28	Michigan Holly	Medium	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	20	Pole/Log	9	28				
Paper Birch	15	Pole	6	28				
Red Maple	55	Pole	8	28				

174 3301 - Low Density Deciduous Trees None 1.9 No

Landing for Lewis Road Block 73-054-90-01 which was cut winter of '92.. This area did not regenerate well.

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	High	>20 feet	>20 feet
Red Maple	Low	10 - 20 feet	10 - 20 feet

175 6119 - Mixed Lowland Deciduous Forest Poletimber Well 96.6 34 51-80 N/A

Part of sale number 73-54-90-01 Lewis Road Block harvested winter of 1992. Unit was a 2" clearcut of all species. The majority of the stand is low and wet with standing water during wet seasons. Trail road follows a high ridge for the most part. Dense understory of lowland brush in the lowest areas has reduced stem density.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	25	Pole	7	34	Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Red Maple	20	Pole	7	34	Alternate-leaved Dogwood	Medium	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	25	Pole	6	34	Musclewood/Hornbeam	Low	5 - 10 feet	5 - 10 feet
Swamp White Oak	8	Pole/Sapling	6	34	Northern Pin Oak	Low	< 5 feet	< 5 feet
Paper Birch	15	Pole/Sapling	5	34	Willow spp.	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	5	Pole	7	34	Michigan Holly	High	5 - 10 feet	5 - 10 feet
White Oak	2	Pole/Sapling	5	34				

176 42310 - Planted Spruce Poletimber Well 5.2 63 111-140 N/A

Planted spruce stand not sure if planted by DNR or previous owner. Stands are located on small upland ridges.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	100	Pole/Log	8	63



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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177 6113 - Lowland Maple Sawtimber Well 17.5 100 141-170 N/A Stand has transitioned to a lowland red maple swale. There is a small component of oak and basswood present in areas. Trace amounts of ash and elm in the understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	72	XLog/Log	18	100	Red Maple	Medium	>20 feet	>20 feet
Cottonwood	10	XLog	28		Green Ash	Low	>20 feet	>20 feet
Basswood	15	Log	13		Musclewood/Hornbeam	High	10 - 20 feet	10 - 20 feet
Red Oak	3	Log/XLog	17	80	Basswood	Low	>20 feet	>20 feet
					Elm (Sp.)	Low	>20 feet	>20 feet
					Red Oak	Low	>20 feet	>20 feet

178 4131 - Aspen, Oak Poletimber Well 55.6 35 81-110 N/A Part of sale number 73-055-90-01 Coleman Road West, 2" clearcut, harvested during the winter of 1991. Primarily an upland stand with low veins running west and east. Water table is close to the surface throughout. The aspen quality is better in the southern half of the stand. There is an old access road running east/west in the southern 3rd of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	60	Pole	8	35	Michigan Holly	Low	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	15	Pole	8	35	Autumn Olive	Low	5 - 10 feet	5 - 10 feet
Paper Birch	10	Pole	6	35	Red Maple	Low	10 - 20 feet	10 - 20 feet
Red Maple	5	Pole	9	35	White Oak	Low	5 - 10 feet	5 - 10 feet
White Oak	5	Pole	8		Musclewood/Hornbeam	High	5 - 10 feet	5 - 10 feet
Balsam Poplar	5	Pole	8		Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
					Flowering Dogwood	Low	5 - 10 feet	5 - 10 feet

179 6112 - Lowland Aspen Poletimber Poor 2.3 35 51-80 N/A Sparsely vegetated lowland thicket. This area of the stand swamped out during previous harvest & has started to fill in with maple and aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	65	Pole	6	35	Michigan Holly	Medium	5 - 10 feet	5 - 10 feet
Red Maple	20	Pole/Sapling	6		Quaking Aspen	Low	5 - 10 feet	5 - 10 feet
Black Cherry	2	Pole	6	35	Paper Birch	Low	10 - 20 feet	10 - 20 feet
Black/Red (Hybrid) Oak	5	Pole	8		Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
White Pine	3	Pole/Log	9		Serviceberry (Juneberry)	Low	5 - 10 feet	5 - 10 feet
Swamp White Oak	5	Pole	6					

180 4130 - Aspen Poletimber Well 44.4 35 81-110 N/A Dense stand of upland aspen. Scattered residual oak and maple of good quality. The Northwest corner has a higher canopy residual of oak, with more oak regeneration and smaller diameter aspen. Quaking aspen and birch are concentrated in veins of slightly lower elevation with possible perched water table. This parcel was acquired in May of 1998 by way of exchange acquisition. Stand was already harvested.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	50	Pole	7	35	Serviceberry (Juneberry)	Low	5 - 10 feet	5 - 10 feet
Red Maple	10	Log/Pole	10		Alternate-leaved Dogwood	Trace	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	5	Pole	7		Black/Red (Hybrid) Oak	Low	10 - 20 feet	10 - 20 feet
Black/Red (Hybrid) Oak	7	Log	16	80	White Oak	Low	5 - 10 feet	5 - 10 feet
White Oak	3	Log	16	80	Red Maple	Low	10 - 20 feet	10 - 20 feet
Paper Birch	5	Pole	5					
Quaking Aspen	20	Pole	6	35				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
181	4130 - Aspen	Sapling Well	52.5	3	Immature	N/A	Stand has regenerated well. There are areas of heavy browse, but stand is already above the 75% canopy closure & will continue to fill in. 2023 Sale Closure: Harvested during September of 2023 under contract Carroll Creek Aspen. Clear-cut 2" and up.2018 YOE Inventory: Medium stocked aspen stand. True upland aspen. Scattered oak throughout and mostly 40 yrs. old. Some older stems present.																																															
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182	42200 - Natural White Pine	Sawtimber Well	17.9	50	171-200	N/A	Small planted red pine inclusion carrying 200 + BA located in the eastern portion of the stand. Red pine has areas of mortality. Annual rings showed impressive growth before crown closure. Dense white pine stand that is thinner along the southern boundary.																																															
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183	6112 - Lowland Aspen	Poletimber Well	41.5	45	81-110	N/A	Stand is a matrix of upland ridges and lowland swales. Ground gets wetter as you head north. Part of sale number 103-80A Short Road Sale, cut all aspen, oak, maple, ash, white pine, cottonwood, and birch, harvested winter of 1981. Did not cut all the way to north PVT line.																																															
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184	6113 - Lowland Maple	Sawtimber Well	13.4	88	111-140	N/A	Drainage runs through stand into Carroll Creek. Heavier component of mixed hardwoods compared to the E9 stand to the south. Stand is to wet to harvest.																																															
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185	310 - Herbaceous Openland	None	1.1			No	Part of sale number 73-044-90-01 Coleman Road East, 2" clearcut, harvested fall of 1991. Landing area which didn't regenerate.																																															
186	6220 - Alder/Willow	None	1.4			No	Alder willow stand. Stand is an area where water backs up before flowing into Carroll Drain.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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187 6119 - Mixed Lowland Deciduous Forest Sawtimber Well 11.2 57 51-80 N/A Low drainages/depressions left when surrounding stand was harvested, 73-011-00-01 Lewis Hines. Heavy knoll/cradle topography with standing water. Dense understory of lowland hardwood and lowland brush. Canopy oak is heavier in the southern end of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Log/Pole	10	57	Serviceberry (Juneberry)	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	5	Log/Pole	10	57	Red Maple	Medium	10 - 20 feet	10 - 20 feet
Black/Red (Hybrid) Oak	25	Pole/Log	8	57	Michigan Holly	High	5 - 10 feet	5 - 10 feet
Red Maple	40	Log/Pole	10	57	Northern Pin Oak	Medium	10 - 20 feet	10 - 20 feet
Paper Birch	5	Pole/Sapling	7	57	Paper Birch	Low	10 - 20 feet	10 - 20 feet
Swamp White Oak	10	Pole	9					

188 4130 - Aspen Poletimber Well 20.2 35 81-110 N/A Part of sale number 73-044-90-01 Coleman Road East, 2" clearcut, harvested fall of 1991. Red pine was not cut in this unit and is mainly in the south end with white pine. Primarily upland except where stand pinches in between Coleman Rd. and stand 221. Quaking aspen and red maple concentrated here.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	45	Pole	7	35	White Pine	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	30	Pole	7	35	Northern Pin Oak	Low	5 - 10 feet	5 - 10 feet
Red Maple	10	Pole	8	35	Red Maple	Low	10 - 20 feet	10 - 20 feet
Northern Pin Oak	10	Pole	8	35	Witch Hazel	Low	5 - 10 feet	5 - 10 feet
White Pine	5	Log/Pole	10					

189 6113 - Lowland Maple Poletimber Medium 3.6 54 51-80 N/A Drainage cut with adjacent aspen. Shallow depressions throughout. Doesn't flow much water. Scattered large diameter oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole/Sapling	7		Red Maple	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	5	Pole/Sapling	7					
Northern Pin Oak	13	Pole/Sapling	6					
Black/Red (Hybrid) Oak	10	Log	15					
White Oak	2	Log	15					
Red Maple	60	Pole/Sap/Log	6	54				

190 4130 - Aspen Sapling Well 12.5 5 Immature N/A 2021 Sale Closure: Clear-cut 2" and up harvested under contract 73-010-18, Culvert City Harvest, in the fall of 2020. Golden Road Project did not proceed through this stand.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	75	Sapling	1	5
Red Maple	10	Sapling	1	
Black Cherry	5	Sapling	1	
Black/Red (Hybrid) Oak	10	Sapling	1	

2018 YOE Comments: Upland knob dominated by aspen of medium stocking. Sparsest in the center of the stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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191	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	9.1	54	81-110	N/A	The stand is a mix of ridges and lowland drains. Stand is lowest in the center with an intermittent stream in the west half.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	13	Pole	8	54	Michigan Holly	Medium	5 - 10 feet	5 - 10 feet
Paper Birch	5	Pole/Sapling	6	54	Red Maple	Medium	10 - 20 feet	10 - 20 feet
White Oak	5	Pole/Log	9		Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
Blackgum	3	Log/Pole	10		Serviceberry (Juneberry)	Low	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	25	Log/Pole	12		Black Cherry	Low	10 - 20 feet	10 - 20 feet
Red Maple	45	Pole/Log	9	54				
Black Cherry	4	Pole	8					

192	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	10.9	33	1-50	N/A	Harvested in February of 1993 under contract number 73-007-88-01 Carroll Creek Grouse. Two inch spec. clearcut with notes indicating a clean cut but extensive rutting occurred. Sit and is close to 25% canopy closure. Almost flooded out. Heavy tag alder and marsh grass throughout.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	10	Pole/Sapling	5	33	Alternate-leaved Dogwood	Low	5 - 10 feet	5 - 10 feet
Swamp White Oak	15	Pole/Sapling	6	33	Willow spp.	Medium	10 - 20 feet	10 - 20 feet
Red Maple	45	Pole/Sapling	5	33	Tag Alder	High	5 - 10 feet	5 - 10 feet
Paper Birch	25	Sapling	2	33				
Quaking Aspen	5	Pole/Sapling	5	33				

193	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	7.1	44	81-110	N/A	Stand was part of stand 214, excluded during sale prep. Predominantly red maple poles & poorer quality aspen. Ground is not conducive to commercial harvests. 2018 YOE Comments: Part of sale number 73-025-81-01 Backache Sale, minimum piece utilization red maple, ash, white birch, and oak (most of sale was cut). Primarily an upland ridge which tapers to low ground along the north edge. Vanes of low ground run through the stand in the center and western portions. Aspen is least dense in the SE corner.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Pole	6	44	Swamp White Oak	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	20	Pole	6	44	Black/Red (Hybrid) Oak	Medium	10 - 20 feet	10 - 20 feet
Red Maple	55	Pole	7	44	White Pine	Low	< 5 feet	< 5 feet
Black/Red (Hybrid) Oak	10	Pole	7		Red Maple	Medium	>20 feet	>20 feet
Swamp White Oak	5	Pole	8					

194	6222 - Shrub-Carr	None	9.3			No	Blueberry/leather leaf east side.
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Sub-Canopy Species	Density	Avg. Height	Size
Michigan Holly	High	5 - 10 feet	5 - 10 feet
Northern Pin Oak	Low	10 - 20 feet	10 - 20 feet
Swamp White Oak	Low	10 - 20 feet	10 - 20 feet

195	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	16.1	66	111-140	N/A	Dominant age is 56 with younger and older stems of white pine present. White pine has good form. Sub-canopy white pine varies in height, many have already succeeded into the canopy. Central portion of stand is dominated by 40 year old aspen and pockets of red pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	35	Pole/Log	9	66	White Pine	Medium	Variable	Variable
White Pine	50	Log	16	66	Red Maple	Low	10 - 20 feet	10 - 20 feet
Red Maple	5	Log/Pole	10	66	Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
Red Pine	10	Log	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
196	6113 - Lowland Maple	Sawtimber Well	23.3	100	141-170	N/A	Hemlock, white pine, yellow birch along north edge of the stand. Even aged E 9 but moving towards un-even aged as cottonwood and maple naturally succumb to wind throw.																																																			
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197	4131 - Aspen, Oak	Sapling Well	32.9	35	51-80	N/A	Part of sale number 73-044-90-01 Coleman Road East, 2" clearcut, harvested fall of 1991. Canopy closure closer to 75% than 100%. Decent aspen stand but will never be super dense. Stand has several low areas which are closer to E-types and are located in the SE and NW of this stand.																																																			
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198	6239 - Mixed Emergent Wetland	None	28.9			No	This stand is low and wet and is mainly an L-Type with scattered swamp hardwood on slight ridges.																																																			
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199	6113 - Lowland Maple	Sawtimber Medium	2.1	66	81-110	N/A	This area was excluded from the surrounding seed tree harvest due to wet ground & sheet flow during the spring seasons.																																																			
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200	6239 - Mixed Emergent Wetland	None	19.0			No	Marsh stand.																																																			
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202	4130 - Aspen	Sapling Well	15.9	5	Immature	N/A	2021 Sale Closure: Clear-cut 2" and up under contract 73-010-18, Culvert City Harvest, in the fall of 2020. 2018 YOE Comments: The soils under the stand are mainly Pipestone Sand in the west end and Covert sand in the east end. West half of the stand sits on a sand ridge with higher stem density. East half is on a dry sand plain with lower stem density.																																																											
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203	6239 - Mixed Emergent Wetland	None	2.1			No	Old beaver flooding currently drained. Filling in with lowland shrubs and grasses.																																																											
204	623 - Emergent Wetland	None	62.3			No	Marsh grass stand with pockets of michigan holly.																																																											
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205	6113 - Lowland Maple	Poletimber Medium	14.7	38	51-80	N/A	Stand is split between upland and lowland ground. The lowland ground is in the north with more maple and swamp white oak. The southern end is upland with lower stocking and more aspen. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988.																																																											
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206	6113 - Lowland Maple	Poletimber Poor	6.5	57	1-50	N/A	Low density lowland maple stand with a couple of upland knobs. Overall poor stocking with dense thickets throughout stand.																																																											
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207	4130 - Aspen	Poletimber Medium	26.3	35	51-80	N/A	Stand density has been reduced due to off site aspen, canker, and heavy browse. Stand is closer to 75% canopy closure. Scattered residual stems of big tooth aspen, red maple, and oak. Heavy knoll/cradle topography throughout. North end of this stand is wet. Part of sale number 73-055-90-01 Coleman Road West, 2" clearcut, harvested during the winter of 1991.																																																											
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208	4125 - Black, N. Pin Oak	Sawtimber Well	7.7	99	81-110	N/A	Mature oak ridge with a minor component of aspen and maple. Stand was lightly thinned in the past, not much regeneration present.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
209	42210 - Natural Red Pine	Sawtimber Well	6.6	94	141-170	N/A	Part of sale number 73-024-10-01 Huckleberry Aspen clearcut in fall of 2011. All red and white pine were left west of Lewis Rd. and south of W. Hines St. (Unit 1). Stand is a dense portion of residual red and white pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		85	Log	14	94	Bigtooth Aspen		
White Pine		15	Log	16		Black/Red (Hybrid) Oak		
						Red Maple		
						Serviceberry (Juneberry)		
210	4131 - Aspen, Oak	Poletimber Well	35.4	35	81-110	N/A	Part of sale number 73-044-90-01 Coleman Road East, 2" clearcut, harvested fall of 1991. Knoll/cradle topography with primarily dry cradles. Solid aspen regeneration with oak occupying much of the sub-canopy. A couple large diameter white pine were left as residual from harvest.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		50	Pole	6	35	Black/Red (Hybrid) Oak		
Black/Red (Hybrid) Oak		20	Pole	7	35	White Oak		
Red Maple		15	Pole	6	35	Red Maple		
White Oak		15	Pole/Sapling	6				
211	4130 - Aspen	Poletimber Well	53.1	35	81-110	N/A	Part of sale number 73-044-90-01 Coleman Road East, 2" clearcut, harvested fall of 1991. Stand has filled in well. Canopy and understory white pine are concentrated in the SW portion of the stand. Some low pockets present but predominantly upland.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		40	Pole	8	35	Black/Red (Hybrid) Oak		
Quaking Aspen		25	Pole	7	35	Serviceberry (Juneberry)		
Red Maple		15	Pole/Log	9	35	Michigan Holly		
Black/Red (Hybrid) Oak		10	Pole/Log	8		White Pine		
White Pine		5	Log/Pole	10		White Oak		
White Oak		5	Pole	7				
212	4130 - Aspen	Poletimber Medium	5.6	35	51-80	N/A	Part of sale number 73-044-90-01 Coleman Road East, 2" clearcut, harvested fall of 1991. Area was used as a landing resulting in a low density. Aspen clones are present and starting to fill in canopy.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		75	Pole	8	35	Serviceberry (Juneberry)		
Red Maple		10	Pole	7	35	White Pine		
Black/Red (Hybrid) Oak		15	Pole/Log	8		Black/Red (Hybrid) Oak		
213	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	12.7	35	1-50	N/A	Part of sale number 73-044-90-01 Coleman Road East, 2" clearcut, harvested fall of 1991. Low area with poor growing conditions resulting in slow regeneration. Stand will fill in over time as understory matures. Blueberry/bracken fern ground cover on knolls, water and marsh grass in depressions.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		20	Pole/Sapling	5	35	Swamp White Oak		
Northern Pin Oak		20	Pole/Sapling	5	35	White Pine		
White Oak		10	Sapling/Pole	4	35	White Oak		
Swamp White Oak		25	Sapling/Pole	4	35	Northern Pin Oak		
Paper Birch		5	Sapling	4	35	Nannyberry		
White Pine		10	Pole	6		Tag Alder		
Quaking Aspen		10	Pole/Sapling	5	35			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
214	4130 - Aspen	Sapling Medium	57.1	6	Immature	N/A	Harvested in the summer of 2020 under contract 73-011-18, Golden Road Harvest. Stand was not chipped. Patchy regeneration in areas due to browse, but stand will continue to fill in as it progresses.																																													
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215	4126 - White, Black, N. Pin Oak	Poletimber Well	17.8	35	51-80	N/A	Part of sale number 73-044-90-01 Coleman Road East, 2" clearcut, harvested fall of 1991. More upland than lowland but not far from 50/50. Lowland portions of the sale are concentrated around adjacent lowland stand 141. Knoll/cradle topography throughout the entire stand.																																													
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217	4130 - Aspen	Poletimber Well	75.8	34	81-110	N/A	Fairly good stand with oak and red maple in understory. Majority of stand is upland with the lowland component in the NE corner. Part of sale number 73-54-90-01 Lewis Road Block harvested winter of 1992. Unit was cut 4" and up all species.																																													
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218	4125 - Black, N. Pin Oak	Sawtimber Medium	4.9	58	51-80	N/A	Part of sale was Huckleberry Aspen, sale # 73-024-10-01. Area of dense residual oak. Understory regeneration from harvest is extremely heavy to red maple with oak stems here and there. Harvest removed all species but oak from this area. Recommend to manage stand with adjacent aspen once aspen is ready for harvest. Stand is currently three aged with two ages in the canopy.																																													
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219	4199 - Other Mixed Upland Deciduous	Sawtimber Well	5.4	70	81-110	N/A	Upland hardwood ridge surrounded by lowland hardwood and lowland thickets. Maple dominated canopy with a small component of aspen and oak filling in the canopy.																																													
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220	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	7.7	37	1-50	N/A	Harvested February of 1989 under contract number 73-007-88-01 Carroll Creek Grouse. Lowland portion of harvest which did not regenerate well. Densl lowland brush understory. Portions of this stand may be too wet to harvest in the future.																																												
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221	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	21.9	93	51-80	N/A	Drainage runs through the stand and into Carroll Creek. This stand has substantially more standing water than the stand to the north. This appears to be a result of several roads placed across the drain during historic logging. Dead ash component throughout.																																												
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222	6113 - Lowland Maple	Poletimber Medium	7.2	87	51-80	N/A	Intermittent stream flows through the stand from north wetland. Reduced canopy closure due to ash mortality. Medium density poles will increase future at and canopy closure.																																												
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223	622 - Lowland Shrub	None	1.5			No																																													
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224	6239 - Mixed Emergent Wetland	None	6.5			No																																													
225	6113 - Lowland Maple	Sawtimber Well	9.4	61	81-110	N/A	Low spill way between two sand ridges connecting southern lowland complex to Carroll Creek Drain. Intermittent stream flows the length of the stand. Older stems of oak and maple scattered throughout. Aspen concentrated to the north. Density decreases as stand juts out into non-forested lowland.																																												
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226	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	36.6	51	81-110	N/A	Stand is comprised of dry ridges and wet depressions running NW to SE connecting the southern lowland complex to Carroll Creek Drain. North edge of the stand tapers down to an E-type in spots. Most of the stand experiences seasonal flooding. Aspen is concentrated primarily in one or two pockets along the trail road.																																																					
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227	4130 - Aspen	Sapling Well	9.8	5	Immature	N/A	2021 Sale Closure: Clear-cut 2" and up under contract 73-010-18, Culvert City Harvest, in the fall of 2020. 2018 YOE Comments: Several pockets of this stand were harvested February of 1993 under contract number 73-007-88-01 Carroll Creek Grouse. Stand sits on an upland ridge separating the southern lowland complex from Carroll Creek Drain. Medium to poor density aspen.																																																					
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228	6113 - Lowland Maple	Poletimber Well	11.0	48	111-140	N/A	Lowland maple stand continuing to recruit and grow in basal area. Portions of stand are too wet for harvest.																																																					
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229	4131 - Aspen, Oak	Poletimber Medium	13.1	33	51-80	N/A	Stand sits on a sand ridge tapering to lower elevations on all sides. Stocking is patchy with sporadic aspen clones and areas heavier to pole sized oak. Harvested February of 1993 under contract number 73-007-88-01 Carroll Creek Grouse.																																																					
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230	6112 - Lowland Aspen	Poletimber Well	7.5	38	81-110	N/A	Lowland aspen stand split from upland stand on the east and west side. This stand has standing water & the aspen is beginning to fall out. Stand is transitioning to a lowland maple stand with a minor oak component. Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988.																																																					
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231	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	6.2	42	51-80	N/A	Habitat cut in '84 with stand 120 (W73-188) but with better success because of closer proximity to the water table and presumed less intense historic burning. Stand is continuing to fill in with maple and white oak in areas. Overall too wet for commercial harvests.																																																		
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232	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	9.1	70	1-50	N/A	Significant dead ash component. Marsh grass and cattail ground cover along with standing water. Dense lowland shrub layer.																																																		
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233	4125 - Black, N. Pin Oak	Sawtimber Medium	8.9	96	81-110	N/A	Upland oak stand that is starting to decline. Red maple and oak is recruiting. Recommend to treat with adjacent upland stands to the east.																																																		
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234	4131 - Aspen, Oak	Poletimber Well	34.4	28	81-110	N/A	1990 Closure Comments: TS# 73-022-88-01, The Missing Piece completed in early 1990. All species were harvested 4" and up. 2018 YOE Comments: Sapling stand over all. Oak was left in previous harvest resulting in mixed ages and size classes. Stand transitions to P-type a long it's southern boarder.																																																		
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235	6113 - Lowland Maple	Sawtimber Medium	9.9	99	111-140	N/A	Connected to eastern lowland stands by a forested drain at the north end. Dead ash component throughout, converting to lowland maple.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
236	4130 - Aspen	Poletimber Well	38.8	42	81-110	N/A	Stand is doing quite well there are areas that are heavy to red maple and pockets. East 1/3rd low and wet with a forested drain bisecting stand connecting southern e-type to Olson ditch along north boundary.																																																											
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237	4131 - Aspen, Oak	Sapling Well	16.2	28	81-110	N/A	1990 Closure Comments: TS# 73-022-88-01, The Missing Piece completed in early 1990. All species were harvested 4" and up. 2018 YOE Comments: Upland stand with lowland pockets. Minor knoll/ cradle topography.																																																											
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238	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	4.7	61	51-80	N/A	Wet stand with knoll/ cradle topography. Sheet flow with in stand during wet periods.																																																											
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239	4139 - Aspen, Mixed Deciduous	Sawtimber Well	9.1	75	111-140	N/A	Stand sits on an upland knob with scattered lowland pockets. There is old boundary paint from a previous timber sale. This area was not harvested. Southern tail of stand is separated by a forested drain. Heavy maple and oak understory ranging from mostly saplings in the south to mostly poles in the north. This change is attributed to a less dense canopy.																																																											
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240	6112 - Lowland Aspen	Poletimber Medium	5.7	45	51-80	N/A	Lowland stand with pockets of marsh grass and lowland brush. Aspen in stand appears to be the result of clearing the adjacent pipeline to the south.																																																											
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Tag Alder	Medium	5 - 10 feet	5 - 10 feet																																																															
Michigan Holly	Low	5 - 10 feet	5 - 10 feet																																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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241 4130 - Aspen Sapling Well 31.7 6 Immature N/A Harvested in the summer of 2020 under contract 73-011-18, Golden Road Harvest. Stand was not chipped. Residual red and white pine scattered throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	50	Sapling	1	6
Quaking Aspen	20	Sapling	1	
Black/Red (Hybrid) Oak	15	Sapling	1	
Red Maple	10	Sapling	1	
Black Cherry	5	Sapling	1	

242 6113 - Lowland Maple Poletimber Well 6.0 33 81-110 N/A Harvested February of 1993 under contract number 73-007-88-01 Carroll Creek Grouse. Lowland maple stand starting to grow in basal area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Swamp White Oak	10	Pole	6		Michigan Holly	Low	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	20	Pole/Sapling	6		Swamp White Oak	Low	5 - 10 feet	5 - 10 feet
Red Maple	65	Pole	6	33	Tag Alder	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	5	Pole	7					

243 6119 - Mixed Lowland Deciduous Forest Poletimber Medium 10.1 33 51-80 N/A Harvested February of 1993 under contract number 73-007-88-01 Carroll Creek Grouse. Stand is slowly filling in with maple and mixed oak. There are a few upland ridges. Multiple lowland drains bisecting stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	15	Pole	6	33	Swamp White Oak	Low	5 - 10 feet	5 - 10 feet
Swamp White Oak	15	Pole/Sapling	6	33	Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Paper Birch	5	Sapling	3	33	Northern Pin Oak	Low	5 - 10 feet	5 - 10 feet
Red Maple	40	Pole/Sapling	6	33	Michigan Holly	Medium	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	25	Pole/Sapling	6					

244 6119 - Mixed Lowland Deciduous Forest Poletimber Well 6.6 33 51-80 N/A Harvested February of 1993 under contract number # 73-045-89-01 Carroll Creek Access harvested Feb. of '93. This area regenerated better than the rest of the cut unit most likely due to its proximity to the water table. Tapers to upland toward the south.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	20	Pole	6		Serviceberry (Juneberry)	Low	5 - 10 feet	5 - 10 feet
Paper Birch	5	Pole/Sapling	5		Musclewood/Hornbeam	Low	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	15	Pole	7		Michigan Holly	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen	10	Pole	6					
Red Maple	50	Pole	6	33				

245 6119 - Mixed Lowland Deciduous Forest Poletimber Poor 7.3 36 1-50 N/A Harvested February of 1989 under contract number 73-007-88-01 Carroll Creek Grouse. Stand is a transition area between upland said ridge and true wetland. Knoll/cradle topography with dense lowland brush understory. Stand is predominantly lowland with scattered knobs high enough to rescuescattered knobs high enough to regenerate trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Pole	7	36	Blueberry/Bilberry/Cranberry	Medium	5 - 10 feet	5 - 10 feet
Red Maple	35	Pole/Sapling	6	36	Michigan Holly	High	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	45	Pole/Sapling	7	36				
Paper Birch	10	Pole/Sapling	5	36				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
246	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	6.2	36	81-110	N/A	Lowland hardwood stand with a large component of paper birch. Harvested February of 1989 under contract number 73-007-88-01 Carroll Creek Grouse.																																																	
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247	4131 - Aspen, Oak	Sapling Well	7.5	28	Immature	N/A	Part of sale number 73-015-97-01 Donut Trail Sale. Minimum piece utilization except did not cut oak. Forested drain bisects stand east and west.																																																	
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248	4131 - Aspen, Oak	Poletimber Well	19.4	42	81-110	N/A	Several low drainages bisect the stand running west to east, 25% lowland with winterberry/moss. Ground cover bracken, winterberry, moss. Habitat cut (W73-216) completed December of 1984. BA was 50 sq. ft. Stem density varies across stand with the lowest density on higher sand ridges and low hummocky ground.																																																	
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249	310 - Herbaceous Openland	None	5.4			No	Stand was harvested with stands to the north and west. Did not regenerate. High sand ridge.																																																	
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250	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	7.2	33	Immature	N/A	The soil under the stand is a mix of Kingsville loamy fine sand and Pipestone sand. Harvested February of 1993 under contract number 73-007-88-01 Carroll Creek Grouse. Stand swamped out after harvest but appears to be slowly filling in.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
251	6220 - Alder/Willow	None	1.0			No	Low depression surrounded by upland ridges. Standing water present at time of inventory.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Medium	5 - 10 feet	5 - 10 feet	
								Buttonbush	Medium	5 - 10 feet	5 - 10 feet	
								Willow spp.	Low	5 - 10 feet	5 - 10 feet	
252	4125 - Black, N. Pin Oak	Poletimber Medium	3.5	33	51-80	N/A	Harvested February of 1993 under contract number 73-007-88-01 Carroll Creek Grouse. Only oak regenerated.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	10	Pole	7	
								Red Maple	5	Log/Pole	12	
								Black/Red (Hybrid) Oak	85	Pole	9	33
Sub-Canopy Species	Density	Avg. Height	Size									
Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet									
Witch Hazel	Low	5 - 10 feet	5 - 10 feet									
Northern Pin Oak	Medium	>20 feet	>20 feet									
253	4125 - Black, N. Pin Oak	Sawtimber Medium	5.7	58	51-80	N/A	Stand sits on a sand ridge surrounded by low ground. A spill way in located at the north end of the stand connecting adjacent low areas. Trace of aspen.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Paper Birch	2	Pole	7	
								Red Maple	15	Log/Pole	14	58
								Black/Red (Hybrid) Oak	83	Log	15	58
Sub-Canopy Species	Density	Avg. Height	Size									
Black/Red (Hybrid) Oak	Low	10 - 20 feet	10 - 20 feet									
Black Cherry	Low	5 - 10 feet	5 - 10 feet									
Witch Hazel	Medium	5 - 10 feet	5 - 10 feet									
254	6233 - Wet Meadow	None	1.1			No	Low grass area.					
255	330 - Low-Density Trees	None	1.8			No	2020 Sale Closure Comments: New stand. Stand removed from stand 123 during sale closure and re-coded as non-forested. This area was identified under site condition 5A - unable to obtain desirable regeneration during sale prep.					
256	6112 - Lowland Aspen	Poletimber Well	10.2	51	81-110	N/A	Stand was removed from original stand 122 because of too wet soil conditions. Lowland stand with island of higher ground. Stand holds water during the wet season. Cradle knoll topo throughout stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	45	Pole	7	51
								Bigtooth Aspen	15	Pole	9	51
								Red Maple	30	Log/Pole	10	51
Black/Red (Hybrid) Oak	10	Log/Pole	10									
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Medium	10 - 20 feet	10 - 20 feet									
Northern Pin Oak	Low	5 - 10 feet	5 - 10 feet									
257	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	5.2	33	1-50	N/A	Cut the same time as the stand to the south. Stand is filling in with maple and swamp white oak. Forested drain flows through the southern 1/3rd of the stand. Part of sale # 73-045-89-01 Carroll Creek Access harvested Feb. of '93.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	50	Pole/Sapling	6	33
								Paper Birch	5	Pole/Sapling	5	
								Quaking Aspen	10	Pole	5	
Swamp White Oak	25	Pole/Sapling	5									
Black/Red (Hybrid) Oak	10	Pole/Sapling	6									
Sub-Canopy Species	Density	Avg. Height	Size									
Michigan Holly	High	5 - 10 feet	5 - 10 feet									
Tag Alder	Medium	5 - 10 feet	5 - 10 feet									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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258 4139 - Aspen, Mixed Deciduous Sawtimber Well 6.1 80 111-140 N/A Upland ridge / island surrounded by lowland ground. The stand will not regenerate if cut alone. Recommend to hold stand and harvest once nearby upland stands are ready.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	40	Log/Pole	14	80
Red Maple	45	Log/Pole	13	80
White Oak	5	Log/XLog	17	
Black/Red (Hybrid) Oak	10	XLog/Log	18	

259 4199 - Other Mixed Upland Deciduous Sapling Medium 15.4 6 Immature N/A Stand has patchy regeneration of mixed hardwoods & meets minimum stocking levels. Majority of stems in regeneration survey are aspen. Oak TPA will increase as saplings make it past browse height.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	1	Log/Pole	12	66
Paper Birch	2	Pole/Log	8	66
Black/Red (Hybrid) Oak	10	Log/Pole	12	66
Red Maple	15	Log	15	66
Bigtooth Aspen	30	Sapling	1	6
Black/Red (Hybrid) Oak	22	Sapling	1	
Red Maple	20	Sapling	1	

2021 Sale Closure: Seed tree harvested under contract 73-010-18, Culvert City Harvest, in the fall of 2020. 20 sqft of aspen/oak/mixed hardwood residual was left.

260 6119 - Mixed Lowland Deciduous Forest Sapling Poor 1.3 21 Immature N/A Harvested in September 2005. This pocket was separated from adjacent stand to the East and South. Heavy to swamp white oak and thicket.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	43	Sapling/Pole	3	21
Bigtooth Aspen	1	Pole	5	
Swamp White Oak	41	Pole/Sapling	5	
Black/Red (Hybrid) Oak	15	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Willow spp.	Medium	< 5 feet	< 5 feet
Michigan Holly	Medium	5 - 10 feet	5 - 10 feet

261 6114 - Lowland Oak Poletimber Poor 4.6 33 51-80 N/A Harvested February of 1993 under contract number 73-007-88-01 Carroll Creek Grouse. This portion of the sale sits on a sand ridge and is dominated by aspen clones. The oak regeneration is heavier in the north end.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	15	Pole	7	
Swamp White Oak	10	Pole/Sapling	6	
Paper Birch	5	Sapling	3	
Red Maple	20	Pole/Sapling	6	
Black/Red (Hybrid) Oak	40	Pole/Sapling	6	33
White Oak	10	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Swamp White Oak	Low	5 - 10 feet	5 - 10 feet
Michigan Holly	Medium	5 - 10 feet	5 - 10 feet
Northern Pin Oak	Low	5 - 10 feet	5 - 10 feet

262 6119 - Mixed Lowland Deciduous Forest Poletimber Poor 7.7 33 51-80 N/A Harvested February of 1993 under contract number 73-007-88-01 Carroll Creek Grouse. Stand is slowly filling in with swamp white oak and red maple.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	15	Pole	6	
Swamp White Oak	30	Pole/Sapling	6	33
Paper Birch	5	Sapling	3	
Red Maple	35	Pole/Sapling	6	33
Black/Red (Hybrid) Oak	15	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Swamp White Oak	Low	5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Michigan Holly	Medium	5 - 10 feet	5 - 10 feet



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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263 6113 - Lowland Maple Sawtimber Well 14.1 54 111-140 N/A Multi polygon stand that was split out from adjacent Culvert City Harvest. These portions are lowland maple with a minor mixed deciduous component not conducive to commercial harvest. The aspen is falling out of the canopy and being replaced by maple.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	75	Log	14	54
Black/Red (Hybrid) Oak	15	Log/XLog	16	
Bigtooth Aspen	10	Log	14	

264 4112 - Maple, Beech, Cherry Association Sawtimber Medium 4.8 87 51-80 N/A Upland knob surrounded by lowland. Mostly maple with a small component of aspen and oak.

Canopy Species	% Cover	Size Class	DBH	Age
Swamp White Oak	5	Log/Pole/XLog	11	
Red Maple	85	Log/Pole	15	87
Bigtooth Aspen	5	Log	13	
Black/Red (Hybrid) Oak	5	Log	16	

265 6229 - Mixed Lowland Shrub None 1.1 No Part of sale number 73-020-85-01 Jigsaw, minimum piece utilization all species, harvested late summer 1988. This pocket has transitioned to a lowland thicket.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Michigan Holly	Medium	5 - 10 feet	5 - 10 feet
Red Maple	Low	>20 feet	>20 feet

266 6119 - Mixed Lowland Deciduous Forest Poletimber Medium 1.4 51 51-80 N/A Lowland drain dominated by red maple and oak poles.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole/Log	9		Black Cherry	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	5	Pole	8		Red Maple	Medium	>20 feet	>20 feet
Black/Red (Hybrid) Oak	35	Log/Pole	10		Black/Red (Hybrid) Oak	Low	10 - 20 feet	10 - 20 feet
Red Maple	40	Pole/Log	8	51	Paper Birch	Low	>20 feet	>20 feet
Swamp White Oak	10	Pole/Log	9		Michigan Holly	Medium	5 - 10 feet	5 - 10 feet
Paper Birch	5	Pole	6					