



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72064

Entry Year 2025

Acreage: 3,226

County Alcona

Management Area: High Sand Plains

Stand Examiner: Trevor Kubitskey

Legal Description:

T25N R08E Sections 25, 36

T25N R09E Sections 8, 17, 19, 20, 28-33

Identified Planning Goals:

To maintain riparian and forest health, structural and species diversity, and overall productivity while providing for sustainable multiple uses.

Soil and topography:

The compartment's considerable lowland acreage occurs on saturated organic soils such as Lupton, Tawas and Leafriver mucks. Two series representative of the compartment's more productive upland sites are Coppler loamy sand and the Zimmerman-Annalake complex. AuGres, East Lake and Croswell sands are common across the south half of the compartment.

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

Adjacent private lands support both year-round residential and seasonal recreation use. A golf course borders the compartment's south edge. Two National Forest parcels adjoin state land near the Cedar Lake Swamp complex.

Unique Natural Features:

Two natural communities were identified within the compartment: a Northern Shrub Thicket and a Northern Wet Meadow. There is the potential for dry prairie plants to occur in upland openings, and for uncommon plants and animals to occur in the lowlands and riparian areas.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

The Pine River - a cold water stream Special Conservation Area - crosses through the compartment's west edge.

Watershed and Fisheries Considerations:

The compartment is within the Pine River watershed and contains associated tributaries. Beaver activity along those smaller streams has created ponds with fluctuating water levels.

Wildlife Habitat Considerations:

The compartment's wide variety of cover types – ranging from upland pine, aspen and oak, to conifer swamp, lowland brush and super-canopy stature pine -- provide habitat for many game and non-game wildlife species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact outwash sand and gravel, lacustrine (lake) sand and gravel and fine-textured glacial till. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale. Gravel pits are located to the west and north and potential appears to be good on the upland areas. This compartment is not leased for oil and gas development.

Vehicle Access:

Direct county road access is by way of Wissmiller, Barlow, Poor Farm and Kings Corner roads. Access is limited to the compartment's Cedar Lake Swamp area. Upland stands in the south half of the compartment have decent access, with the exception of sections 28 and 33; the only trail roads there cross private property.

Survey Needs:

The following survey work is needed: Section 28, 1/16 corners 5, 11, and 12.

Recreational Facilities and Opportunities:

The compartment contains no developed sites or designated trails, but dispersed recreation opportunities include hunting, fishing, trapping, and wildlife viewing.

Fire Protection:

Access to the compartment's upland pine types is good. Nearby water sources include the Pine River and associated tributaries.

Additional Compartment Information:

The following reports from the Inventory are attached:

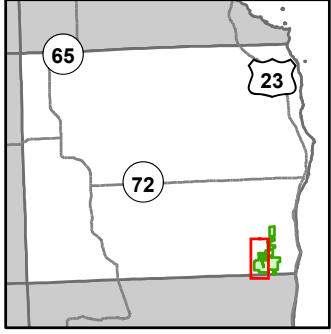
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

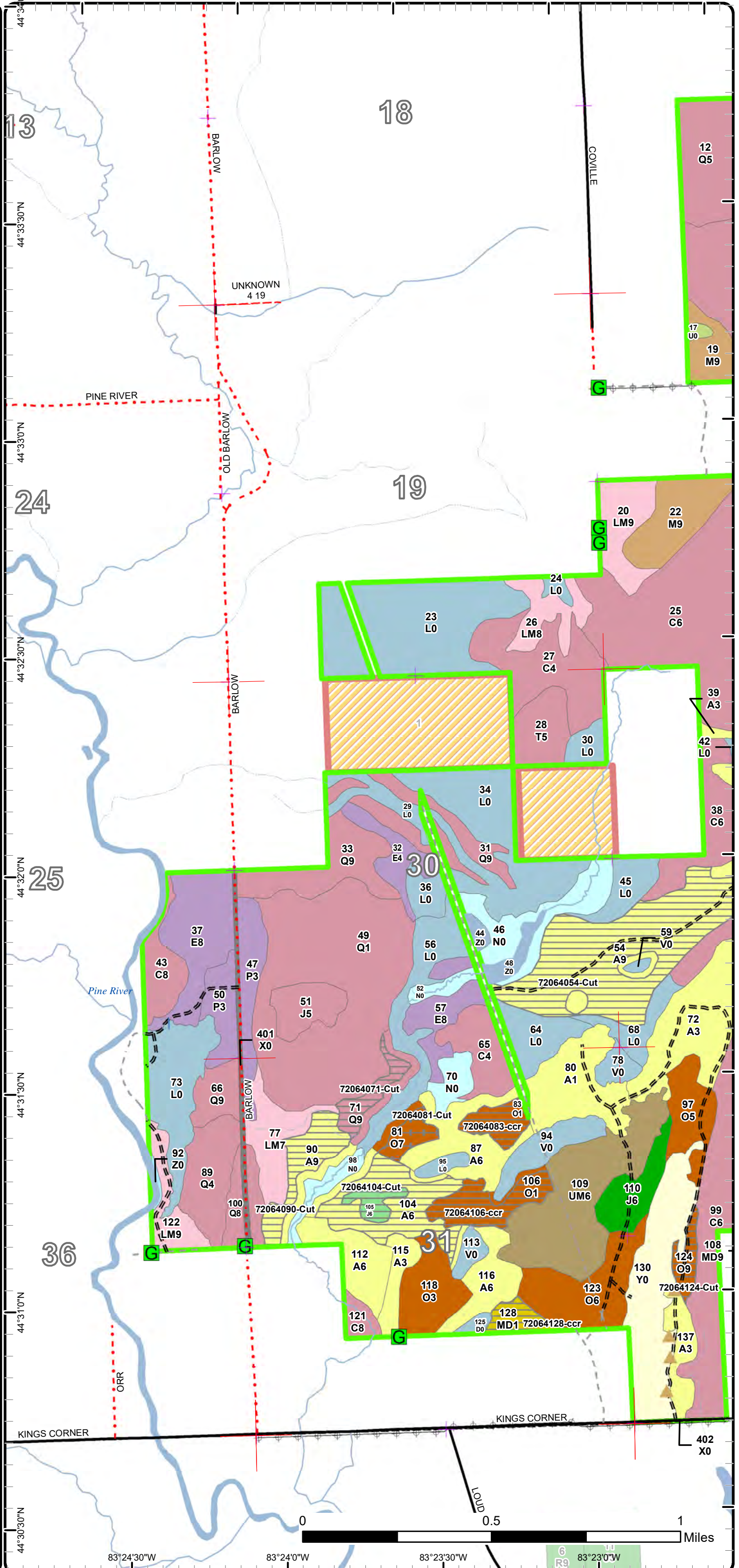
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 64
 T25N, R09E
 Sec. 08, 17, 19-20, 28-33
 T25N, R08E Sec. 25, 36
 County: Alcona
 Unit: Grayling
 Mgmt Area: High Sand Plains
 YOE: 2025
 Acres: 3225.8 GIS Calculated
 Examiner: Trevor Kubitskey
 Map Revised: 11/27/2023
 Map Phase: Post-Maps



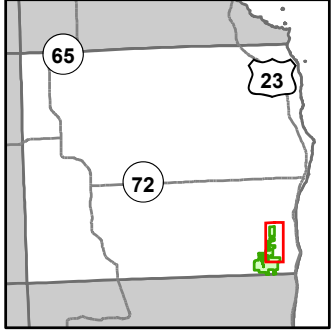
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Gate
- Culvert
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
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- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil



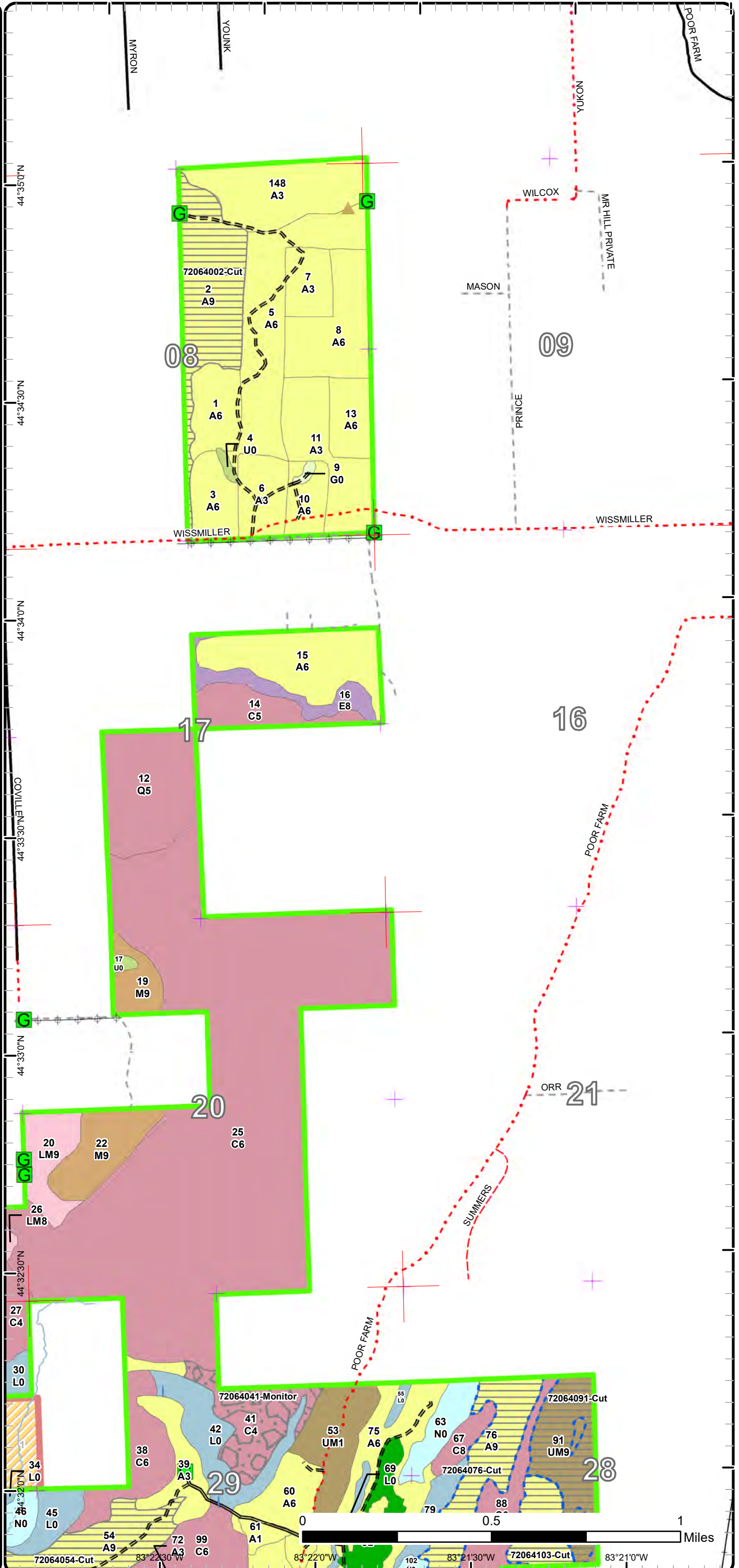
44°30'00"N 83°24'30"W 83°24'0"W 83°23'30"W 83°23'0"W
 0 0.5 1 Miles

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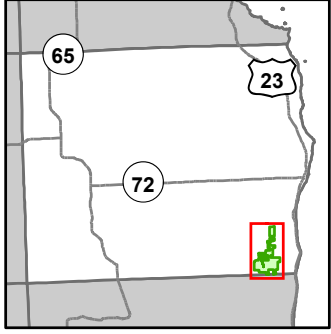


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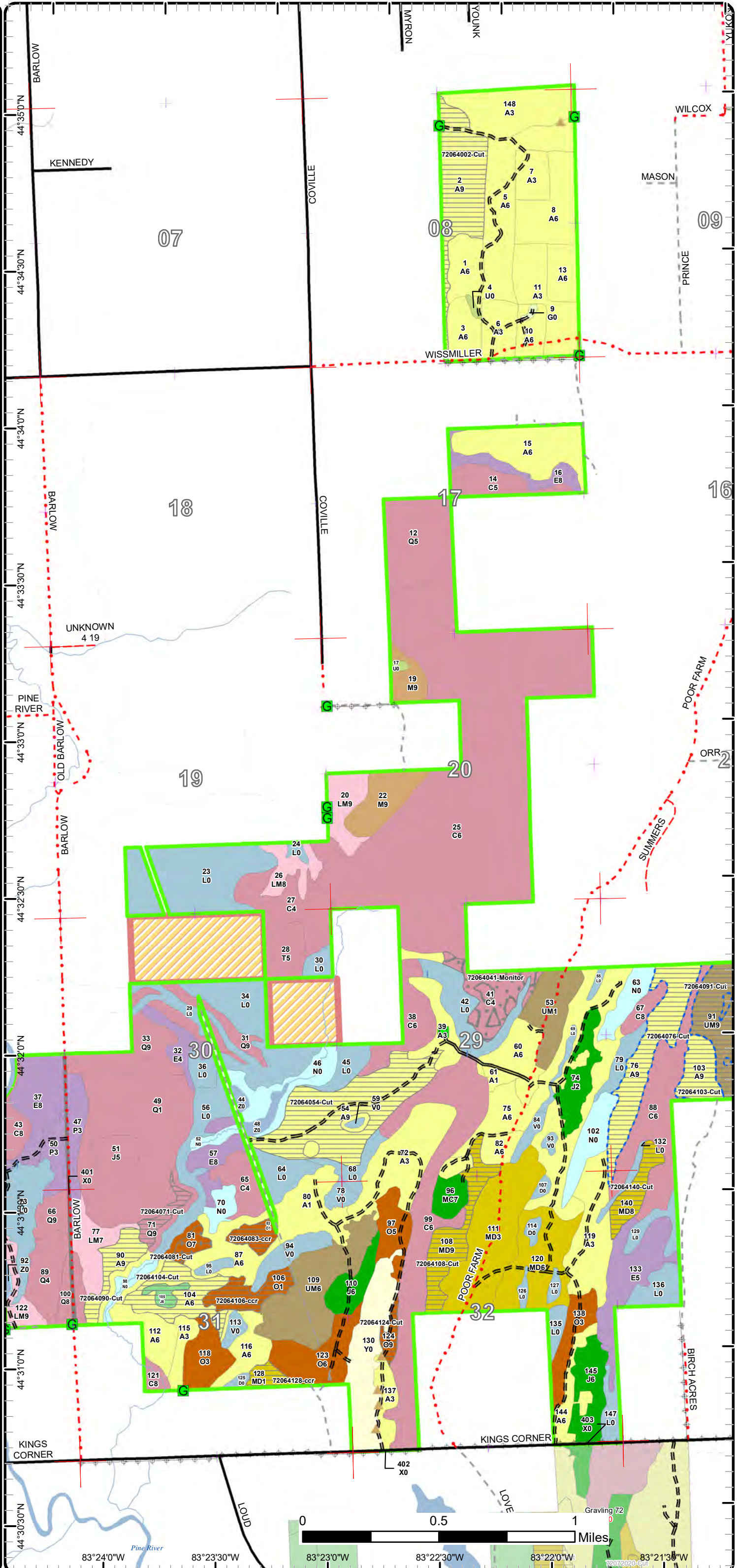


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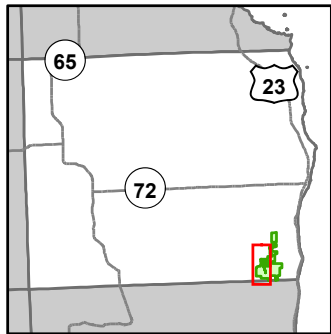


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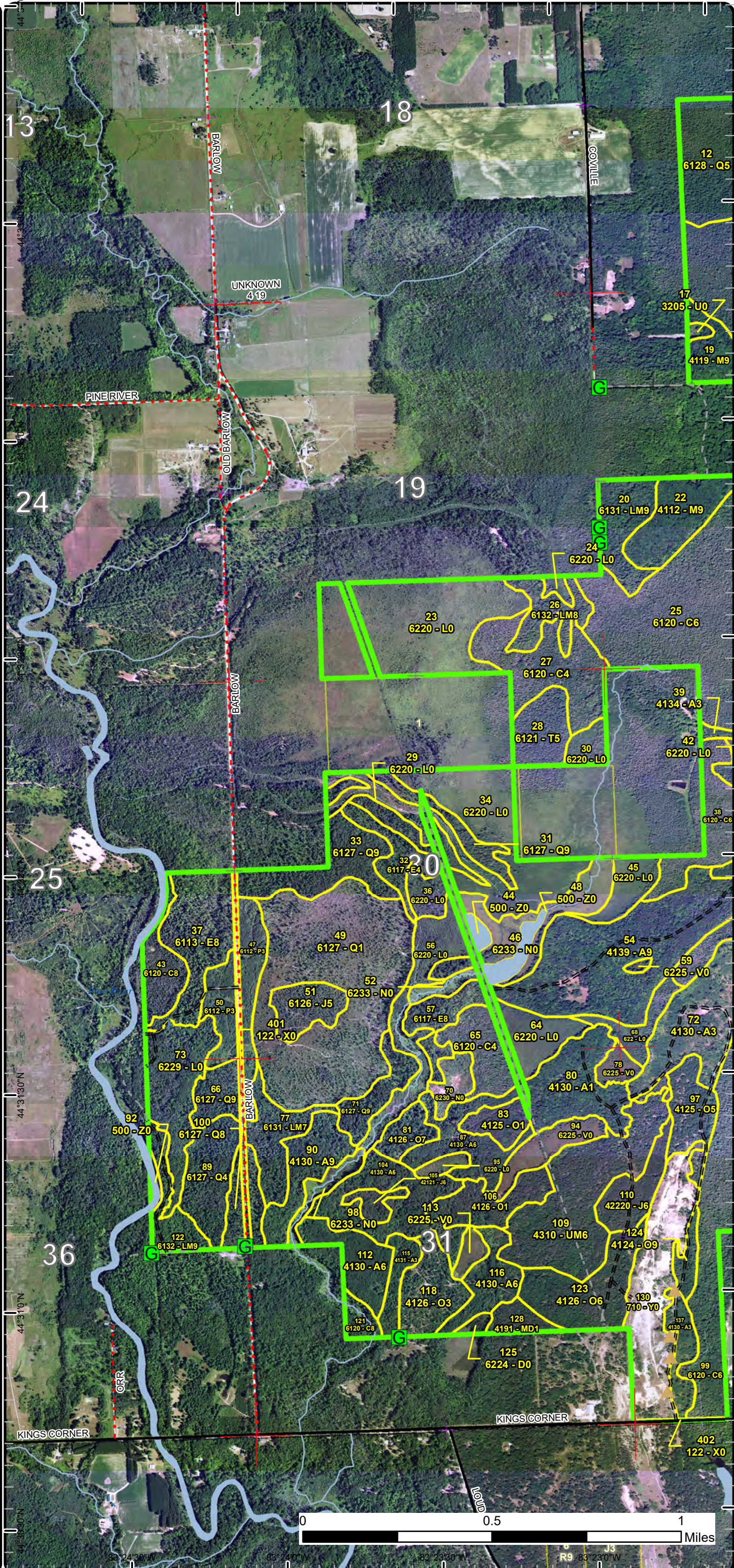


Stand Boundary Map

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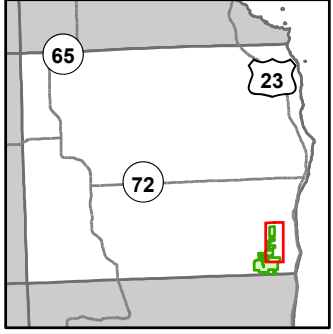
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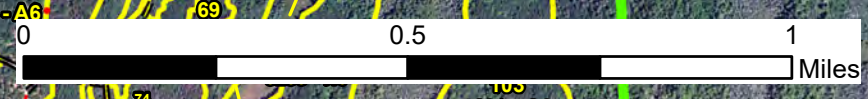
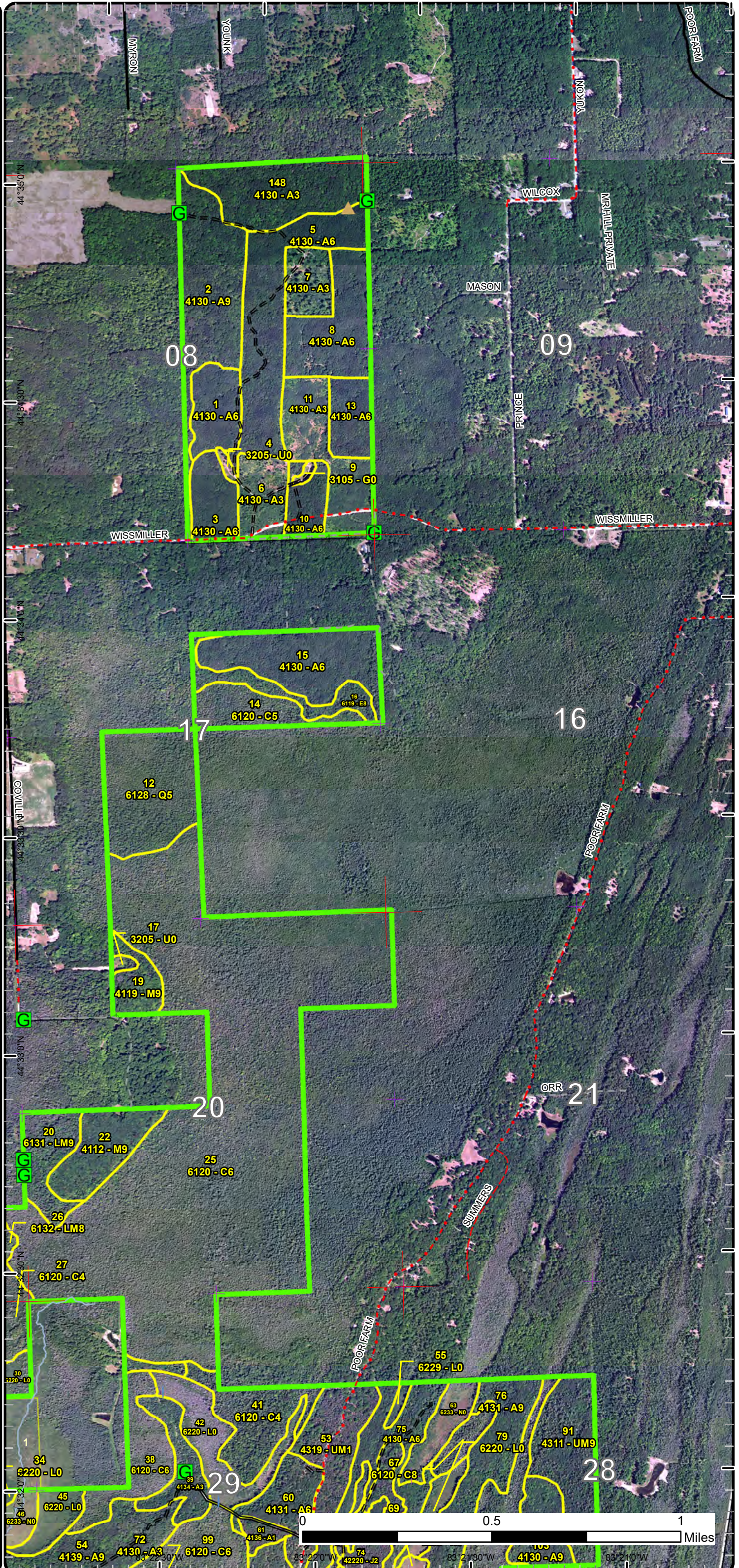
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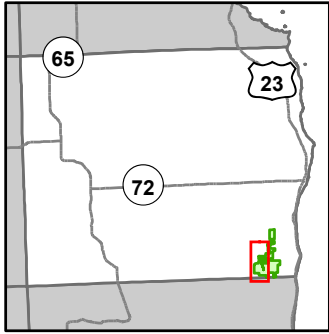


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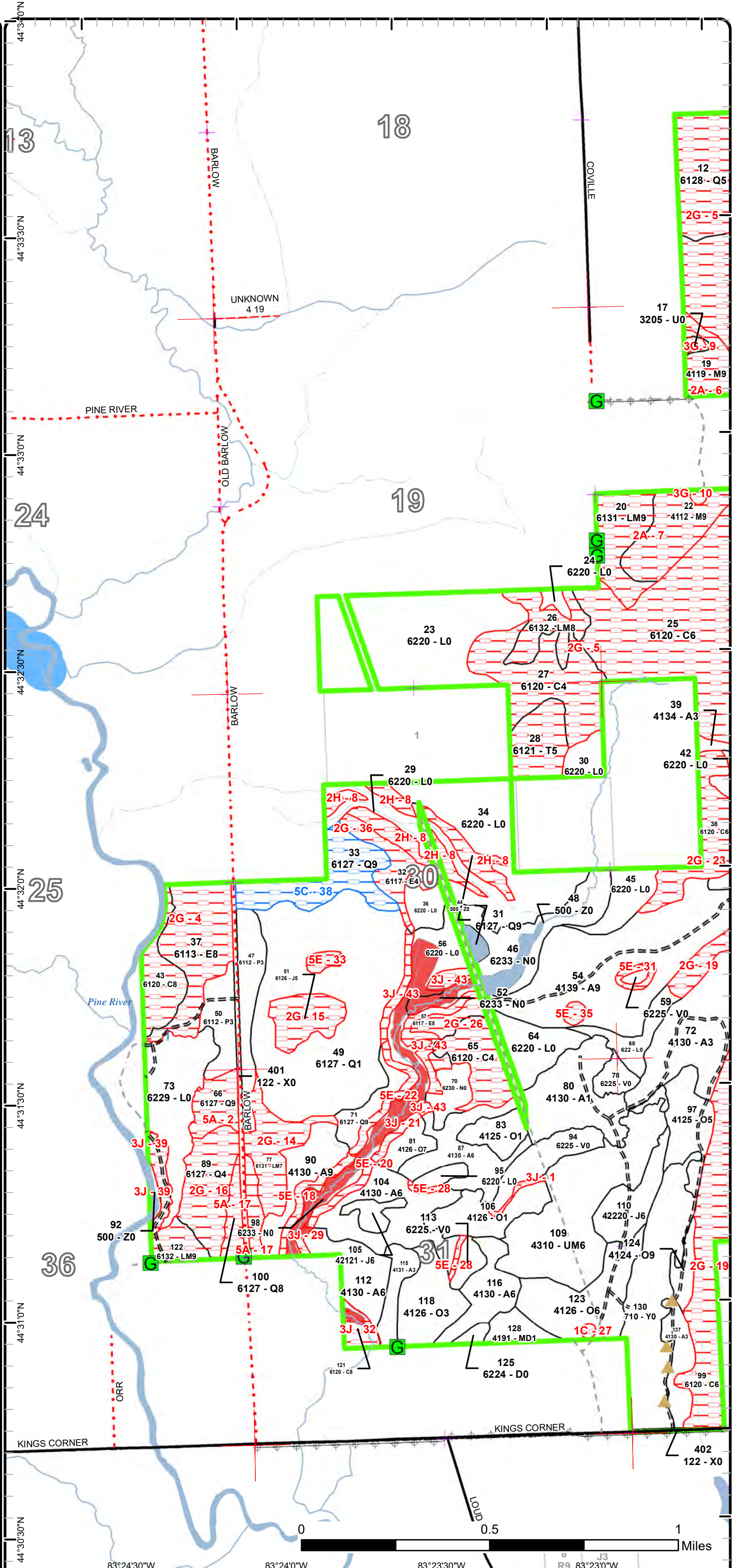


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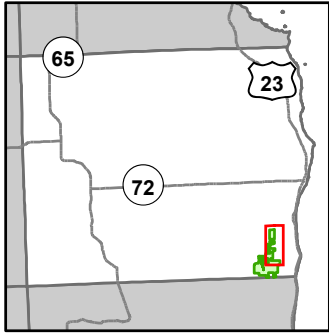


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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

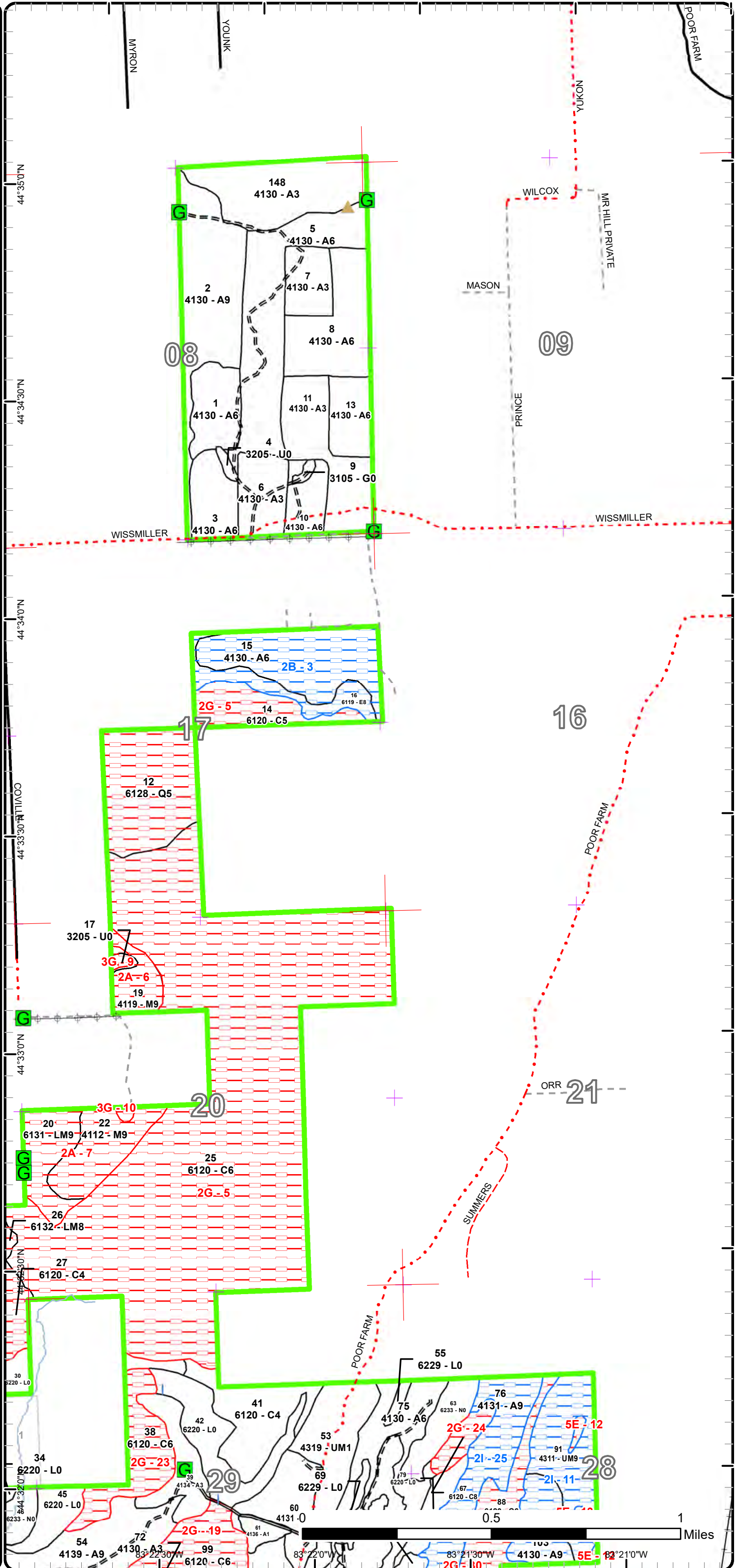


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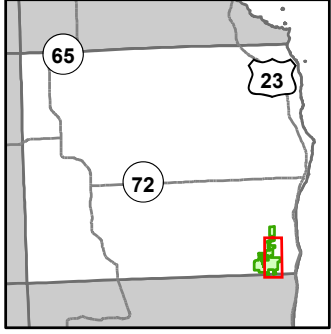


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- Available w/ Constraints
- 2I: Survey needed
- Unavailable
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 3G: Other Influence zones - See comments
- 5E: Long-Term Retention
- Stand Boundaries

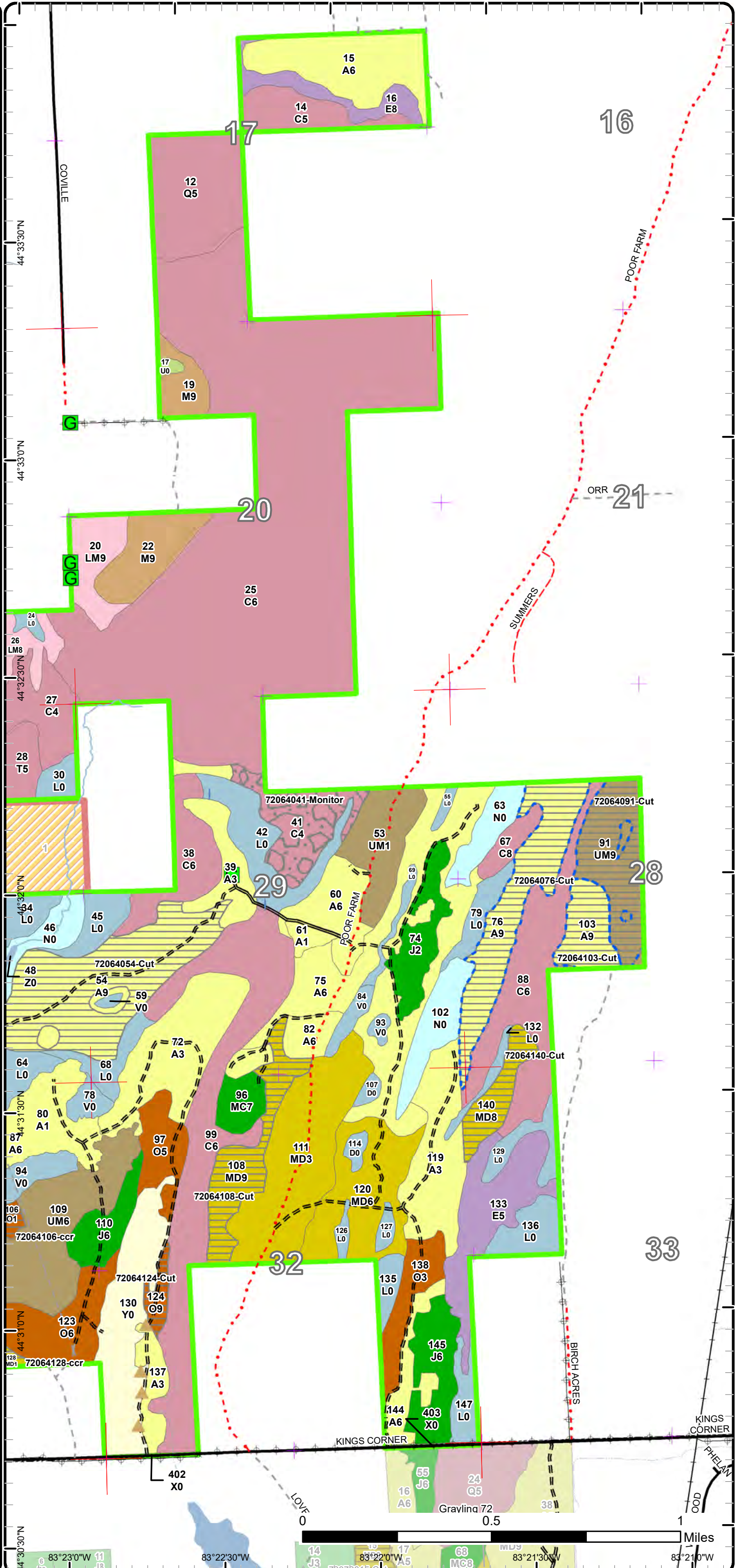


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Report 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit

Compartment 64

Year of Entry 2025

Trevor Kubitskey : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	80	165	137	285	33	201	21	0	0	0	0	0	0	0	0	0	0	921
Bog	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Cedar	0	0	0	0	0	0	0	0	0	0	0	431	61	18	143	57	6	0	715
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Jack Pine	0	21	0	0	40	0	0	19	0	0	0	0	0	0	0	0	0	0	80
Lowland Aspen/Balsam Poplar	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Conifers	0	0	116	0	0	0	0	0	95	38	0	0	12	14	0	0	0	0	273
Lowland Deciduous	0	0	0	0	0	0	13	40	0	17	15	34	0	0	0	0	0	0	119
Lowland Mixed Forest	0	0	0	0	0	0	0	0	35	0	0	0	20	15	0	0	0	0	69
Lowland Shrub	343	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	343
Marsh	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78
Mixed Upland Deciduous	0	0	75	0	44	0	0	0	16	0	0	30	0	0	0	0	0	0	165
Natural Mixed Pines	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	11
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	38	0	0	0	0	0	38
Oak	0	0	67	0	49	0	0	0	0	0	0	15	0	0	0	0	0	0	131
Sand, Soil	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	17
Treed Bog	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Mixed Forest	0	28	0	0	59	0	0	0	0	0	0	0	0	39	0	0	0	0	126
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	533	129	453	137	477	33	214	80	157	55	15	510	131	103	143	57	6	0	3227



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 64

Total Compartment Acres: 3,226

Commercial Harvest - 280
 Harvests with Site Condition - 102
 Next Step Harvest - 33
 Habitat Cut - 33

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	241	0	0	0	0	0	0	0	0	241
Jack Pine	5	0	0	0	0	0	0	0	0	5
Lowland Conifers	8	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	53	0	0	0	0	0	0	0	0	53
Oak	32	0	0	0	0	7	0	0	0	38
Upland Mixed Forest	36	0	0	0	0	0	0	0	0	36
Total	375	0	0	0	0	7	0	0	0	381

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	381	0	0	0	0	30	0	0	0	411
Next Step	33	0	0	0	0	348	0	0	0	381
Total	414	0	0	0	0	378	0	0	0	793



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

2	72064002-Cut	51.6	4130 - Aspen	Sawtimber Well	54	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh. Follow standard retention guidelines. Cut the pan handle along pvt that was left last harvest down to</p> <p><u>Specs:</u> Wissmiller Rd. Consider green marking oaks greater than 26" since there's quite a bit of x-log oaks scattered throughout. Include shrub protection and drumming log specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen objective. Accept oak, maple, and pine as well.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
41	72064041-Monitor	29.9	6120 - Lowland Cedar	Poletimber Poor	104	1-50	Monitoring	Natural Regen (Re-Inventory)	6139 - Mixed Lowland Forest	Two-Aged	No
<p><u>Prescription</u> Stand needed more time to meet regeneration objectives. Check regen again during 2035 inventory cycle.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of Northern white cedar, hemlock, white pine, beech oak, red maple, paper birch and balsam fir to a fully stocked stand.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2034</p>											
54	72064054-Cut	79.7	4139 - Aspen, Mixed Deciduous	Sawtimber Well	59	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh except do not cut hemlock or cedar. A tree length buffer around bog (stand 59) has been drawn in using aerial imagery and designated as long-term retention. Include grouse drumming log and shrub protection specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen objective. Oak, maple, and conifer are also acceptable species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Long-term retention in the south west is protecting some foundation holes (100' buffer). Access stand via the 2 track that crosses through</p> <p><u>Comment:</u> stand 99 and protect existing culvert in road with crane mats, gravel, or a combination of the two.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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
71 72064071-Cut	8.1	6127 - Lowland Pine	Sawtimber Well	123	141-170	Harvest	Clearcut with Retention	6119 - Mixed Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all merchantable stems except, do not cut cedar or hemlock. Retention has been designated as 100' buffer for Cedar Lake Complex ERA Northern Shrub Thicket and Northern Wet Meadow as well as residual legacy pines, hemlock, and cedar. Protect advanced regeneration.</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> Any mix of aspen, maple, or conifer will be acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Harvest with adjacent stand 90.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
76 72064076-Cut	47.0	4131 - Aspen, Oak	Sawtimber Well	50	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh. Follow standard retention guidelines. Include grouse drumming log and shrub protection specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen objective. Oak, maple, and conifer will also be accepted spp.</p> <p><u>Regen:</u></p> <p><u>Other</u> Harvest stands 91 and 103 in same timber sale. NE corner of stand 91 needs to be established for north pvt line.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
81 72064081-Cut	6.7	4126 - White, Black, N. Pin Oak	Sawtimber Poor	104	1-50	Harvest	Overstory Removal	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all merchantable stems. Retention has been designated as 100' buffer for Cedar Lake Complex ERA Northern Shrub Thicket and Northern Wet Meadow. Protect the advanced regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen regen was established through previous harvest and is the primary objective. Pine and oak will also be acceptable species.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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83	72064083-ccr	9.1	4125 - Black, N. Pin Oak	Sapling Poor	10	Immature	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Final harvest with reserves: 2" & up except leave the oak, WP and the sapling aspen.

Specs:

Next Step Harvest, Clearcut with Retention

Treatments:

Acceptable A mix of aspen, jack pine and mixed hardwood regeneration is acceptable.

Regen:

Other Comment: The reserves are the designated leave species. Additional area-based island retention will not be applied. Note that at time of inventory, LOTS records did not show State ownership of the adjacent RR grade. Old next step comments: Natural regen survey. Will accept a mix of the current species.

Site Condition

Proposed Start Date: 10/1 /2014

90	72064090-Cut	16.3	4130 - Aspen	Sawtimber Well	64	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Specs: Harvest all stems greater than 2" dbh. Retention has been designated as 100' buffer for Cedar Lake Complex ERA Northern Shrub Thicket and Northern Wet Meadow. Do not cut cedar or hemlock. Include drumming log spec. Additional retention may be placed on drainage in the north if needed. Include crane mat spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen objective. Accept maple, oak, and conifer as well.

Regen:

Other Comment: Harvest with stand 71.

Site Condition

Proposed Start Date: 10/1 /2024

91	72064091-Cut	36.3	4311 - Pine, Aspen Mix	Sawtimber Well	127	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Specs: Harvest all stems greater than 2" dbh except, do not cut cedar. Green mark pine greater than 26" dbh. Retention has been drawn around a cedar/alder lowland in the north and a wet lowland in the southeast. In addition, a 1 chain retention island around stick nest has been drawn in as well. Have WL assess nest during layout to see if active and follow raptor guidelines. Include grouse drumming log and shrub protection specs.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen objective. Oak, pine, and maple will be acceptable spp as well.

Regen:

Other Comment: NE, SE, SW corners need survey. Access through private must be obtained by purchaser or access through stand 88. Include crane mat spec. Harvest with stands 76 and 103 in same timber sale.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024



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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
103 72064103-Cut	18.3	4130 - Aspen	Sawtimber Well	50	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh. Follow standard retention guidelines. Include grouse drumming log and shrub protection specs. <u>Specs:</u> Harvest stands 91 and 103 in same timber sale.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen objective. Oak, maple, and conifer will also be accepted spp.</p> <p><u>Other Comment:</u> Access through private needs to be obtained by purchaser or access through stand 88 cedar swamp. Include crane mat spec. Harvest with stands 91 and 76 in same timber sale. Survey needed for south pvt boundary.</p> <p><u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2024</p>										
104 72064104-Cut	27.9	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" DBH. Retention has been designated as 100' buffer for Cedar Lake Complex ERA Northern Shrub Thicket and Northern Wet Meadow. Put a tree length buffer around bogs (stands 95 and 113). Green mark the wide crown oaks greater than 26". <u>Specs:</u> Include drumming log and shrub protection specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen objective. Oak, maple, and conifer will also be acceptable species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										
105 72064105-Cut	5.2	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	63	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh. No retention due to size of stand and declining jack pine. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mixed upland deciduous with minimum 25% oak. Aspen, maple, pine acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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106	72064106-ccr	16.5	4126 - White, Black, N. Pin Oak	Sapling Poor	10	1-50	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Specs: Final harvest with reserves: 2" & up except leave the oak, WP & naturally-established RP. Cut the half-dozen rows of RP planted in the east end.

Next Step Treatments: Harvest, Clearcut with Retention

Acceptable Regen: Will accept a mix of natural pine, aspen, and mixed hardwood regeneration to a moderate stocking level.

Other Comment: The reserves are the designated leave species. Additional area-based island retention will not be applied. Note that at time of inventory, LOTS records did not show State ownership of the adjacent RR grade. 11/8/18 - after prescribed we learned the RR row is owned by twp. Need to try to obtain ownership from Twp or get an agreement to use as this is access rte to stand and adj state land. Old next step comments: Natural regen survey. Will accept a mix of the current species, with pockets of lower stocking expected where the current tree cover is sparse.

Site Condition

Proposed Start Date: 10/1 /2014

108	72064108-Cut	29.8	4199 - Other Mixed Upland Deciduous	Sawtimber Well	100	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Specs: Harvest all stems greater than 2" dbh. Follow standard retention guidelines. Leave tops on stumps to deter deer browse. Include shrub protection spec.

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

Acceptable Regen: Mixed upland deciduous goal with 10-20% oak. Accept any combination of oak, aspen, maple, and conifer.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

124	72064124-Cut	6.0	4124 - Red with White Oak	Sawtimber Well	102	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Specs: Harvest all stems greater than 2" except do not cut cedar. No retention due to small stand size and to maximize regeneration. Leave tops on stumps to deter deer browse. Include shrub protection spec.

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

Acceptable Regen: Mixed upland deciduous objective with minimum 25% oak. Aspen, maple, and conifer will also be acceptable species.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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
128 72064128-ccr	7.3	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	15	1-50	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest with reserves: 2" & up except leave the oak, WP & RP. <u>Specs:</u> <u>Next Step</u> Harvest, Clearcut with Retention <u>Treatments:</u> <u>Acceptable</u> A mix of natural regen of aspen, mixed pine, and mixed hardwoods from medium to full stocking is acceptable. <u>Regen:</u> <u>Other</u> Depending on ground conditions at the time of sale prep, may exclude the sub-acre patch of naturally-established JP in the stand's west end that extends down onto the bog. The reserves are the designated leave species. Additional area-based island retention will not be applied. <u>Comment:</u> 11/8/18- after prescription we learned the RR ROW is owned by Twp and this is primary access to this area. We need to pursue acquisition of ROW from twp or form an access agreement before setting up sale. Old next step comments: Natural regen survey. Will accept a mix of the current species. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2014</p>										
140 72064140-Cut	15.5	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	70	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh. Follow standard retention guidelines. Include shrub protection spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mixed upland deciduous goal. Accept any combination of oak, aspen, maple, and conifer. Accept poor stocking in areas due to sparse overstory in places. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										

Total Treatment Acreage Proposed: 411.2

Report 4 – Site Conditions

Grayling Mgt. Unit

Compartment: 64

Trevor Kubitskey : Examiner

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions											
		With Condition			2B	2I	5C	1C	2A	2G	2H	3G	3J	5A	5E	
920	794	109		17	Aspen	44	65							2		15
32	32	0		0	Bog											
715	30	0		685	Cedar				0	679			6			
1	1	0		0	Herbaceous Openland											
80	66	0		14	Jack Pine					14						
30	30	0		0	Lowland Aspen/Balsam Poplar											
274	117	27		129	Lowland Conifers			27		72	22		4	23	8	
114	0	15		98	Lowland Deciduous	15				93			5			
70	0	0		70	Lowland Mixed Forest				20	43			7			
343	343	0		0	Lowland Shrub								0		0	
78	78	0		0	Marsh								0		0	
164	164	0		0	Mixed Upland Deciduous											
11	11	0		0	Natural Mixed Pines											
38	0	0		38	Northern Hardwood				37			1				
131	125	0		6	Oak				1				4		1	
48	48	0		0	Sand, Soil											
17	0	0		17	Tamarack					17						
7	7	0		0	Treed Bog											
126	87	36		2	Upland Mixed Forest		36									2
3	1	0		2	Upland Shrub				0			1				
10	10	0		0	Urban											
9	9	0		0	Water								0			
3,221	1,956	188		1,077	Total Forested Acres	59	102	27	1	57	917	22	3	27	23	27
	61%	6%		33%	Relative Percent											

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Tree length buffer put on bog.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Trevor Kubitskey : Examiner

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Year of Entry: 2025

2	Unavailable	5A: Not able to obtain desirable regeneration	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: No desirable species in the understory and unable to plant due to lowland conditions. Wind throw is also a concern if stand is opened up any more.							
3	Available	2B: Unknown if access through adjacent landowner(s) is possible	59	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Would need permission from adjacent landowner to cut. Hold until stand 15 is ready.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	540	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2A: Adjacent landowner denied access	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Upland hardwoods. Best access would be across adjacent private uplands to the west. Extensive road-building through the large state cedar swamp to the east would be impractical.							
7	Unavailable	2A: Adjacent landowner denied access	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Best access would be across adjacent private uplands to the North. Extensive road-building through the large state cedar swamp to the southeast would be impractical.							

Report 4 – Site Conditions

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Trevor Kubitskey : Examiner

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8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cut off by low swale drainages.							
9	Unavailable	3G: Other Influence zones - See comments	2	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3G: Other Influence zones - See comments	1	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2I: Survey needed	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments: SE and NE pvt corners not established.							
12	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-term retention associated with stand 91.							
13	Unavailable	5E: Long-Term Retention	0	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
Comments: Long-term retention associated with stand 91.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Compartment: 64

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14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5A: Not able to obtain desirable regeneration	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: No desirable species in the understory and unable to plant due to lowland conditions. Wind throw is also a concern if stand is opened up any more.							
18	Unavailable	5E: Long-Term Retention	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Long-term retention for stand 90 and 100' buffer for Cedar Lake Complex ERA Northern Shrub Thicket and Northern Wet Meadow.							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	97	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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20	Unavailable	5E: Long-Term Retention	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Long-term retention for stand 104 and 100' buffer for Cedar Lake Complex ERA Northern Shrub Thicket and Northern Wet Meadow.							
21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100' buffer for Cedar Lake Complex ERA Northern Shrub Thicket and Northern Wet Meadow.							
22	Unavailable	5E: Long-Term Retention	6	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Long-term retention for stand 71 and 100' buffer for Cedar Lake Complex ERA Northern Shrub Thicket and Northern Wet Meadow.							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	2I: Survey needed	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey needed in NE corner of stand 91.							

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Grayling Mgt. Unit

Compartment: 64

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26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	1C: Other dept or div proc/practices	1	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: See locked comments							
28	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Tree length buffer on bogs and long-term retention associated with stand							
29	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
Comments: 100' buffer for Cedar Lake Complex ERA Northern Shrub Thicket and Northern Wet Meadow.							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	97	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-term retention associated with stand 54.							

Report 4 – Site Conditions

Grayling Mgt. Unit

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Compartment: 64

Year of Entry: 2025

32	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Small piece of high ground on the off side of the stream.							
33	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention island left within 2011 harvest area.							
35	Unavailable	5E: Long-Term Retention	2	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: Long-term retention associated with stand 54.							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Aside from transition ground edge, is too wet, with ephemeral drainage.							
38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: Windthrow and rutting are a big concern in stand. A lot of the white pine is just getting saw size and stand would benefit from putting some more diameter growth on.							
39	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: RMZ along Pine River							

Report 4 – Site Conditions

Grayling Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 64

Year of Entry: 2025

42	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Long-term retention associated with stand 138.</p>							
43	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
<p>Comments: 100' buffer for Cedar Lake Complex ERA Northern Shrub Thicket and Northern Wet Meadow.</p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	4130 - Aspen	Poletimber Well	18.5	27	51-80	N/A	Old comments- Was cut 2" & up in 1996 (#056-95). Vigorous BTA & oak. QA less robust, mostly on the lower slopes. Not enough transitioned to pole class to call pole overall, but close. See M.C.s			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		12	Pole	7		Maple Leaved Viburnum		Low	< 5 feet	Tall Shrub
Black/Red (Hybrid) Oak		5	Pole	7		Red Maple		Medium	>20 feet	Sapling
Bigtooth Aspen		80	Pole	7	27	Black Cherry		Low	5 - 10 feet	Tall Shrub
Red Maple		3	Pole/Sapling	5		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub	
2	4130 - Aspen	Sawtimber Well	51.7	54	111-140	N/A	Mature aspen with large diameter oaks scattered through stand. Old comments- Aspen-oak stand w/ paper birch, RM & a scattering of pine. Two+ age classes across main species due to variable cut history: 3 harvests occurred across portions of the stand between 1963 & 1968 (#069-62, 079-66, 045-67). The harvests ranged from merch & up on the A-RM-PB, to 12" & up on the aspen and log & up on the oak except for leaving 5 oak saw per acre for mast. Older aspen cored at 70 years old, but the aspen component regenerated from the harvest is 45-50 years old; the oak has similar immature to overmature components. I did not break out the A-O by age classes. 16" red oak cored at 46 years -- very nice quality, clean-boled 91 feet tall. Some of the oak saw left for mast back in the 60's are massive, open-grown, heavy-limbed specimens. Aspen & oak cover swaps dominance across the stand. The PB occurs in dense patches. The RM is mostly over-sized pulp. Large WP & RP are mostly in the stand's NE. Trace of beech & hard maple. High-end site for aspen-oak.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		70	Log	13	54	Red Maple		Medium	Variable	Sapling
Red Oak		18	XLog/Log	20		Beech		Low	Variable	Sapling
Paper Birch		2	Pole	8						
Red Maple		10	Log/Pole/XLog	12						
3	4130 - Aspen	Poletimber Well	16.3	37	81-110	N/A	Old comments- Was cut 4" & up in 1986 (#014-85). Aspen stand with not all stems transitioned into the pole class. Mostly BTA. Nice NRO stump sprouts; some in the small saw class, most with dominant or co-dominant crowns. Occasional larger oak saw, residual from the harvest. See M.C.s			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		8	Pole	6		Red Maple		Medium	>20 feet	Sapling
Quaking Aspen		15	Pole	8		Maple Leaved Viburnum		Low	< 5 feet	Tall Shrub
Red Oak		5	Pole	8						
Bigtooth Aspen		70	Pole/Log	8	37					
Paper Birch		2	Pole	6						
4	3205 - Mixed Upland Shrub	Nonstocked	1.5			No	Looks like old turn around landing. Old comments- Shallow valley opening with rubus, sweetfern, black cherry and encroaching aspen, oak, WP.			
5	4130 - Aspen	Poletimber Well	56.1	37	111-140	N/A	Stand has aspen getting saw sized in areas. Old comments- Was cut 4" & up in 1986 (#014-85), regenerated nicely to aspen. Also vigorous oak stump sprouts from the cut and larger residual oak saw. Merch & up cut also left some residual aspen & RM that are edging into the small saw class. North end more fully transitioned into the pole class. Traces of WP & dead white ash.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		5	Log/Pole	10		Maple Leaved Viburnum		Low	< 5 feet	Tall Shrub
Bigtooth Aspen		75	Pole/Log	9	37	Red Maple		Low	10 - 20 feet	Sapling
Red Maple		5	Pole	7						
Quaking Aspen		15	Pole	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
6	4130 - Aspen	Sapling Well	17.8	11	Immature	N/A	Stand met regeneration objective for aspen.																																																						
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8	4130 - Aspen	Poletimber Well	34.5	27	51-80	N/A	Aspen is a little bigger diameter in the north half than south. Old comments- Was cut 2" & up in 1996 (#056-95). Nicely regenerating aspen stand with a vigorous oak component. RM crown position mostly suppressed to intermediate. Trace of residual oak saw.																																																						
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9	3105 - Mixed Upland Herbaceous	Nonstocked	1.2			No	Old comments- Small opening with slash, rubus, sweetfern; used twice as a landing for adjacent harvests.																																																						
10	4130 - Aspen	Poletimber Well	12.1	37	81-110	N/A	Was cut 4" & up in 1986 (#014-85). A-O-RM stand with the aspen nearly all in the pole class, and some small saw residual from the cut. The oak holds co-dominant to dominant crown positions. The RM is smaller-diameter and intermediate in the canopy.																																																						
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11	4130 - Aspen	Sapling Well	33.4	15	Immature	N/A	Some Japanese barberry seen in stand (mostly in the south half). Old comments- Was cut by 2008 (#061-05), 4" & up except WP. Well-established aspen regen. Vigorous oak stump sprouts 5-10' tall. QA occupying the lower terrain, BTA the upper ground. RM overtopped by the aspen. See M.C.s																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 48.5 74 51-80 N/A Remote call done using aerial imagery due to access and lowland covertype. Inventory data carried forward from 2015 inventory.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	10	Log/Pole	11	
Tamarack	30	Pole/Log	9	99
Red Maple	2	Pole/Sapling	6	
Paper Birch	35	Pole/Sap/Log	7	74
Black Spruce	3	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Michigan Holly	Low	5 - 10 feet	Tall Shrub
Tag Alder	High	10 - 20 feet	Tall Shrub
Balsam Fir	Medium	Variable	Sapling

Old Comments- E/Q cover trending toward the low end of 50-75% canopy closure. Paper birch, tamarack & balsam fir swap dominance across the stand. Minor associates include NWC, black spruce & RM. Subcanopy is mostly tall tag alder with balsam fir. PB SI 47. See M.C.s

13 4130 - Aspen Poletimber Well 15.2 37 51-80 N/A Was cut 4" & up in 1986 (#014-85). Nice aspen stand. BTA more fully transitioned into the pole class than the QA. Vigorous NRO stump sprouts. RM regen furthest behind and intermediate in the canopy.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	5	Pole	8	
Quaking Aspen	15	Pole	7	
Bigtooth Aspen	77	Pole/Log	8	37
Red Maple	3	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Maple Leaved Viburnum	Low	< 5 feet	Tall Shrub
Black Cherry	Low	Variable	Tall Shrub

14 6120 - Lowland Cedar Poletimber Medium 20.2 115 111-140 N/A Remote call done using aerial imagery due to access and lowland covertype. Inventory data carried forward from 2015 inventory.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole/Sapling	5	
Black Spruce	3	Pole	7	
Paper Birch	10	Pole/Sapling	6	
Red Maple	2	Pole/Log	7	
Tamarack	5	Pole	8	
Northern White Cedar	65	Pole/Log/Sap	8	115
Quaking Aspen	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub

Old Comments- NWC stand with Q/E inclusions. Patches of the stand were harvested in the 1960's, resulting in a mosaic of mature and immature cover. Typed as "deeryard" harvests, roughly seven acres were cut in 1963 (#101-62), and another half-acre in 1969 (#032-69). Stand's second age is set to the 1963 harvest. The mature cedar cover (first age) is healthiest in the stand's west, and becomes more spindly to the east. The cut patches are filled in predominantly with PB, balsam fir, black spruce & QA, with a notable exception: the stand's far east patch (OFS point) has truly younger sapling-pole NWC mixed in that regenerated post-harvest. Cored 3" diam NWC was 45 years old. NWC SI 30.

15 4130 - Aspen Poletimber Well 44.1 36 81-110 N/A Remote call made and previous inventory data was carried forward due to stand being inaccessible. I increased DBH 1 inch for all species. In addition, a 3 acre strip (stand 18) was merged with stand 15 to meet minimum acreage mapping standards. Strip of aspen was aged at 85 years old (see notes below).

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	70	Pole	7	36
Quaking Aspen	20	Pole	6	
Red Maple	6	Sapling/Pole	4	
Paper Birch	2	Pole	6	
Red Oak	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Maple Leaved Viburnum	Low	< 5 feet	Tall Shrub
Balsam Fir	Low	5 - 10 feet	Sapling

Stand 15 old comments- Was cut 2" & up by 1987 (#018-86). Vigorous BTA, QA less so, with overtopped RM and occasional black cherry, PB and nice NRO. BTA more fully transitioned into the pole class than the QA. Balsam fir recruiting below. See M.C.s

Stand 18 old comments- Narrow strip of overmature aspen that was prescribed but not cut in 1987 due to an unresolved fence trespass. Upland QA & BTA with RM and intermediate balsam fir. See M.C.s



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
16	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	15.1	93	81-110	N/A	Remote call done using aerial imagery due to access and lowland covertype. Inventory data carried forward from 2015 inventory.																																																										
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17	3205 - Mixed Upland Shrub	Nonstocked	1.6			No	Remote call made and previous inventory data was carried forward due to stand being inaccessible.																																																										
Old Comments- Upland opening that has been slowly filling in with staghorn sumac and paper birch.																																																																	
19	4119 - Mixed Northern Hardwoods	Sawtimber Well	12.7	112	111-140	N/A	Remote call made and previous inventory data was carried forward due to stand being inaccessible.																																																										
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20	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	20.4	118	81-110	N/A	Remote call made and previous inventory data was carried forward due to stand being inaccessible.																																																										
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22	4112 - Maple, Beech, Cherry Association	Sawtimber Well	25.4	118	111-140	N/A	Remote call made and previous inventory data was carried forward due to stand being inaccessible.																																															
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23	6220 - Alder/willow	Nonstocked	71.5			No	Remote call done using aerial imagery due to access and lowland covertype. Inventory data carried forward from 2015 inventory. Old comments- Tag alder, salix, spiraea, red-osier dogwood, ilex, with widely-scattered RM, PB, balsam fir.																																															
24	6220 - Alder/willow	Nonstocked	2.4			No	Remote call done using aerial imagery due to access and lowland covertype. Inventory data carried forward from 2015 inventory. Old comments- Tag alder with some ilex, over flooded marsh.																																															
25	6120 - Lowland Cedar	Poletimber Well	400.7	103	141-170	N/A	Remote call done using aerial imagery due to access and lowland covertype. Inventory data carried forward from 2015 inventory.																																															
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26	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	15.2	77	51-80	N/A	Remote call done using aerial imagery due to access and lowland covertype. Inventory data carried forward from 2015 inventory.																																																						
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27	6120 - Lowland Cedar	Poletimber Poor	38.1	137	1-50	N/A	Remote call done using aerial imagery due to access and lowland covertype. Inventory data carried forward from 2015 inventory.																																																						
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28	6121 - Tamarack	Poletimber Medium	16.8	125	1-50	N/A	Remote call done using aerial imagery due to access and lowland covertype. Inventory data carried forward from 2015 inventory.																																																						
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29	6220 - Alder/willow	Nonstocked	9.3			No	Stream corridor. Salix & tag alder, with spiraea, leatherleaf and marsh cover. There is a sub-acre inclusion of dry ground in the stand's NW corner.																																																						
30	6220 - Alder/willow	Nonstocked	6.5			No	Remote call done using aerial imagery due to access and lowland covertype. Inventory data carried forward from 2015 inventory. Old comments- Tag alder with red-osier dogwood and scattered cedar clumps.																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																									
31	6127 - Lowland Pine	Sawtimber Well	22.5	70	111-140	N/A	Old comments- Multi-poly stand occupies a series of shallow ridges dissected by drainages and further split by the private RR grade. Highest spines of the ridges are dry ground, but the stand is lowland overall, with seasonal flooding, and some formerly dry polys are swamping due to impeded drainage. Majority cover in WP & RP saw-poles, with some overmature JP & aspen, and E inclusions along the margins. Ground is lowest east of the RR grade. Wide illegal quad path from the private to the west runs one of the ridges. WP SI 68																																																																									
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32	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	12.7	56	1-50	N/A	Small and wet stand is open in north finger with tag alder. Cover picks up in southeast and southwest. Aspen is falling apart now. Old comments- RM-QA-PB stand that barely makes the forested benchmark. Has better canopy closure on the narrow band of transition ground with the uplands, but the stand's core ground is a sparse flooded drainage swale. The QA (second age, previous inventory) is terrible quality, top-dying, with conks. RM (first age) & PB are filling in. High cover in lowland brush, over marsh grass. Illegal wide quad path was built up with dirt from the adjacent drier ground to get across this stand's far NW end.																																																																									
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33	6127 - Lowland Pine	Sawtimber Well	27.4	81	111-140	N/A	The small lowland maple/tamarack stand 35 adjacent to Barlow Rd, was merged with stand 33 due to similar age and lowland characteristics with southwest portion of stand. Southwest is dominated by tamarack, white pine, and spruce. Northeast is mostly white pine with some red pine. Stand is humacky with thick lowland shrubs and standing water in places. Old comments- Mixed pine & lowland conifer stand. Experiences seasonal flooding, but the west end is wettest year-round. That end is heavier to black spruce, JP & WP, with more leatherleaf groundcover. Moving east, the spruce decreases and the WP & RP cover picks up. Shrub cover there still indicates cool, wet acid conditions but it was dry enough for RP to become established. That RP is barely tolerating the current depth to water table. The stand's perimeter picks up some A-RM where it borders E/P stands. The conifer cover is large pole/small saw in size with scattered larger pioneer stems. Enough of the canopy was in log-sized stems (30%) that the stand had to be called log overall. The stand has a roughly chain-wide swath of thinner cover adjacent to the private property which was harvested. RP SI 53. Stand 35 previous comments- Sparse, marginal stand of oversized RM pulp, tamarack & PB with small pole RM & QA. L3 below over sheep laurel & leatherleaf. Handfull of hemlock. QA terrible quality. See M.C.s																																																																									
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34	6220 - Alder/willow	Nonstocked	51.4			No	Tag alder & salix, with red-osier dogwood, spiraea, ilex, and widely-scattered RM, balsam fir, PB, NWC.																																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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36	6220 - Alder/willow	Nonstocked	7.6			No	Tall tag alder with scattered overmature QA, & occasional PB, RM & elm. Since the spindly ash died out, cover doesn't make the forested benchmark. Overmature QA top-dying.
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37	6113 - Lowland Maple	Sawtimber Medium	33.9	103	51-80	N/A	Stand has excellent aspen and fir recruiting throughout (excluding the swale mentioned in previous comments. Very wet and shrubby understory in mid/morth.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	70	Log/Pole/XLog	15	103
Balsam Fir	5	Pole	7	
Paper Birch	2	Log/Pole	10	
Northern White Cedar	14	Pole/Log	9	
Hemlock	2	Log	14	
Basswood	2	XLog/Log	20	
Sugar Maple	5	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Musclewood/Hornbeam	Low	Variable	Tall Shrub
Bigtooth Aspen	High	>20 feet	Sapling
Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	High	Variable	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub

Old comments- Except for the far south edge, this stand was cut in a selection harvest by 2007 (#028-05), all aspen, ash & orange-marked trees (mostly RM, PB, balsam fir), to a stated residual of 60 sq. ft. The residual is large RM saw (often cull), with small amounts of PB, BF, NWC, hemlock, hard maple, basswood, beech & oak. The regen is patchy; locally high but averaging to moderate at best, and very sparse in the stand's N-center swale that has the wettest ground and was poorly-stocked to start with. An old dug channel runs east-west through the stand from Barlow Road to the river terrace. OFS points mark two ephemeral draw features. RM SI 55. Previous inventory age on the RM was 78. See M.C.s

38	6120 - Lowland Cedar	Poletimber Well	25.9	118	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Pole/Sapling	5	
Tamarack	3	Pole	8	
Northern White Cedar	75	Pole/Log	8	118
Paper Birch	5	Pole/Sapling	6	
Balsam Fir	10	Sapling/Pole	4	61
Red Maple	2	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Sapling
Tag Alder	Low	Variable	Tall Shrub

Old comments- Cedar stand with typical profile in this area: vigorous, robust cedar on the drier transition ground by the uplands, quickly giving way to shorter, smaller-diameter cedar as you level out onto the swamp's core low ground. Walked on a lot of ice there. Top-mortality, root-tip common on the low ground. Balsam fir recruitment is what's keeping this stand from dropping a canopy class. Scattered supercanopy WP. Trace of hemlock at the north end. Two chain-wide strips were harvested in 1962 (#070-61) as part of a "deeryard" cut (OFS points). There was some post-harvest cedar regen. Two 3.5" diam cedar cored were 43 & 44 yrs. The strips have less than 25% cedar cover, and some of that was residual from the cut. Moving to the west in the strips where the ground gets wetter, there's almost no cedar.

39	4134 - Aspen, Spruce/Fir	Sapling Well	21.2	27	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	3	Log/Pole	10	
Paper Birch	3	Sapling/Pole	4	
Balsam Fir	20	Sapling/Pole	4	
Quaking Aspen	40	Sapling/Pole	4	27
Black/Red (Hybrid) Oak	2	Pole/Sapling	5	
Black Spruce	2	Sapling	2	
Bigtooth Aspen	25	Sapling/Pole	4	
Red Maple	3	Sapling	3	27
Tamarack	2	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	Variable	Tall Shrub

Some aspen getting pole size but, still sapling size overall. Beaver damage in north island.

Old comments- Was cut in 1996 (#058-95), merch & up except NWC & hemlock. Shallow ridge, upland overall with transition ground to the adjacent lowlands. Dense aspen clones with scattered residual cedar & balsam fir are separated by sparser areas filling in with fir, PB, spruce & tamarack. The north poly's aspen saw some beaver cutting; there is also an intact patch of mature NWC & hemlock. OFS point is a private gate.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
41	6120 - Lowland Cedar	Poletimber Poor	29.9	104	1-50	N/A	<p>Most of stand has a cedar shelterwood appearance except the northwest which was left unharvested due to wet soils and lack of merchantable trees. Stand has not started to regenerate at time of inventory. Additional monitoring needed.</p> <p>Previous comments- Harvested under contract 72-055-15 Poor Farm Jack. Per conversation with wildlife, the unit was able to be cut in the summer due to good conditions to access unit. Stand was accessed from the east through stand 53. Small portion in the NW that was unharvested due to higher water table. May have to wait until updated imagery to delineate. Reference Line did not upload.</p> <p>Old Notes before harvest: Majority cover in the stand's middle has three layers: log-sized red maple & paper birch over pole/log northern white cedar over sapling balsam fir. That ground is lowland overall, but not saturated, and is dry enough to support the occasional beech and oak. In the NE, the stand picks up a lower swale with tag alder; cover is sparser there due to ash mortality. Toward the stand's NW, the majority cover shifts from RM-PB-NWC to mostly NWC with some hemlock and WP. The cedar sharing the drier ground with the RM & PB have healthy crowns, although ring shake & heartrot were encountered. The west panhandle has a narrow ephemeral drain cutting through it roughly N-S (OFS pt). Slash is accumulating from PB & balsam fir break-up. NWC SI 33. A lot of hare, deer & hunter use. See M.C.'s</p>																																														
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42	6220 - Alder/willow	Nonstocked	27.4		Immature	No	<p>Difficult to assess condition of culvert in snow and ice. Appears to be in good shape at a glance. Old comments- Forest of flood-killed NWC snags over tag alder & salix, with ilex, spiraea. Sparse balsam fir & NWC saplings. The stand's far NE has tag alder on a former black ash swale. Drainage impeded by a two-track built up across the swamp's south-center and NW edges (OFS points). See M.C.'s</p>																																														
43	6120 - Lowland Cedar	Sawtimber Medium	14.5	115	81-110	N/A	<p>Small creek in the south tip. Hillside seeps along the edge of stand 37. Spongy sphagnum ground cover. Old comments- Cedar swamp on Pine River floodplain, including sideslope up to terrace top. Hillside seeps. Best cedar health/growth is on that steep sideslope; on floodplain itself, there is more top-dieback and mortality. Overstory ash are dead. Balsam fir is recruiting from the dense subcanopy.</p>																																														
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44	500 - Water	Nonstocked	2.4			No	Water ponded behind the old RR grade.																																														
45	6220 - Alder/willow	Nonstocked	11.8			No	Tag alder with red-osier dogwood, occasional paper birch.																																														
46	6233 - Wet Meadow	Nonstocked	24.5			No	Floodplain marsh, narrow stream flows through and backs up against the RR grade where beaver-dammed. Rimmed with tag alder. Traces of typha. Inclusion: sub-acre island of WP by the RR grade.																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
47	6112 - Lowland Aspen	Sapling Well	16.9	17	Immature	N/A	Was cut in 2006 (#047-05), all species except the NWC & one large oak. Aspen regen on ground close to the water table. Some uplands with BTA, but long transition edge with the adjacent wetlands and swaths of sedge/rush interior. Scattered residual NWC. RM sapling cover includes regen from the cut and residual large saplings. Traces of tamarack and spruce regen. See M.C.s																																																								
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48	500 - Water	Nonstocked	5.2		Immature	No	No changes Old comments- Poned water where stream backs up against the RR grade. Beaver dam there lacking recent maintenance, allowing steady outflow.																																																								
49	6127 - Lowland Pine	Sapling Poor	115.5	12	1-50	N/A	Stand meets criteria for fully stocked lowland pine. Good mix of wp, jp, spruce filling the gaps. Quite a bit of what looks like it was sub-canopy white pine is getting pole sized. Regen in the gaps is mostly between 1-5 feet tall at this time. Old comments- Most of the stand was cut by 2011 (#029-07) 6" & up except leaving all WP, and the RP greater than 20" DBH. JP was the primary species removed. Ten acres of treed bog in the stand's west side were not within the harvest, but now match the harvested area's profile: leatherleaf, sheep laurel & vaccinium groundcover, with less than 25% canopy in residual pole-log-sap WP. The harvest left a spine of denser WP & RP saw on the east edge's slightly higher ground. Extensive windthrow in the residual pine. RP was barely tolerating the shallow water table to start with. The harvest may have swamped the stand just enough to tip that species over the edge; most of the residual RP are dead. Regen: WP, JP, black spruce & RP are seeding in. See M.C.'s																																																								
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50	6112 - Lowland Aspen	Sapling Well	12.8	17	1-50	N/A	Some scattered pole size bigtooth aspen but, overall sapling sized still. Pocket of tamarack in west side. Old comments- Was cut in 2006 (#047-05), all species except NWC. Aspen regen at moderate to full stocking except sparser at the landing and the wettest ground on the west edge. Some drier ground with BTA, but lowland overall due to seasonal high water table. Patches of woolgrass and sheep laurel.																																																								
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51	6126 - Lowland Jack Pine	Poletimber Medium	13.9	64	51-80	N/A	Really hummacky ground with open areas. White pine dominates the east side of stand.																																																																																								
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52	6233 - Wet Meadow	Nonstocked	4.6		Immature	No	Old comments- Floodplain marsh with tag alder perimeter. Narrow stream flows through. See M.C.s																																																																																								
53	4319 - Mixed Upland Forest	Sapling Poor	28.4	4	1-50	N/A	Excellent jack pine regeneration through most of stand. Portions of stand are 2 aged, but most look even aged. Southeast finger and northeast corner are 2 aged with a lot of residual poor formed aging pin oak left. Stand met regen objectives. Strip of pine in west has good white pine fir coming up below residuals.																																																																																								
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54	4139 - Aspen, Mixed Deciduous	Sawtimber Well	83.9	59	111-140	N/A	Stand contains numerous legacy size oaks and white pine. Some lowland spots near the edges of lowlands.																																																																																								
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55	6229 - Mixed lowland shrub	Nonstocked	2.1			No	Old comments- Searched for survey corner within stand but don't remember what species I flailed through. Tall stuff, L3.																																																																																								



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56	6220 - Alder/willow	Nonstocked	27.7			No	Old comments- Cedar Lake Complex ERA **Stand still needs update** Floodplain with narrow stream flowing through. Tall tag alder over marsh, with patches of open marsh. See M.C.s																																																										
57	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	16.6	86	51-80	N/A	About 4 acres of operable ground with saw timber, the rest is open marshy tag alder with scattered pole size maple, aspen, and fir. North island is log size white pine on lowland surrounded by wetlands and water. Old comments- From the small knobs of dry ground along on the stand's north edge, the ground quickly drops onto lowlands. The canopy is roughly two-aged and two-layered, with large cull RM, PB & aspen over small pole RM, PB & balsam fir. The lowest swales once heavy to ash are sparse now, with small PB, RM & fir filling in over the tag alder. Slash accumulation is from break-up of the overmature component and beaver-felling. The few large oak and BTA are found on the dry ground knobs. The poly north of the stream is an island of dry ground with more WP. Trimmed-up footpath runs through the stand to the RR grade.																																																										
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59	6225 - Bog	Nonstocked	1.2			No	Leatherleaf bog rimmed with ilex, colonizing paper birch & WP.																																																										
60	4131 - Aspen, Oak	Poletimber Well	23.2	36	1-50	N/A	Aspen in south is pole sized and oak in the north is getting merchantable. Old comments- Was cut by 1987 (#015-86, #021-86 E of rd), 2" & up except a few marked oak. Oak with patches of BTA regen. Transitioning into the pole class but not quite enough to call pole overall. The stump-origin oak are better developed than the single-stem oak. Occasional small oak saw residual. Scattering of short brushy conifers, with balsam fir heaviest along the lowland edge. Understory oak with potential to recruit.																																																										
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61	4136 - Aspen, Mixed Conifer	Sapling Poor	4.8	4	1-50	N/A	Stand met regen objectives following harvest. Some scattered saw sized oak residuals not counted in canopy data. Previous comments- Harvested under contract 72-055-15 Poor Farm Jack. This unit was completed in 10/2019 and had fair regeneration when the sale was closed out in 10/2021. Scattered open grown oak. Old notes: JP planted in 1960, wrapping around a pocket of open-grown, poor-form oak, and bordered by generally pole-sized BTA with the few odd saw. Previous inventory age on the oak was 65 yrs.																																																										
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63	6233 - Wet Meadow	Nonstocked	13.9			No	Changed from alder/willow to wet meadow. More of stand looks like meadow than alder/willow. Old comments- Salix with some tag alder. Marsh inclusion at the north end.																																																										
64	6220 - Alder/willow	Nonstocked	15.6			No	Salix with tag alder, and patchy typha coverage that increases toward the RR grade.																																																										



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65	6120 - Lowland Cedar	Poletimber Poor	17.8	125	51-80	N/A	Pockets of old blowdown and open tag alder make navigation tough. I walked through north side of stand and verified previous stand data.																																																																					
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66	6127 - Lowland Pine	Sawtimber Well	10.8	87	81-110	N/A	Red pine dominates north half and white pine spruce pick up more in the south. Red pine is looking stressed now.																																																																					
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67	6120 - Lowland Cedar	Sawtimber Medium	8.1	136	51-80	N/A	Grassy understory with shrubs in openings. Standing water all over after rain storm indicates poorly drained soils. Old comments- Stand has a band of dense NWC cover with marginal E/Q cover on either side. Ash on the east side above the ilex thicket has died out. The stand's west edge is dry enough to see the occasional oak pole. Those portions of the stand dip into the 25-50% canopy range. RM is largely cull, with heartrot and breakage common. Pockets of root-tip in the NWC. RM age is from the previous inventory.																																																																					
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68	622 - Lowland Shrub	Nonstocked	10.4	0		No	Tag alder and open grass with scattered conifer.																																																																					
69	6229 - Mixed lowland shrub	Nonstocked	4.1		Immature	No	Narrow swale of lowland brush. Mountain holly, tag alder, ilex, aronia, wild raisin, and colonizing quaking aspen.																																																																					
70	6230 - Cattail	Nonstocked	8.1			No	Cattail marsh with perimeter tag alder, willow and sparse Q/E. NWC snags.																																																																					



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71	6127 - Lowland Pine	Sawtimber Well	13.6	123	141-170	N/A	<p>Called stand lowland with upland. Lots of trees getting legacy size. Good understory of wp, sp, and some cedar. Quite a bit of stand falls in 100' buffer of stand 56 creek. Rp heaviest in south.</p> <p>Old comments- Was put on proposal in 1985 but went unsold. Large RP & WP on intermediate, bordering on lowland, ground cut with seasonal drainage corridors (unmapped, OFS points only) that flow into the adjacent stream to the east. Associates include very overmature BTA, and RM, PB, NWC & hemlock. Groundcover with sheep laurel and traces of leatherleaf. The stand's north end picks up part of the adjacent 2011 harvest (#029-07) that had the heaviest saw residual. Windthrow occurring at that end. RP SI 63. See M.C.s</p>																																																				
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72	4130 - Aspen	Sapling Well	47.0	15	Immature	N/A	<p>Some beaver damage along west lowland boundary. Old comments- Was cut in 2008 (#062-05), 4" & up except white oak, WP & NWC. A-O-RM regen with scattered mature residual oak and a perimeter of uncut oak along the swamp edge. There is also large sapling/small pole residual oak & RM. Traces of WP & NWC. Browse on the regen is heaviest along the swamp edge, preferentially on the RM & oak. Across most of the stand, the regen is making it above the browse line, with the BTA well above.</p>																																																				
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73	6229 - Mixed lowland shrub	Nonstocked	32.1		Immature	No	<p>Stand failed to meet regen objectives following harvest. It was agreed to accept stand's open condition during 2025 compartment review and stand will be managed as non-forested. Some scattered fir and white pine found primarily near higher ground or pockets of uncut trees. A few stump sprout maples seen but heavily browsed. Southern portion was not harvested and was merged with stand 122. Water filled ruts throughout. Final harvested in Fall 2018 under Contract 72-061-15-01.</p> <p>Old comments- Aspen-red maple-lowland conifer stand with 2+ age classes across the deciduous species due to variable cutting history. Portions of the stand had merch & up removal of the A-RM-PB between 1962 & 1966, including some marked RP & WP (#061-65). There are pole-dominated areas where the cutting was cleaner, but the cover is log overall (30%+ canopy cover in log-sized stems). The hemlock, cedar, and super-canopy WP were left, representing the oldest components now. There's a ridge of upland ground where the two-track runs, but the stand is lowland overall. The wettest ground is a swale through the stand's north-center where the balsam poplar and dead ash are. The hemlock & NWC are concentrated in pockets along the stand's W & S edges. Did not visit stand's small poly west of the Pine River. The hemlock regen is mostly along the river terrace. A drainage crosses the stand's N end. See M.C.s</p>																																																				



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74	42220 - Natural Jack Pine	Sapling Medium	21.4	4	1-50	N/A	Stand has excellent jack pine regeneration following harvest. Stand met regeneration objective. Numerous oak residuals left in north. Previous comments- Harvested under contract 72-055-15 Poor Farm Jack. This unit was completed in 10/2019 but sale was not closed out until 10/2021. Fair regeneration when sale was closed out. Left all Oak and White/Red Pine. Old Notes: JP was planted in 1960 around residual oak. That oak has very poor form, with wide, low-forking crowns. Mature aspen rims the plantation, left when the surrounding aspen stand was cut. The JP is breaking up, quickest around the oak. RM regen is concentrated around the oak openings. Some of the oak inclusions have nice small pole oak below. Serviceberry reaching into the canopy.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		20	Sapling/Pole/Log	2		Serviceberry (Juneberry)		Medium	>20 feet	Sapling	
Jack Pine		75	Sapling	1	4						
Quaking Aspen		3	Sapling	1							
Red Maple		2	Sapling	1							

75	4130 - Aspen	Poletimber Well	84.9	36	1-50	N/A	Aspen looks healthy, a few residual log size oaks scattered throughout. Forested lowland swale connects stands 55 and 69. Old comments- Was cut 2" & up by 1987 (#021-86 & #023-86). Upland aspen stand with extensive lowland interface. Bordered by long wetland swales and encompassing small bog, treed bog and lowland brush stands. The dense aspen clones are separated by lower-density pockets of oak regen. The QA is concentrated along the lowland edges and is not as far into the pole class as the BTA.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		33	Pole	6		Black/Red (Hybrid) Oak		Low	< 5 feet	Sapling	
Balsam Fir		2	Pole/Sapling	5		Serviceberry (Juneberry)		Medium	>20 feet	Tall Shrub	
Jack Pine		5	Pole	6		White Oak		Low	< 5 feet	Sapling	
Red Maple		5	Sapling/Pole	4							
White Oak		3	Pole/Sapling	5							
Black/Red (Hybrid) Oak		15	Pole	6							
Black Cherry		2	Pole/Sapling	5							
Bigtooth Aspen		35	Pole	6	36						

76	4131 - Aspen, Oak	Sawtimber Well	47.0	50	111-140	N/A	Aspen in north half has more pole sized trees than south. Old comments- Was cut in 1973 (#013-72A), merch & up on the A-RM-PB-O except for a few oak marked to leave, and RP & WP saw marked to cut. Nice aspen stand on a long shallow ridge bordered by lowlands on both sides. The stump-origin oak has generally very good form & vigor, with some in the saw class already at age 40. The SW finger that trails down onto the marsh was excluded from the harvest and has overmature JP with some RP & QA saw. There is also a narrow strip of mature aspen along the stand's north edge that was not cut in 1973. See M.C.'s				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		8	Log/Pole	10		Hazelnut (Beaked)		Low	< 5 feet	Tall Shrub	
Jack Pine		2	Log	12		Red Maple		Low	>20 feet	Sapling	
Paper Birch		2	Pole/Log	9		Serviceberry (Juneberry)		Low	>20 feet	Tall Shrub	
Red Oak		19	Log	12		White Pine		Low	Variable	Sapling	
White Oak		2	Log	12		Balsam Fir		Low	Variable	Sapling	
Quaking Aspen		8	Log/Pole	10							
Bigtooth Aspen		50	Log/Pole	10	50						
Red Pine		2	Log/XLog	16							
Balsam Fir		2	Pole	8							
White Pine		5	Log	15							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																													
77	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Poor	19.6	77	1-50	N/A	Mixed lowland pine with occasional hemlock cedar in south. Pole sized maple/wp/aspens in north. Stand is very wet and has a lot of standing water with shrubby understory. Open tag alder swale cuts through stand as well. Merged stand 86 with 77 to meet mapping standards and because of similarities between stands. Stand 86 old comments-One step up from being a treed bog. Widely-scattered saw-sized pioneers seeded in the majority small pole/large sapling cover of WP, tamarack, RP & JP. Additional subcanopy regen is recruiting. Growing on leatherleaf & sheep laurel. Aside from the pioneers, the stand is relatively young. WP SI 55 Stand 77 old comments- Marginal E-type growing over diverse L3 on a drainage swale. Primarily pole-sap RM with lesser amounts of WP, tamarack & QA. Occasional saw-sized pioneer stems. The stand grades into the adjacent slightly drier stands on all sides.																																																																													
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78	6225 - Bog	Nonstocked	5.5			No	Leatherleaf, labrador tea, sheep laurel bog being colonized by WP & spruce saplings and rimmed with WP & black spruce poles.																																																																													
79	6220 - Alder/willow	Nonstocked	9.8		Immature	No	Salix with some tag alder, ilex, over leatherleaf.																																																																													
80	4130 - Aspen	Sapling Poor	32.9	5	1-50	N/A	Stand met regen objective for aspen. Maple and oak present but, heavily browsed and cant be counted yet. Stand harvested in 2018 under contract 72-061-15-01. Cut all trees two inches and up except white pine, red pine, cedar, oak less than 10" DBH and oak greater than 24" DBH. Old comments- Aspen stand with significant oak and RM components. The stand was cut in 1965 (#029-65), removing merch aspen, and JP 10" & up on the stump. Aspen from the cut is large pole to small log in size, and there are some overmature breaking up residual stems. The oak is generally small log sized, with some large poles and a few xlog WL trees. The RM is generally poor-quality multi-stem clumps. Overmature JP rims the bog along the south edge. NWC rims the L3 on the north edge. Upland overall, but including the lower transition ground down to the L3. Small mixed oak saw (12" DBH) cored was 64 years old.																																																																													
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81	4126 - White, Black, N. Pin Oak	Sawtimber Poor	9.0	104	1-50	N/A	Sub-canopy is a mix of aspen and white pine with minor oak/maple component following shelterwood treatment. Some of the aspen is getting pole size. White pine sub canopy looks stressed in the south (yellowing needles). 50' strip of cedar between stand 56 and 81 was merged with stand and makes up conifer component in canopy data. Old comments- Was cut in 1996 (#058-95), merch & up on the A-RM-BF-pine, leaving all oak. That species-removal harvest left a variable distribution of mature oak ranging in size from spindly small saw to xlog wildlife trees. Epicormic branching common. The overstory cover is densest roadside, and thins out significantly to the N & W. The understory has varying cover in aspen & WP (locally high amounts of each), along with oak, RM & balsam fir. Scattered WP saw. A few super-canopy RP near the stream corridor. BRO SI 65																																																																													
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82	4131 - Aspen, Oak	Poletimber Well	13.8	27	1-50	N/A	Stand just meets criteria forested pole sizes but, still contains a lot of sub merchantable trees.Old comments- Was cut in 1996 (#058-95), merch & up except NWC & hemlock. Aspen regen with oak filling in between clones. Merch & up spec left occasional poles across all species, but the stand is still sapling overall. The stand's west poly includes an uncut buffer of mature oak left along the swamp edge.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		5	Sapling/Pole	4		Serviceberry (Juneberry)		
Quaking Aspen		50	Pole/Sapling	5	27	Low		
Bigtooth Aspen		20	Pole/Sapling	5		Variable		
Black/Red (Hybrid) Oak		17	Pole/Sapling	5		Tall Shrub		
White Pine		2	Pole/Log/Sap	9				
White Oak		3	Sapling/Pole	4				
Black Cherry		3	Sapling	3				
83	4125 - Black, N. Pin Oak	Sapling Poor	9.2	10	Immature	N/A	Advanced regen protected from harvest was estimated at around 10 years old. Stand recently harvested West of Grade #72-047-19 but, sale is still open.JP planted in 1960 around light residual. Occasional WP pole mixed in. Was within the1996 harvest (#058-95) where all merch stems were cut except pine. The swaths of large sapling aspen & oak that have reached the canopy are from that cut. Subcanopy oak has also become established within the plantation. Crook and persistent dead limbs are common in the JP. Slash is starting to build as the JP breaks up. Planted JP SI 45.As of 11/8/18 stand has not been treated due to small size and need to figure out access. The RR corridor is owned by Twp. We need to approach Twp about acquiring it or getting access as this private strip is the only access available. This pvt ownership was not recognized at time of prescription and has since been discovered and updated. So stand has been factor limited until this can be arranged.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Oak		10	Sapling	1				
Bigtooth Aspen		15	Sapling	1				
Black/Red (Hybrid) Oak		50	Sapling	1	10			
White Pine		3	Sapling	1				
Red Maple		22	Sapling	1				
84	6225 - Bog	Nonstocked	5.2			No	Leatherleaf bog rimmed with aronia. Marsh inclusion in the south half.	
87	4130 - Aspen	Poletimber Well	23.4	27	1-50	N/A	Changed from 2 aged to even aged since there's not enough of the planted jp to call seperate age. Aspen just met the 30% threshold for calling stand pole sized. Some saw size natural jack pine in transition between bog and upland.Old comments- Was cut in 1996 (#058-95), merch & up except the pine. Nice aspen & oak regen with some WP saps, and traces of WP, RP & JP saw. The stand's SE has small patches of the 1960's planted JP. The stand's NW peninsula drops down onto lower ground and has more WP, BF & PB.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		7	Pole/Log	8		Serviceberry (Juneberry)		
Jack Pine		7	Pole/Log	9	63	Low		
Quaking Aspen		10	Sapling/Pole	4		Variable		
Red Maple		5	Sapling	4		Sapling		
Bigtooth Aspen		56	Pole/Sapling	5	27			
White Oak		5	Sapling	3				
Black/Red (Hybrid) Oak		10	Sapling	4				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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88	6120 - Lowland Cedar	Poletimber Well	56.8	141	81-110	N/A	Old comments- Cedar stand with cover varying drastically with depth to water table. The wettest ground in the south-center is barely forested; the NWC is small and top-dying there. Spindly ash long gone. On the shallow transition ground to the uplands, there is 75-100% cover in healthy NWC with supercanopy WP and log-sized RM, PB and the occasional oak. A lot of root-tip in the narrow north panhandle. A chain-wide strip was cut along the stand's south edge (OFS point) in 1971 (#033-70). It was supposed to be one of many, but the logger turned the contract back after cutting only one strip. That strip has converted to balsam fir & tag alder with scattered beat-up cedar residual from the cut.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		3	Log/Pole	12		Balsam Fir		High	Variable	Sapling	
Red Oak		2	Log/XLog	17		Tag Alder		Low	10 - 20 feet	Tall Shrub	
Paper Birch		2	Log/Pole	12							
Northern White Cedar		90	Pole/Log	8	141						
White Pine		3	Log/XLog	17							

89	6127 - Lowland Pine	Poletimber Poor	23.4	78	51-80	N/A	Ground is soft and spongy. Changed from 2 aged to even aged. Most of the tamarack looks to be similar age to the pine. Old comments- Not much above treed bog status. Primarily pole pine & tamarack over leatherleaf/sheep laurel groundcover. JP dropping out. WP tolerating conditions the best. RP with wet feet issues. Tamarack & WP subcanopy continuing to recruit. Occasional NWC, hemlock & xlog WP. Narrow crescent wrapping around the stand's NE edge is the last to fill in; has mostly tamarack saplings over leatherleaf. WP SI 38. See M.C.s				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		20	Pole	8		White Pine		Low	Variable	Sapling	
Black Spruce		3	Pole	6		Wild Raisin		Medium	5 - 10 feet	Tall Shrub	
Northern White Cedar		2	Pole/Log	8		Black Spruce		Low	5 - 10 feet	Sapling	
Tamarack		25	Pole	8		Tamarack		Low	Variable	Sapling	
Red Pine		15	Log/Pole	10		Mountain Holly		Medium	5 - 10 feet	Tall Shrub	
White Pine		35	Pole/Log	8	78						

90	4130 - Aspen	Sawtimber Well	21.4	64	111-140	N/A	Changed to upland with lowland. Old comments- A-RM-O stand on intermediate ground, with 3+ age classes due to variable disturbance history. Four acres east of stand 86 were burned & set up for salvage in 1972 (#021-72), with cutting wrapped up by 1974. The salvage was spec'd to remove merchantable A-O-JP-RM, but the logger left scattered merch stems of all species due to charring concerns. That patch now has small pole A-RM-O. The surrounding large pole/small saw aspen age points to a circa 1960 harvest, but could not locate the cut record. The third major age class is around 80 years old from the saw-sized RM and likely includes a good portion of the oak. On top of those deciduous age bands is a minor, even older class of hemlock, WP, RP & NWC. Two small drainages cross through the stand (south one unmapped, OFS point only). The stand is upland overall but includes low ground rimming the drainages, stream corridor, and stand 86.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		21	Log/Pole	10		Hemlock		Low	Variable	Sapling	
White Pine		7	XLog/Log	20		Balsam Fir		Medium	5 - 10 feet	Sapling	
Red Pine		3	Log/XLog	16		White Pine		High	10 - 20 feet	Sapling	
Hemlock		2	Log/XLog	16		Wild Raisin		Low	5 - 10 feet	Tall Shrub	
Paper Birch		2	Pole/Log	8							
Red Oak		5	Log/Pole	12							
Bigtooth Aspen		60	Log/Pole	10	64						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
91	4311 - Pine, Aspen Mix	Sawtimber Well	38.6	127	111-140	N/A	<p>Changed stand from upland to upland with lowland due to southeast corner, hummacky poorly drained portions of the south, and shrubb/carr stand 85 which I merged with 91 due to over half of it being forested.</p> <p>Old comments- Was cut in 1973 (#013-72A), merch & up on the A-RM-PB-O except for some oak marked to leave and RP-WP marked to cut. The stand has a two-aged, two-layered canopy made up of pine saw residual above the deciduous pole regen from the cut. The WP & RP saw diameters are largest in the south end and gradually decrease going north, but they still average xlog overall. The stand has patches of PARVCo ground at the south end and running up through the middle. The trace of cedar is on that ground and around the wetland stand 85. The cut left scattered log-sized oak, RM & paper birch amongst the pole-sapling A-RM-O regen from the cut. That regen's development was slowed by the amount of residual pine. There is a narrow strip of mature aspen along the stand's north edge that was not cut in 1973. See M.C.'s. RP SI 57</p>																																																
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92	500 - Water	Nonstocked	1.3			No	Pine River.																																																
93	6225 - Bog	Nonstocked	2.1		Immature	No	Leatherleaf bog being colonized by JP, WP.																																																
94	6225 - Bog	Nonstocked	13.9			No	Leatherleaf bog with JP on the margins.																																																
95	6220 - Alder/willow	Nonstocked	3.6			No	Old comments- Willow & red-osier dogwood over marsh.																																																
96	42250 - Pine, Oak	Sawtimber Poor	11.0	75	1-50	N/A	<p>Stand met regen objectives during 2025 yoe. Stand looks even aged in north and 2 aged in south with all the residual white oak and white pine. Changed from upland to upland with lowland due to hummacky areas with sheep laurel.</p> <p>Old comments- Was cut in 2008 (#063-05), 4" & up except white oak, WP, NWC & green-marked trees. High stumps were spec'd for wildlife structure. The marked residual saw is concentrated in the stand's S end, and is mostly WO & WP. There is dense BTA regen in the stand's N end, shifting to sparser RM-O-WP in the S 3/4's. Some browse, mostly on the RM. Oak & WP seedlings have potential to recruit. Previous inventory age was on the oak. See M.C.s</p>																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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97 4125 - Black, N. Pin Oak Poletimber Medium 17.9 39 1-50 N/A

Somewhat open stump sprout origin oak getting pole sized with some smaller sapling sized oak/maple filling the gaps.

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	10	Sapling/Pole	4	
Bigtooth Aspen	3	Pole/Log	8	
Jack Pine	2	Pole	6	
Black/Red (Hybrid) Oak	83	Pole/Sapling	6	39
Black Cherry	2	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling

Old comments- Was cut by 1984 (#058-82A), merch oak and a trace of RM. The oak regen includes large sapling/small pole stump sprouts from the cut and smaller-diameter single-stem saplings. Not enough has moved into the pole class to call the stand pole overall. Subcanopy oak continue to recruit. Stand also has scattered brushy JP, aspen poles/saplings and the occasional overmature BTA. Cover includes an uncut strip of mature oak bordering the swamp. See M.C.s

98 6233 - Wet Meadow Nonstocked 7.4 No

Floodplain marsh, rimmed with tag alder. Narrow stream flows through. See M.C.s

99 6120 - Lowland Cedar Poletimber Well 96.9 133 111-140 N/A

Good looking cedar with pine and hardwoods in south where creek runs through. Stand becomes more brushy and open in the north where ash died off. Small upland stand adjacent to golf course (stand 139) was merged with 99 due to its small size and lack of access. Stand 139 comments: Small upland stand bordered by the golf course to the east and the cedar swamp to the west. Further cut off by a stream that flows through the swamp to Kings Corner Rd. A mix of oak, aspen, RM & WP with immature to overmature components across all species. Only cored the median oak saw; did not age the pole or xlog components in this small stand. Previous inventory age on the oak was 64. See M.C.s

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	5	Log/Pole	10	
White Pine	3	XLog/Log	20	
Hemlock	3	Log	12	
Bigtooth Aspen	2	Log	14	
Northern White Cedar	78	Pole/Log	8	133
Balsam Fir	5	Pole/Sapling	5	
Paper Birch	2	Pole	8	
Red Maple	2	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling
Tag Alder	Low	Variable	Tall Shrub

Old comments (stand 99)- Long, narrow lowland cedar swale, bordered by uplands on both sides. Drainage is somewhat impeded toward the west end (RR grade); cedar cover/health is sparser there where the ground is flooded and the ash gone. The rest of the stand reflects the typical profile: good growth/health on the slightly drier transition ground, and smaller, less vigours cedar on the lowest ground. Root-tip, top-dieback occurring there. Super-canopy WP, & RM, PB saw rim the upland edges, especially in the stand's S half. Stream crosses into that end from the golf course. That better-drained area has larger-diam cedar & a pocket of hemlock & WP. Pocket of cedar mortality by road. Two acres were cut near stand 82 by 1978 (#33-76), merch & up except marked NWC (OFS point). The cut appears to have released existing large sap NWC without starting a new age class. 3-5" diam NWC cored were 68, 70, & 124 yrs. NWC SI 27



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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100 6127 - Lowland Pine Sawtimber Medium 12.2 116 81-110 N/A

Red pine is showing signs of stress. Some better regen in portion east of Barlow where canopy gaps are.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	3	Log/Pole	10		White Pine	Medium	Variable	Sapling
White Pine	40	XLog/Log	18		Bigtooth Aspen	Low	5 - 10 feet	Sapling
Red Pine	45	XLog/Log	18	116	Hemlock	Trace	Variable	Sapling
Jack Pine	2	Log/Pole	10		Red Pine	Trace	< 5 feet	Sapling
Hemlock	10	Log/Pole	12		Red Maple	Low	Variable	Sapling

Old comments- Was thinned in 2010 (#011-05), cutting all A-RM-PB and marked RP-WP, except for the far west edge that was sparse to start with. All hemlock & NWC were left. Naturally-established wet-mesic conifer stand. The conditions that allowed for the RP establishment appear to have gotten wetter. The stand has a narrow band of drier ground roadside, but it is intermediate to low overall, with a relatively high water table. Sheep laurel and some leatherleaf in the groundcover. A second canopy layer below the large residual pine is occupied by hemlock & NWC. Subcanopy has pockets of hemlock, WP & RM regen. Hemlock not showing signs of post-logging decadence. RP SI 57. See M.C.s

102 6233 - Wet Meadow Nonstocked 19.3 No

Marsh with patches of leatherleaf, salix & JP islands.

103 4130 - Aspen Sawtimber Well 18.3 50 111-140 N/A

Called stand A9 but, has portions of A6 still.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	3	Log/Pole/XLog	14		White Pine	Low	Variable	Sapling
Red Pine	2	Log/Pole	11		Red Pine	Trace	>20 feet	Sapling
Red Maple	5	Pole	7		Balsam Fir	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	10	Pole/Log	9		Serviceberry (Juneberry)	Low	>20 feet	Tall Shrub
Paper Birch	2	Pole	8					
Bigtooth Aspen	76	Log/Pole	10	50				
Quaking Aspen	2	Pole	8					

Old comments- Was cut in 1973 (#013-72A), merch & up on the A-RM-PB-O except for a handful of oak marked to leave, and RP-WP marked to cut. Same sale as the adjacent stand 91, but with far less pine residual. Vigorous BTA & NRO regenerated from the cut. Scattered WP & RP, with a concentration of pine at the old landing. Handful of xlog NRO residual. NRO stump sprouts from the cut generally have good form and vigor, pushing the small saw class. Some of the aspen has edged into the saw class also, but the stand is pole overall. See M.C.s

104 4130 - Aspen Poletimber Well 33.2 49 81-110 N/A

Good white pine sub-canopy in west half of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole	7		Red Maple	Low	10 - 20 feet	Sapling
Quaking Aspen	15	Pole/Log	9	49	Black Cherry	Low	5 - 10 feet	Tall Shrub
Red Pine	2	Log/Pole/XLog	11		White Pine	Medium	5 - 10 feet	Sapling
White Pine	2	XLog/Log	20		White Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	15	Pole/Log/XLog	9					
Bigtooth Aspen	50	Log/Pole	10	49				
White Oak	3	Pole/Log	9					
Jack Pine	4	Pole	8					
Red Maple	5	Pole/Sapling	5					
Black Cherry	2	Pole	7					

Old comments- Most of the stand was burned and set up for salvage in 1972 (#021-72), with cutting wrapped up by 1974. The salvage was spec'd to remove merchantable A-O-JP-RM, but the logger left scattered merch stems of all species due to charring concerns. Majority cover is regen from the cut around 40 years old, with that scattered saw residual and patches of the 1960's planted JP that was pre-commercial at time of harvest. Cover is mostly aspen poles, but also nice oak poles/large saplings. The stand's far S edge has a band of very poor-quality open-grown xlog oak, cull RM and overmature aspen. There's a patch of super-canopy WP on lower ground along the stream floodplain; most of the PB is there too. A trace of NWC occurs on the sideslope down to the floodplain.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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105 42121 - Planted Jack Pine, Mixed Deciduous Poletimber Well 5.2 63 51-80 N/A Jack pine mortality popping up through stand.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	15	Pole/Log	9	
Jack Pine	73	Pole	8	63
Black Cherry	3	Pole	7	
Paper Birch	2	Pole	6	
White Pine	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	5 - 10 feet	Sapling
White Pine	Medium	Variable	Sapling
Red Maple	Low	Variable	Sapling
Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling

Old comments- Within an area that burned and was set up for salvage in 1972 (#021-72), with cutting wrapped up by 1974. The salvage was spec'd to remove merchantable A-O-JP-RM. The JP was planted in 1960 and was precommercial at time of harvest. Stand has a patchy mix of over- and under-stocked JP cover including the planted stock and a younger class that regenerated post-fire/salvage. Marginal, limby JP with pockets of mortality. See M.C.s

106 4126 - White, Black, N. Pin Oak Sapling Poor 17.8 10 1-50 N/A Regen protected was estimated to be around 10 years old. Stand recently harvested under West of Grade #72-047-19 but, sale is still open.

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	20	Sapling	1	
Red Maple	25	Sapling	1	
Bigtooth Aspen	5	Sapling	1	
Black/Red (Hybrid) Oak	50	Sapling	1	10

JP planted in 1960, along with a half-dozen rows of RP by the RR grade at the east end. The JP was planted at relatively tight spacing and weaves around residual open-grown oak. Planted JP is starting to weed out. Oak is filling in below the JP and in openings. There is a rim of overmature JP and some large RP along the bog edge. Planted RP SI 64.

107 6224 - Treed Bog Nonstocked 2.4 Immature No Old comments- Leatherleaf & mountain holly with JP, WP, balsam fir, RP colonizing.

108 4199 - Other Mixed Upland Deciduous Sawtimber Well 29.8 100 81-110 N/A Changed stand to upland with lowland due to hummacky areas, pockets of sheep laurel, and poorly drainage in spots.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	2	Pole	8	
Red Maple	27	Log/Pole	12	
White Oak	2	Log/XLog	14	
Bigtooth Aspen	15	Log	12	
Black/Red (Hybrid) Oak	40	Log/XLog	16	100
Balsam Fir	3	Pole	6	
Quaking Aspen	5	Log/Pole	10	
White Pine	6	Log/XLog/Pole	13	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	>20 feet	Sapling
Black/Red (Hybrid) Oak	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
White Pine	Medium	Variable	Sapling
Serviceberry (Juneberry)	Low	Variable	Tall Shrub

Old comments- Narrow stand bordered by the swamp and young upland stands that were cut in the last two YOE's. Has varying cover in oak and RM with an aspen component. The north end starts with poor-quality northern pin oak and patches of the 1960 planted JP. Moving south, the oak quality improves to northern red, and small patches of aspen are encountered. RM also increases moving south, as a pole-sapling component under the oak, and also in large cull saw where the ground grades down to the swamp. See M.C.s

109 4310 - Pine, Oak Mix Poletimber Well 58.6 39 1-50 N/A Changed from 2 aged to even aged. A small percentage of jp is planted and 63 years old but, most of it is smaller and same age as oak. Old comments- Was cut by 1984 (#058-82A), merch & up on the oak and a trace of RM. The featured canopy is oak & JP regen from the cut, with patchy older residual. The oak regen includes large sapling/small pole stump sprouts and smaller-diameter single-stem saplings. Scattered above the majority sapling canopy are remnant patches of the 1960 planted JP, overmature JP saw, and pole/log aspen. This stand will likely transition into the pole-overall category by next YOE. A couple acres in the stand's W end burned in the late 1990's, visible on the 1998 photos.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	5	Pole	8	
White Oak	10	Pole/Sapling	5	
Black/Red (Hybrid) Oak	40	Pole/Sapling	5	
Jack Pine	42	Pole	7	39
Quaking Aspen	3	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	< 5 feet	Sapling
Serviceberry (Juneberry)	Low	< 5 feet	Tall Shrub
Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
110	42220 - Natural Jack Pine	Poletimber Well	15.7	39	51-80	N/A	Old comments- Was cut by 1984 (#058-82A), merch oak and a trace of RM. The stand regenerated to fairly dense cover in large sapling/small pole JP, with sub-acre patches of aspen along the east side and oak saplings mixing in on the west side. Occasional overmature JP, mostly on the perimeter. The young JP cover has the appearance of being broadcast seeded, but found no FTP record. Not enough of that JP has transitioned into the pole class to call the stand pole overall, but it is close. The oak age was set to the harvest; the aspen likely dates similar.																																																					
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111	4199 - Other Mixed Upland Deciduous	Sapling Well	67.9	15	1-50	N/A	Changed from upland to upland with lowland due to low portion in southwest. Changed from two aged to even aged. Scattered white pine and oak residuals left but, not enough to call stand 2 aged. Old comments- Was cut by 2008 (#063-05), 4" & up except leaving all WO, WP, NWC & green-marked trees. A strip along the stand's south edge east of Poor Farm Road was removed from the harvest area at the golf course's request and by permission of the contract holder. That strip of mature oak is an inclusion (OFS point) within this stand. The golf course was given permission under FTP C72-588 to transplant pine along the south edge of the stand west of Poor Farm Road (OFS point). They moved mostly WP with their truck-mounted tree spade. Regen comments: Stand is regenerating well. Has some aspen (very patchy) mixed in, but is dominated by oak with RM & WP. See M.C.s																																																					
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112	4130 - Aspen	Poletimber Well	18.4	37	81-110	N/A	Stand is still overall pole size with scattered aspen getting log sized. Old comments- Was cut 2" & up in 1986 (#020-86). Nice aspen poles with a small amount of oak. Stand has a sub-acre wetland along the east side (OFS point) and a narrow uncut buffer of mature A-RM-O along the stream floodplain. The stand's poly west of the stream was not part of the 1986 harvest. That uncut portion was not inventoried, but seen while recording survey corners. The ground there is upland, with mature BTA, RM and a few large WP & RP.																																																					
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113	6225 - Bog	Nonstocked	4.6		Immature	No	Leatherleaf bog.																																																					
114	6224 - Treed Bog	Nonstocked	2.9			No	Mostly jack pine in bog. Old comments- Leatherleaf with mountain holly and colonizing JP, RP.																																																					
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115	4131 - Aspen, Oak	Sapling Well	9.1	27	Immature	N/A	Old comments- Was cut merch & up in 1996 (#058-95). Vigorous BTA & oak regen with scattered WP & BF. the conifer cover increases on the west edge.																																														
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116	4130 - Aspen	Poletimber Well	16.2	27	1-50	N/A	Was cut merch & up in 1996 (#058-95). Patches of dense aspen regen are separated by lower-stocked oak sapling cover. Oak regen 3-5' tall continues to fill in. The JP regen is concentrated along the bog stand 125. The stand's NE poly is a patch cut. Part of it burned in the late 1990's, visible on the 1998 imagery. The burnt area is sparser, with more oak than aspen.																																														
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118	4126 - White, Black, N. Pin Oak	Sapling Well	21.1	17	1-50	N/A	Was cut merch & up in 2006 (#047-05). The canopy is two-layered: sapling regen from the cut with large sapling/small pole oak and pole/saw WP residual scattered above it. An uncut buffer rimming the bog stand 113 has pole-sized aspen. The aspen regen is mostly in the north end. The rest of the stand has patches of dense oak regen with sparser seedling oak in between. That <3' component looks to have good potential to recruit. See M.C.s																																														
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119	4131 - Aspen, Oak	Sapling Well	40.4	15	Immature	N/A	Stand gets lower towards the east with open patches of leatherleaf and a stringer of jack pine that runs north/south. Old comments- Was cut in 2008 (#064-05), merch & up except leaving all WO & NWC. The stand had upland oak & aspen cover, with the exception of a 1-3 chain wide strip of mature JP on the SE edge. JP & black spruce are seedling in on the intermediate ground there. The tail end of a lowland brush swale (OFS point) extends into this stand's east-center edge, from the adjacent private. Regen comments: Stand is regenerating in patches. Aspen is spotty. Oak is scattered throughout stand. Most is 5-8' tall. Some areas of oak have been browsed. Some large oak left from sale. See M.C.s																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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120 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 43.7 36 51-80 N/A

Stand is overall pole sized now with pockets of sub-merch oak. Stand has lowlands in southwest and a low swale that runs through the east between stands 127 and 102.

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	2	Pole/Sapling	5	
Quaking Aspen	10	Pole/Sapling	5	
Bigtooth Aspen	18	Pole	6	36
Northern Pin Oak	40	Pole/Sapling	5	36
Balsam Fir	2	Pole	6	
White Pine	10	Pole/Log	9	
Red Maple	8	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Medium	Variable	Sapling
Chokeberry	Low	5 - 10 feet	Tall Shrub
Mountain Holly	Low	5 - 10 feet	Tall Shrub
Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub

Old comments- Was cut 2" & up by 1987 (#023-86). Regen is predominantly oak, with patches of A, JP & WP. Upland overall, but with good access to the water table. Wraps around treed bog and lowland brush stands. Cover varies from 25-50% to 75-100%. The aspen & WP components average pole-sized, but not enough of the oak has transitioned into the pole class to call the stand pole overall. The oak includes large sapling/small pole stump sprouts and smaller-diameter single stem saplings. Parts of the stand have almost 100% oak cover.

121 6120 - Lowland Cedar Sawtimber Medium 5.5 150 111-140 N/A

Merged south west upland aspen cut off by river and private property with stand 121 to meet minimum acreage for forested stands in MIFI.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	2	Log	15	
Paper Birch	4	Log/Pole	10	
White Pine	2	XLog	24	
Bigtooth Aspen	2	Log/XLog	17	
Red Pine	2	Log/XLog	16	
Hemlock	30	Log/Pole	16	
Red Maple	3	Log	15	
Northern White Cedar	55	Log/Pole	12	150

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Paper Birch	Low	5 - 10 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub

Old comments- Floodplain stand with stream flowing through it. Includes steep sideslope up to the high ground. Cedar with hemlock, small amounts of PB, RM. The BTA, RP & oak occur on the terrace top. Inclusion of marsh/lowland brush. Slash from cedar root-tipping. Sign trespass.

122 6132 - Mixed Lowland Forest with Cedar Sawtimber Well 14.5 125 111-140 N/A

Unharvested portion of adjacent stand 73. The west has nice hemlock, cedar, and maple on higher ground that drops down a slope to pine river. South east looks more like the 2-aged stand described below. I also merged small stand west of river with stand 122. Old comments- Aspen-red maple-lowland conifer stand with 2+ age classes across the deciduous species due to variable cutting history. Portions of the stand had merch & up removal of the A-RM-PB between 1962 & 1966, including some marked RP & WP (#061-65). There are pole-dominated areas where the cutting was cleaner, but the cover is log overall (30%+ canopy cover in log-sized stems). The hemlock, cedar, and super-canopy WP were left, representing the oldest components now. There's a ridge of upland ground where the two-track runs, but the stand is lowland overall. The wettest ground is a swale through the stand's north-center where the balsam poplar and dead ash are. The hemlock & NWC are concentrated in pockets along the stand's W & S edges. Did not visit stand's small poly west of the Pine River. The hemlock regen is mostly along the river terrace. A drainage crosses the stand's N end. See M.C.s

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	30	Log/Pole/XLog	14	125
Red Maple	15	Pole/Log	8	
Sugar Maple	3	Log/Pole	10	
Paper Birch	5	Log/Pole	10	
Bigtooth Aspen	15	Log/Pole	10	
Balsam Fir	5	Pole/Log	8	
Northern White Cedar	20	Pole/Log	8	
White Pine	4	XLog	26	
Cottonwood	3	XLog/Log	18	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Hemlock	Low	Variable	Sapling
Wild Raisin	Medium	5 - 10 feet	Tall Shrub
Alder	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
123	4126 - White, Black, N. Pin Oak	Poletimber Well	31.1	36	1-50	N/A	Variable young oak with pockets of older planted jack pine. Stand is pole size overall but with pockets of sapling size oak.																																																																								
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124	4124 - Red with White Oak	Sawtimber Well	6.0	102	81-110	N/A	About 1 acre of aspen west of 2 track was merged with stand 124.																																																																								
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125	6224 - Treed Bog	Nonstocked	2.2			No	Split and merged the lowland white pine off of 128 that was not included in harvest with 125 and changed stand from a bog to a treed bog.																																																																								
							Old comments-Two wetlands connected to meet minimum stand mapping rules. North wetland is a leatherleaf bog being colonized by JP. South wetland has some leatherleaf but is mainly marsh.																																																																								
126	6229 - Mixed lowland shrub	Nonstocked	2.5		Immature	No	Old comments- North end with leatherleaf & JP is treed bog where the two-track crosses through, but overall is mixed lowland shrub with leatherleaf, spiraea, salix, St. John's-wort (Kalm's?).																																																																								
127	6229 - Mixed lowland shrub	Nonstocked	2.8			No	Old comments- Has some leatherleaf, but also spiraea, St. John's-wort (Kalm's?), salix, tag alder, marsh and colonizing JP & aspen.																																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
128	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	7.2	15	1-50	N/A	<p>Following recent harvest residual super canopy 83 year old oaks and white pine were not counted in canopy data. Regen was protected during recent harvest and stand is stocked between skid trails. Estimated established regen around 15 years old. Stand was cut recently under West of Grade #72-047-19, but sale is still open.</p> <p>Old comments- JP planted in 1960, in natural openings and weaving around open-grown oak. The stand's west couple acres were unplanted; the overmature JP, some large WP & RP are there. The far west edge trails down onto the bog and has smaller naturally-established JP. The stand's east poly picks up the more intact portion of the plantation that was left in a 1980's oak harvest area. The planted JP is poor-quality, with crook & persistent dead limbs. Oak is filling in below the planted JP, and WP is filling in on the unplanted west end. Planted JP SI 45.</p>																																																																								
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129	6222 - Shrub-Carr	Nonstocked	10.2		Immature	No	Ilex with some tag alder, sparse paper birch & tamarack.																																																																								
130	710 - Sand, Soil	Nonstocked	48.2		Immature	No	Old comments- Former Kings Corner gravel pit. Shallowly-excavated area with remnant and colonizing patches of oak, pine, aspen. See M.C.s																																																																								
132	622 - Lowland Shrub	Nonstocked	4.2			No	Wet shrubby lowland swale with scattered trees.																																																																								
133	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	39.7	66	51-80	N/A	<p>Changed stand to lowland with uplands due to some high ground jack pine/white pine on the south side. Most of stand very wet and variable depending on water table. Old comments- Marginal E type; predominantly RM & PB poles (with some larger cull saw) and tamarack. PARVCo at the drier, supporting the occasional oak, but with lower ground inclusions. The stand has sub-acre pockets of dense NWC pole cover. Swath of windthrow up the stand's middle. Second age is from the previous inventory on cedar. Canopy closure drifts on either side of the 50-75% category. Thick L3 below the RM, PB & tamarack. Former ash swale in the stand's NE is sparse now, with mostly tamarack remaining.</p>																																																																								
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135	6229 - Mixed lowland shrub	Nonstocked	6.4		Immature	No	Leatherleaf, spiraea, salix, ilex, aronia, St. John's-wort (Kalm's?), rimmed with mature JP.																																																																								
136	6220 - Alder/willow	Nonstocked	14.0			No	<p>There's 1 acre of upland oak too small to make a separate stand and that's inaccessible located in the southeast corner of stand.</p> <p>Old comments- Salix, tag alder with ilex. Sub-acre forested inclusion (probably cedar) in the stand's SE corner.</p>																																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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137 4130 - Aspen Sapling Well 11.4 16 Immature N/A 2 acres of older aspen west of 2 track merged with stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	2	
Bigtooth Aspen	81	Sapling	3	16
Black/Red (Hybrid) Oak	10	Sapling	2	
White Oak	2	Log	12	
White Pine	2	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Black Cherry	Low	5 - 10 feet	Tall Shrub
White Oak	High	< 5 feet	Sapling

Old comments- Was cut in 2007 (#062-05), 4" & up except WO, WP & NWC. Aspen with some oak sprouts. Not as much browse as expected considering swamp proximity -- light overall. Residual white oak & some WP scattered across the stand, along with an uncut buffer of mature oak & aspen left along the swamp edge.

138 4125 - Black, N. Pin Oak Sapling Well 18.7 15 1-50 N/A Changed stand to even aged with scattered super-canopy oaks.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	26	Sapling	2	
Black/Red (Hybrid) Oak	60	Sapling	2	15
White Pine	4	Sapling	3	
Jack Pine	10	Sapling	2	

Old comments- Was cut in 2008 (#064-05), merch & up except WO & green-marked trees (mixed oak, WP & RP), to a stated residual of 20 sq. ft. The stand has two uncut inclusions: a sub-acre patch of oak-aspen that fell outside the harvest boundary's NE edge, and a strip of mature JP-O-BTA along the bog stand 135 that was removed from the harvest contract at the request of the golf course and with permission of the contract holder. Second age is from the previous inventory. There's a large aspen clone in the stand's middle. The harvest left mature oak residual scattered across the stand.

140 4191 - Mixed Upland Deciduous with Conifer Sawtimber Medium 15.5 70 51-80 N/A Stand was acquired recently. Over mature jack pine and aspen in the west. Eastern tip is a poor quality oak/maple mix with good white pine sub canopy.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	15	Log/Pole	10	
Red Maple	10	Log/Pole	10	
Bigtooth Aspen	36	Log	11	70
Black Spruce	2	Log/Pole	10	
Balsam Fir	2	Log/Pole	10	
Jack Pine	30	Log	12	
White Pine	5	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Serviceberry (Juneberry)	Trace	10 - 20 feet	Sapling
Balsam Fir	Trace	< 5 feet	Sapling

144 4131 - Aspen, Oak Poletimber Well 14.3 37 1-50 N/A Middle of stand is still sub-merch with struggling quaking aspen. There's a pocket of aspen mortality in the narrowest portion towards center of stand. South half is healthy mix of bigtooth aspen and oak. Old comments- Was cut 2" & up in 1986 (#017-86). A-O-JP stand not transitioned far enough into the pole class to call pole overall. Some of the BTA clones are there already, and some of the oak stump sprouts too, but the rest is borderline.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	2	Pole	6	
Northern Pin Oak	20	Pole/Sapling	6	
Bigtooth Aspen	58	Pole	7	37
Jack Pine	5	Sapling/Pole	4	
Quaking Aspen	15	Sapling/Pole	4	37

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Northern Pin Oak	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
145	42220 - Natural Jack Pine	Poletimber Well	24.2	37	51-80	N/A	JP is pole sized and looks healthy. Called stand upland with lowland due to transition strip between 145 and lowland 147. Old comments- Was cut 2" & up in 1986 (#017-86). FTP was then submitted to plant or seed JP, but recon found natural regen to be filling in well. The stand has large sapling/small pole JP on ground with good access to the water table. Not enough has transitioned into the pole class to call the stand pole overall. The cover is a little sparser on the drier ground up the middle, with some oak mixing in. The JP is colonizing the lowland brush stand along the east edge.																																																	
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147	6229 - Mixed lowland shrub	Nonstocked	9.7			No	Old comments-Salix, tag alder, aronia, ilex, leatherleaf, with JP colonizing from the west and small patches of tamarack, black spruce and RM poles up the middle. Old pieces of vinyl siding tacked on snags/trees up through the middle.																																																	
148	4130 - Aspen	Sapling Well	41.5	6	1-50	N/A	Stand met regen objectives for aspen. Residual X-log oaks scattered throughout. Pocket of white pine located in northeast. Sale Name: Wissmiller Aspen (72-056-15). Sale cut in 2017 by T.I. Forest Products. Sale closed 06/18/2018. Old comments- Aspen-oak stand w/ paper birch, RM & a scattering of pine. Two+ age classes across main species due to variable cut history: 3 harvests occurred across portions of the stand between 1963 & 1968 (#069-62, 079-66, 045-67). The harvests ranged from merch & up on the A-RM-PB, to 12" & up on the aspen and log & up on the oak except for leaving 5 oak saw per acre for mast. Older aspen cored at 70 years old, but the aspen component regenerated from the harvest is 45-50 years old; the oak has similar immature to overmature components. I did not break out the A-O by age classes. 16" red oak cored at 46 years -- very nice quality, clean-boled 91 feet tall. Some of the oak saw left for mast back in the 60's are massive, open-grown, heavy-limbed specimens. Aspen & oak cover swaps dominance across the stand. The PB occurs in dense patches. The RM is mostly over-sized pulp. Large WP & RP are mostly in the stand's NE. Trace of beech & hard maple. High-end site for aspen-oak.																																																	
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