



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53005

Entry Year 2026

Acreage: 1,955

County: Cheboygan

Management Area: Presque Isle Lake and Till Plains

Stand Examiner: Greg Rekowski

Legal Description:

T34N R01W Sections 14, 23, 26 & 35

Identified Planning Goals:

Maintain current species mix and apply appropriate management techniques to mature stands of timber that are in need of treatment.

Soil and topography:

Uplands are generally rolling to mostly level with some relatively steep terrain in the north end of section 23. Soils are predominantly Rubicon sands in the uplands with smaller amounts of Kalkaska, Croswell, and AuGres sands. Tawas peat and Roscommon muck constitute most of the lowland soils.

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

Solid State ownership throughout the Compartment, but is adjacent to private land to the north.

Unique Natural Features:

The pine imperial moth has the potential to occur in this Compartment.

Archeological, Historical, and Cultural Features:

No archeological, historical, or cultural features are known to occur in this Compartment.

Special Management Designations or Considerations:

None have been designated in this Compartment.

Watershed and Fisheries Considerations:

Weed Creek and the Lewis Branch of Adair Creek, both cold water streams, flow through the Compartment and are part of the Black River watershed.

Wildlife Habitat Considerations:

A Wildlife Division representative will be available to participate in the formal Compartment review.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the State. Active State-owned and private sand & gravel pits exist just over one mile north. Potential for sand & gravel exists in the Compartment, but commercial development involving use of the surface is not allowed. The Antrim Shale is thin to absent beneath the Compartment and likely has limited potential for gas production. The Silurian reef trend is several miles to the southeast. There is no known history of past oil & gas exploration or development in the vicinity of the Compartment. State land in the Compartment and surrounding area cannot be utilized for drilling operations, so oil & gas development opportunities are limited. State-owned mineral rights in Section 14 can be leased, with no surface development allowed, but the rest of the Compartment is classified as non-leasable. Any decisions on future mineral exploration and development within the Compartment shall be consistent with the Concept of Management for the Pigeon River Country.

Vehicle Access:

There is good access to most, if not all, of the Compartment. Most roads, however, have been closed to wheeled motorized vehicles with virtually all those closures still intact.

Survey Needs:

None required.

Recreational Facilities and Opportunities:

The High Country Pathway passes through Section 35. The primary recreational pursuit in this area is hunting.

Fire Protection:

Access is good in case of any fire suppression efforts. Nearly half of this Compartment is dominated by the red pine cover type and as a result the wildfire risk is elevated in these areas.

Additional Compartment Information:

Natural red pine is abundant throughout this Compartment, with several stands being in a multi-aged condition. Most, if not all, of these stands will be managed for natural pine objectives, using a variety of silvicultural techniques that will result in mixed-age stands. In addition, some stands may be managed on a longer rotation to promote bigger trees and old-growth like structure.

Section 14 was previously a part of the Indian River management unit but was merged into the Pigeon River Country following unit boundary re-adjustment in 2021.

The following reports from the Inventory are attached:

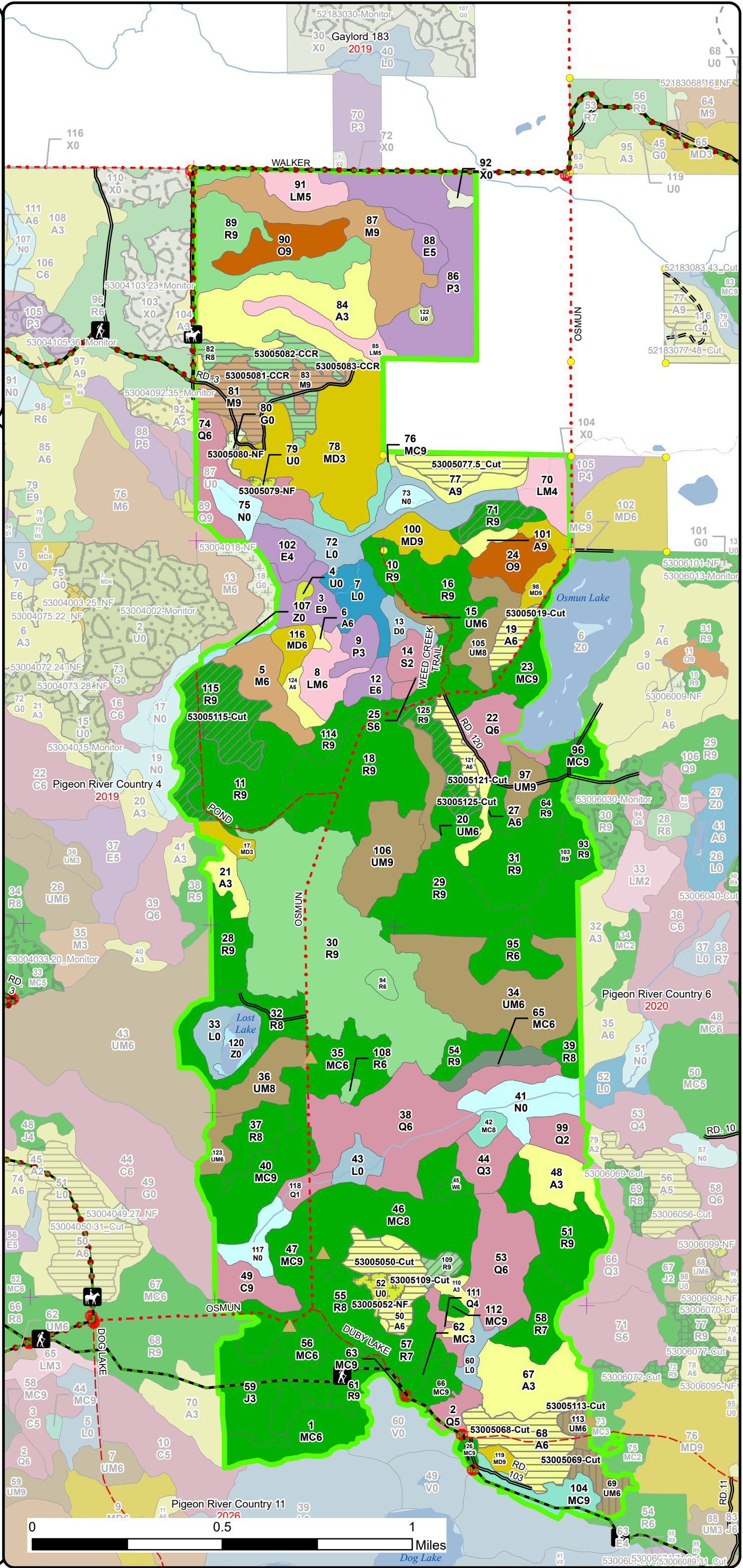
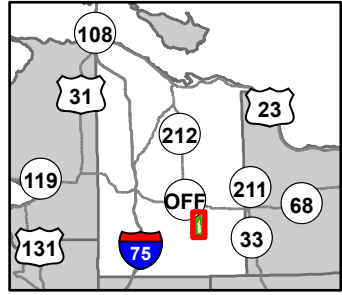
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

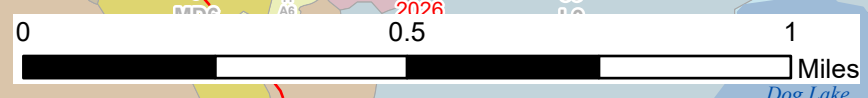
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 53005
 T34N, R1W, Sec: 14, 23, 26
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Presque Isle Lake and Till Plains
 YOE: 2026
 Acres: 1954.6 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 08/27/2024
 Map Phase: Post Review

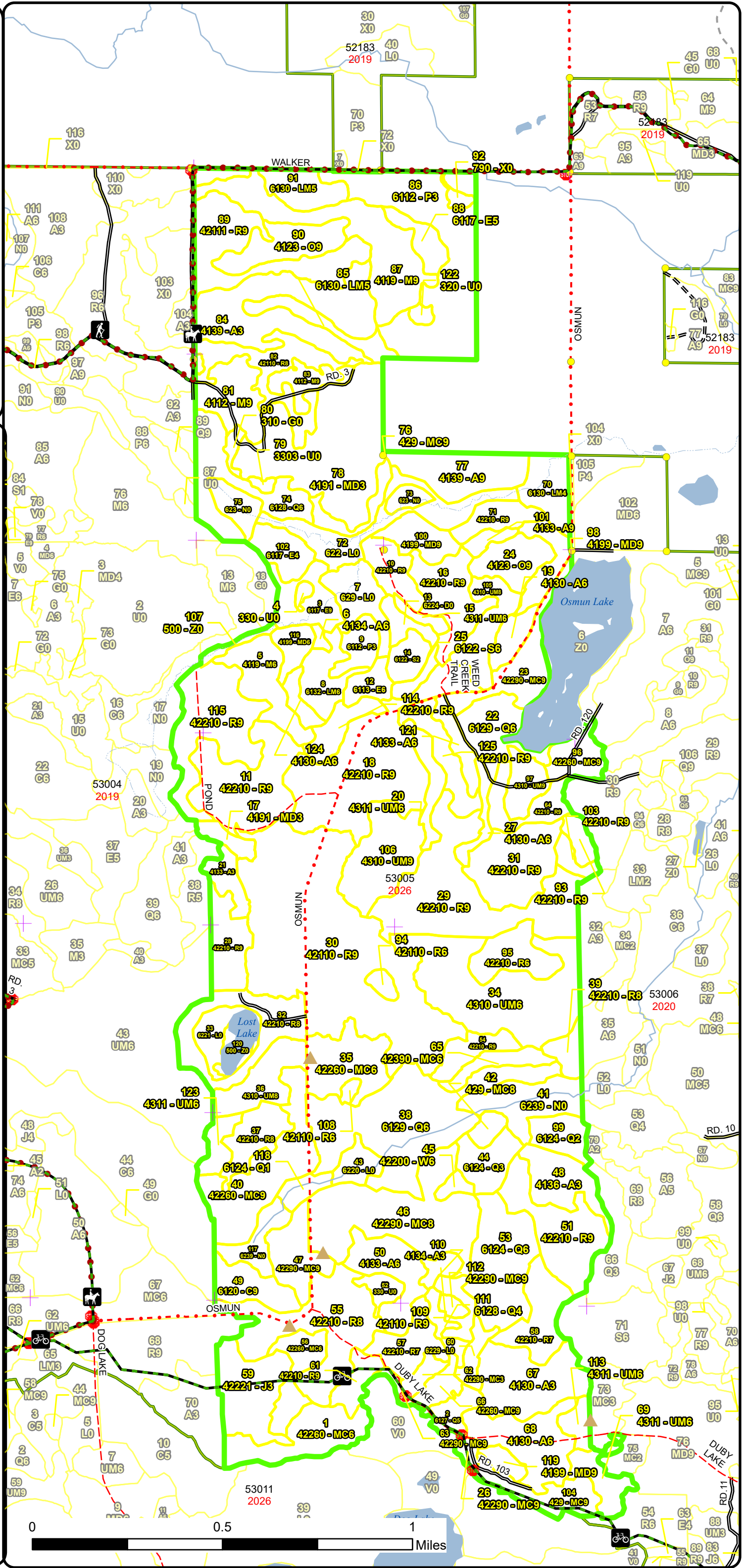
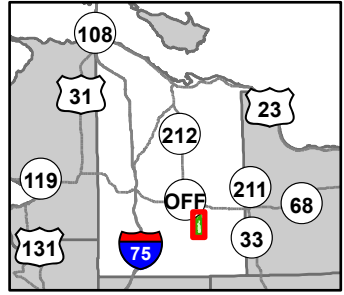


- Berms
- Sign
- Survey Grade Corners
- Remonumented Section Corners
- Hiking Trails
- Bike Trails
- Horse Trails
- Ski Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland
- 790 - Other Bare/Sparsely Vegetated

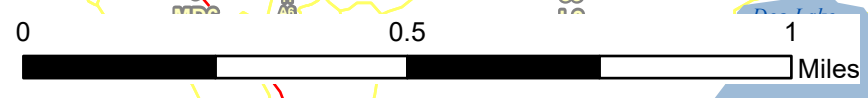


Stand Boundary Map

Compartment: 53005
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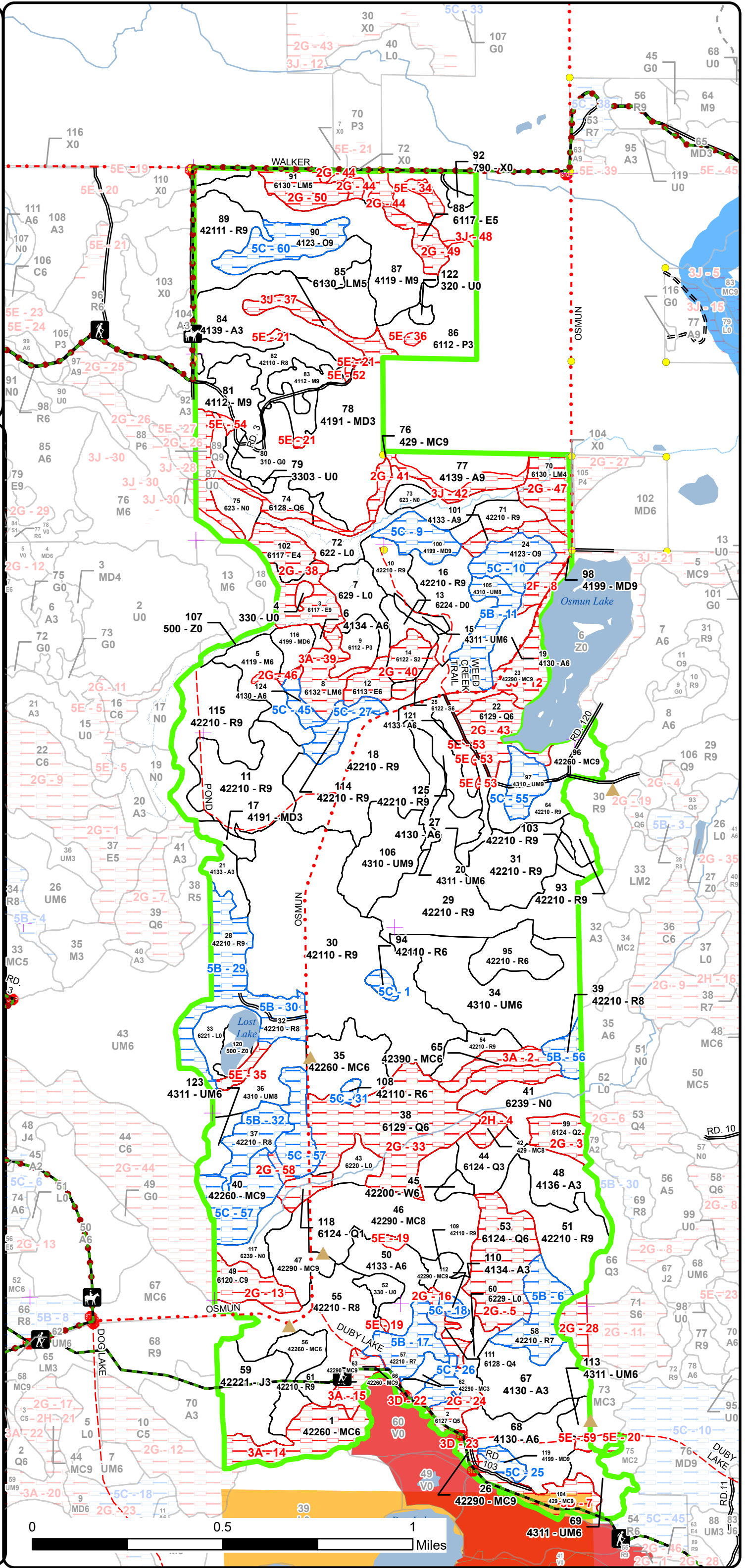
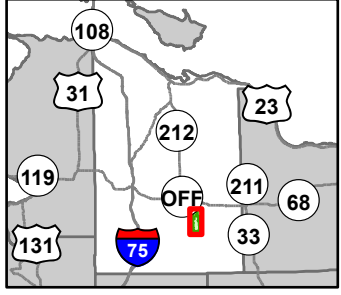


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- Stand Boundaries
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- State Forests

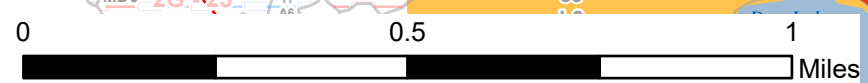


Special Conservation Areas & Site Conditions Map

Compartment: 53005
 T34N, R1W, Sec: 14, 23, 26
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Presque Isle Lake and Till Plains
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 - Private - Dirt / Gravel Road
 - Intermittent Stream
 - Lake/Pond
 - Perennial River
 - Lakes and Rivers
 - Compartment Boundary
 - Available w/ Constraints
 - Unavailable
- 5B: Maintain for regeneration purposes



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	28	0	69	7	13	51	0	7	22	0	0	0	0	0	0	0	0	197
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	12
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Aspen/Balsam Poplar	0	0	57	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65
Lowland Conifers	0	0	0	0	27	0	0	24	7	22	31	61	0	0	0	0	0	0	171
Lowland Deciduous	0	0	0	0	0	0	0	18	0	0	19	0	0	0	0	0	0	0	37
Lowland Mixed Forest	0	0	0	0	0	0	13	12	0	0	0	9	0	0	0	0	0	13	46
Lowland Shrub	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Lowland Spruce/Fir	0	0	0	0	0	7	0	0	3	0	0	0	0	0	0	0	0	0	10
Marsh	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Mixed Upland Deciduous	0	0	0	0	64	0	0	0	7	0	25	0	0	0	0	0	0	0	95
Natural Mixed Pines	0	0	0	4	0	0	0	31	140	0	9	0	0	0	0	0	0	15	198
Northern Hardwood	0	0	0	0	0	0	0	0	18	0	64	0	0	0	0	0	0	0	82
Oak	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	31
Red Pine	0	0	0	0	0	0	57	156	282	0	63	32	19	0	0	0	0	62	671
Treed Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Conifers	0	0	0	0	0	0	7	0	4	7	14	0	0	0	0	0	0	0	32
Upland Mixed Forest	0	0	0	0	0	17	16	56	42	0	24	0	0	0	0	0	0	0	155
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
White Pine	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	126	28	81	81	101	37	144	297	510	51	280	115	19	0	0	0	0	90	1955



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 186
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	69	0	0	0	0	0	0	0	0	69
Mixed Upland Deciduous	1	0	0	0	0	0	0	0	0	1
Northern Hardwood	24	0	0	0	0	0	0	0	0	24
Red Pine	21	0	0	0	57	0	0	0	0	79
Upland Mixed Forest	0	0	0	13	0	0	0	0	0	13
Total	115	0	0	13	57	0	0	0	0	186

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	186	0	0	0	0	0	0	8	0	194
Next Step	0	139	139	0	0	175	0	0	0	454
Total	186	139	139	0	0	175	0	8	0	647



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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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Proposed Treatments:

19	53005019-Cut	7.0	4130 - Aspen	Poletimber Well	47	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut, no area retention due to the small size of the stand. Mark to leave 3-5 oak, red pine, and white pine per acre, in groups if possible.

Specs: Leave the largest diameter, best quality trees. Mark poor quality aspen and/or oak as cut and leave trees for drumming logs, at least 1 per acre.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Fully-stocked stand of aspen with any additional mix of species being acceptable.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

50	53005050-Cut	17.3	4133 - Aspen, Mixed Pine	Poletimber Well	55	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut. Mark to leave scattered red and white pine, focus on leaving the largest diameter trees and leave in clumps if possible. Add legacy

Specs: tree specs as there may be a handful of red and white pine trees that qualify. Do not cut oak. Add retention along the edges in the desired areas in the site conditions layer. Mark poor quality aspen as cut and leave trees for drumming logs and hare habitat.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Fully-stocked stand dominated by aspen with any additional mix of species being acceptable.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

52	53005052-NF	4.6	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	320 - Upland Shrub		No
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Prescription Maintain the non-forested condition of this stand either through burning, herbicide, planting, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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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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68	53005068-Cut	24.3	4130 - Aspen	Poletimber Well	57	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut, no area retention. Do cut any oak, or any white pine or red pine over 20" DBH. Mark scattered aspen trees of poor form as cut and
Specs: leave trees for drumming logs and hare habitat, at least 1 per acre. Expect the south boundary to change, as some additional areas of mostly oak should be excluded. Add trail specs.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Fully-stocked stand dominated by aspen with any additional mix of species being acceptable.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

69	53005069-Cut	9.3	4311 - Pine, Aspen Mix	Poletimber Well	57	141-170	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Mark to leave 20-40 square feet of red oak, red pine, and white pine, both as individual trees and in clumps. Leave all relict red and white
Specs: pine over 20" DBH. Mark to leave poor quality aspen and/or oak as cut and leave trees for drumming logs and hare habitat, at least 1 tree per acre. Leave the narrow part of the stand in the northeast as retention.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of aspen, pine, or other deciduous species resulting in a fully-stocked stand.

Regen:

Other

Comment:

Add oak wilt specs. Add hiking trail specs.

Encourage as much ground scarification as possible, by requiring chipping of tops in snow-free conditions (July 15-Jan 1).

Site Condition:

Proposed Start Date: 10/1 /2025

78	53005078-CC	1.2	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	32	1-50	Harvest	Clearcut	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
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Prescription Clearcut, no retention (small acreage)

Specs:
 - Harvesting this portion of Stands 78/80 will simplify future planting operations. Use the Forest Rd as a boundary.
 - Leave incidental white pine and any oak/hemlock
 - Include chipping (w/exemptions) and 6" stump height specs
 - Use Rec. Trail protection specs (hiking & horse trail nearby)

Next Step SitePrep, Roller Chopping; Planting, Unfurrowed; SitePrep, Trenching; Planting, Initial Plant; Planting, Hardwood - Sapling; SitePrep,

Treatments: Other - Specify; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Planted red pine meeting minimum stocking standards with inclusions of desirable deciduous species. Prior to initial planting site prep,
Regen: identify pockets of desirable species (not beech and ironwood) that have regenerated near or above browse height. Exclude these pockets from mechanical site prep treatment. If possible, try to locate these exclusions near boundary locations. Consider interplanting oak saplings before, during and/or after initial red pine planting.

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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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
81 53005081-CCR	16.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	92	81-110	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut w/Retention</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - Boundary excluded retention already identified/designated - Leave incidental white pine, oak and any hemlock - Include chipping (w/exemptions) and 6" stump height specs - Use Rec. Trail protection specs (hiking & horse trail nearby) <p><u>Next Step</u> SitePrep, Roller Chopping; Planting, Unfurrowed; SitePrep, Trenching; Planting, Initial Plant; Planting, Hardwood - Sapling; SitePrep, Treatments: Other - Specify; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Planted red pine meeting minimum stocking standards with inclusions of desirable deciduous species. Prior to initial planting site prep, identify pockets of desirable species (not beech and ironwood) that have regenerated near or above browse height. Exclude these pockets from mechanical site prep treatment. If possible, try to locate these exclusions near boundary locations. Consider interplanting oak saplings before, during and/or after initial red pine planting.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
82 53005082-CCR	21.2	42110 - Planted Red Pine	Sawtimber Medium	58	81-110	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut w/Retention- Boundary excluded retention already identified/designated- Leave incidental white pine, oak and any hemlock-</p> <p><u>Specs:</u> Include chipping (w/exemptions) and 6" stump height specs- Use Rec. Trail protection specs (hiking & horse trail nearby)</p> <p><u>Next Step</u> SitePrep, Roller Chopping; Planting, Unfurrowed; SitePrep, Trenching; Planting, Initial Plant; Planting, Hardwood - Sapling; SitePrep, Treatments: Other - Specify; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Planted red pine meeting minimum stocking standards with inclusions of desirable deciduous species. Prior to initial planting site prep, identify pockets of desirable species (not beech and ironwood) that have regenerated near or above browse height. Exclude these pockets from mechanical site prep treatment. If possible, try to locate these exclusions near boundary locations. Consider interplanting oak saplings before, during and/or after initial red pine planting.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
83 53005083-CCR	7.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	92	111-140	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut w/Retention</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - Boundary excluded retention already identified/designated - Leave incidental white pine, oak and any hemlock - Include chipping (w/exemptions) and 6" stump height specs - Use Rec. Trail protection specs (hiking & horse trail nearby) <p><u>Next Step</u> SitePrep, Roller Chopping; Planting, Unfurrowed; SitePrep, Trenching; Planting, Initial Plant; Planting, Hardwood - Sapling; SitePrep, Treatments: Other - Specify; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Planted red pine meeting minimum stocking standards with inclusions of desirable deciduous species. Prior to initial planting site prep, identify pockets of desirable species (not beech and ironwood) that have regenerated near or above browse height. Exclude these pockets from mechanical site prep treatment. If possible, try to locate these exclusions near boundary locations. Consider interplanting oak saplings before, during and/or after initial red pine planting.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										



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109	53005109-Cut	3.9	42110 - Planted Red Pine	Sawtimber Well	73	141-170	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
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Prescription Crown thin to 100-110 square feet. Focus on removing suppressed poletimber and manage for the best tree in place. Do not mark any of the relict, larger diameter red and white pine (18"+ DBH).

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

113	53005113-Cut	4.1	4311 - Pine, Aspen Mix	Poletimber Well	57	111-140	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription Mark to leave 20-40 square feet of red and white pine, both as individual trees and in clumps, some of these clumps should capture better quality poletimber that isn't overtopped by aspen. Leave all relict red and white pine over 20" DBH. Leave all oak. Mark to leave a few aspen that have lots of rot and cavities. Exclude the part of the stand south of the road, which has dense white pine regeneration, as retention.

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

Acceptable Any mix of pine, aspen, and other deciduous species resulting in a fully-stocked stand.
Regen:

Other Add oak wilt specs.
Comment:

Encourage as much ground scarification as possible, by requiring chipping of tops in snow-free conditions.

Site Condition:

Proposed Start Date: 10/1 /2025

115	53005115-Cut	34.5	42210 - Natural Red Pine	Sawtimber Well	73	141-170	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
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Prescription Thin to 100-110. Thin from below, focusing on removing suppressed red pine poletimber stems. Retain the larger diameter trees (18"+ DBH) in the older age class. Do not mark any oak and avoid marking white pine as much as possible, except for suppressed poletimber stems.

Next Step
Treatments:

Acceptable
Regen:

Other Exclude areas of wet ground along the west edge and leave a 1/2-1 chain buffer along the swamp edge.
Comment:

Expect the southern boundary of the treatment to shift as there may be additional areas to include or exclude.

Site Condition:

Proposed Start Date: 10/1 /2025



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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
121 53005121-Cut	6.4	4133 - Aspen, Mixed Pine	Poletimber Well	70	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut. Leave a few small areas of retention (<0.2 acres in size) in areas of pure pine along the east edge (desired areas in site conditions layer). Mark to leave 3-5 oak, red pine, and white pine per acre, in groups if possible. Leave the largest diameter, best quality trees. Do not cut any incidental birch or spruce. Mark to leave aspen cavity/den trees that are scattered throughout. Mark poor quality aspen and/or oak as cut and leave trees for drumming logs and hare habitat, at least 1 per acre.</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> Fully-stocked stand of aspen with any additional mix of species being acceptable.</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 /2025</p>										
125 53005125-Cut	12.4	42210 - Natural Red Pine	Sawtimber Well	70	141-170	Harvest	Crown Thinning	4221 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to 110-120 square feet. Focus on thinning from below, removing smaller diameter, suppressed stems. Do not cut any oak. Only remove those aspen that are necessary for operational access.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Approved Treatments:

71 53005071.6_C ut	6.6	42210 - Natural Red Pine	Sawtimber Well	100	141-170	Harvest	Crown Thinning	4221 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand to 80 - 100 RBA. Leave White Pine, oak, and aspen. Target Red Pine marking in the largest and smallest diameter size classes. Cut during the summer (June 1st - October 1st) to scarify the soil for possible natural Red Pine regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</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
77 53005077.5_C ut	13.9	4139 - Aspen, Mixed Deciduous	Sawtimber Well	88	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest stand to regenerate. Do not cut oak or Red Pine for stand structure diversity. Also mark some White Pine to leave. Leave a 300 foot 'no cut' buffer along Weed Creek to discourage beaver activity and for stand retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes a moderate to well stocked stand of aspen, pine, and deciduous species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2018</p>										
79 53005079-NF	1.3	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow, plant, burn,brush, or herbicide to maintain openings. Plant hard and soft mast.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2018</p>										
80 53005080-NF	1.8	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow, plant, burn,brush, or herbicide to maintain openings. Plant hard and soft mast.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2018</p>										

Total Treatment 193.8
Acres Proposed:



Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions									
		With Condition				5B	5C	2F	2G	2H	3A	3D	3J	5E	
197	180	4		13	Aspen		4	3	1					8	2
2	2	0		0	Bare/Sparsely Vegetated										
12	0	0		12	Cedar				12						
2	2	0		0	Herbaceous Openland										
24	24	0		0	Jack Pine										
7	7	0		0	Low-Density Trees										
65	57	0		9	Lowland Aspen/Balsam Poplar				5						4
171	23	0		148	Lowland Conifers				148						
37	0	0		37	Lowland Deciduous				37						
46	0	0		46	Lowland Mixed Forest				24		12			9	
59	59	0		0	Lowland Shrub										
10	0	0		10	Lowland Spruce/Fir				10						
40	40	0		0	Marsh										
95	71	15		10	Mixed Upland Deciduous		15	10	0						
199	113	40		45	Natural Mixed Pines		40		1		22	5		17	
82	80	0		2	Northern Hardwood				1						1
31	0	31		0	Oak		31								
669	561	97		12	Red Pine	84	13				7				5
5	5	0		0	Treed Bog										
32	2	0		30	Upland Conifers				5	4	7	14			
154	128	24		2	Upland Mixed Forest	15	9								2
2	2	0		0	Upland Shrub										
9	9	0		0	Water										
3	3	0		0	White Pine										
1,955	1,367	210		377	Total Forested Acres	98	112	13	245	4	49	19	34	13	
	70%	11%		19%	Relative Percent										

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



2	Unavailable	3A: Conservation Values incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5B: Maintain for regeneration purposes	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



7	Unavailable	3D: Recreational / Scenic values	14	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Directly borders documented ERAs in the Dog Lake Marsh and the High Country Pathway traverses the length of the stand. Do not manage.							
8	Unavailable	2F: Too steep	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments:							



13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3A: Conservation Values incompatible with harvest at this time	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3A: Conservation Values incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Boundary excluded long-term retention for the timber sale occurring within Stand 82.							
22	Unavailable	3D: Recreational / Scenic values	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	3D: Recreational / Scenic values	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	5B: Maintain for regeneration purposes	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



32	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	66	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for Stand 54							
35	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lake buffer that was not harvested when the rest of stand 32 was.							
36	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for Stand 54.							
37	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: 3J 'Water quality/BMPs' and 2G 'Too wet' site condition(s) covering this stand (85). Stand is 'Too wet' to support conventional harvest equipment and is a seasonal watercourse/drainage. Water moves east onto adjacent private property.							



38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	3A: Conservation Values incompatible with harvest at this time	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Leave unmanaged due to the multi-aged structure as well as the cedar component. There are also some areas of wet, inoperable ground in the stand.							
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: 2G and 3J site conditions covering the areas of Stands 74/76 that are too wet to support conventional harvest equipment. Also, an old R.R. Grade is present within both stands and has contributed to making areas inoperable.							
42	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							



43	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Portions of Stand 86 that were 'Too wet' to harvest during '13 timber sale and were 'skipped' by the producer. Also lack merchantable/mostly small diameter, sap/pole stems.							
45	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet drainage.							
47	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



48	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Seasonal drainage observed during inventory, March of '24. Was moving water west to east.							
49	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Seasonally wet with very limited merchantability.							
50	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Too wet with limited merchantability.							
52	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Boundary excluded long-term retention for the timber sale occurring within Stand 83.							
53	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
54	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Boundary excluded long-term retention for the timber sale occurring within Stand 81.							



55	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
56	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
57	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Thin next entry.							
58	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet drainage.							
59	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
60	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	21.8	73	81-110	N/A	Mixed species stand that is not well-stocked in all places. Jack pine used to be a bigger component of the stand but some have died over the years. Aspen is mostly found at the far east and west ends of the stand. Areas of wet ground can be found along the southern edge and is where more of the spruce and fir is located, along with older red and white pine. Lots of huckleberry in some areas of the understory. Average ba/acre from 14 plots = 89 square feet. Due to its proximity to the Dog Lake Marsh, this stand should remain unmanaged.																																																																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Jack Pine</td><td>13</td><td>Pole/Log</td><td>8</td><td>61</td></tr> <tr><td>Paper Birch</td><td>1</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Black Spruce</td><td>2</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>Red Oak</td><td>11</td><td>Log</td><td>14</td><td></td></tr> <tr><td>Quaking Aspen</td><td>5</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>Balsam Fir</td><td>2</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>Red Pine</td><td>36</td><td>Log/Pole/XLog</td><td>12</td><td>73</td></tr> <tr><td>Bigtooth Aspen</td><td>14</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>White Pine</td><td>16</td><td>Pole/Log/XLog</td><td>9</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Jack Pine	13	Pole/Log	8	61	Paper Birch	1	Pole	8		Black Spruce	2	Pole	7		Red Oak	11	Log	14		Quaking Aspen	5	Pole	6		Balsam Fir	2	Pole	6		Red Pine	36	Log/Pole/XLog	12	73	Bigtooth Aspen	14	Pole/Log	9		White Pine	16	Pole/Log/XLog	9		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Red Pine</td><td>Trace</td><td>>20 feet</td><td>Sapling</td></tr> <tr><td>Black Spruce</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Trace	>20 feet	Sapling	Black Spruce	Low	Variable	Sapling	White Pine	Medium	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling																									
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Balsam Fir	Medium	Variable	Sapling																																																																																																
2	6127 - Lowland Pine	Poletimber Medium	6.5	72	51-80	N/A	Kind of a mixed up stand that has wet ground running down the middle with some non-forested patches dominated by alder, and then strips of upland along the edges with a mix of species. Some of the upland areas are heavier to pine, others to red maple. Trace of paper birch (pole/sap). Average ba/acre from 8 plots = 79 square feet. No management due to the wet ground.																																																																																												
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3	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	12.9	94	81-110	N/A	Diverse stand that is mostly lowland in the east half, and a mix of upland and lowland in the west half. Aspen can be found throughout the stand, most are very large and overmature with lots of rot, providing great habitat for wildlife. Fir and basswood are more prevalent in the east half, with some of the basswood being very large diameter (20"+ DBH). The west half is more of an aspen/red maple/paper birch mix and mostly upland ground, except for a north/south running wet drainage. Weed Creek flows from the west to the east/northeast through the entire south end of the stand. Trace of black cherry (pole), ironwood (pole), tamarack (log), and white spruce (pole/log) in the canopy. Average ba/acre from 10 plots = 105 square feet. No management due to Weed Creek and the abundance of wet soils in the stand.																																																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																	
4	330 - Low-Density Trees	Nonstocked	1.4		Unspecified	No	Old opening that has filled in with trees in the south half. The north half is still somewhat open in the middle. No recent management has taken place in this stand.																	
								Sub-Canopy Species	Density	Avg. Height	Size													
								Balsam Poplar	Low	Variable	Sapling													
								Serviceberry (Juneberry)	Trace	Variable	Tall Shrub													
								White Pine	Low	>20 feet	Pole													
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								Red Pine	Trace	>20 feet	Pole													
								Balsam Poplar	Trace	>20 feet	Pole													
								Black Cherry	Trace	Variable	Tall Shrub													
								Bracken Fern	Medium	Unspecified	Non-Wood													
								Balsam Fir	Low	Variable	Sapling													
								Red Pine	Trace	>20 feet	Log													
								Quaking Aspen	Trace	Variable	Sapling													
5	4119 - Mixed Northern Hardwoods	Poletimber Well	17.9	73	81-110	N/A	Relatively diverse hardwood stand of mediocre quality, and dominated by red and sugar maple. Red maple is abundant in the southern 2/3rds of the stand while the northern 1/3rd looks more like a typical northern hardwood stand with sugar maple common and basswood and beech as associates. Diameters on the maple are small for the most part, generally less than 8" DBH, but there are a few sawlog-sized trees here and there. Suppressed maple saplings, as old as the larger trees, are abundant. A supercanopy of large diameter pine is scattered infrequently throughout. There appears to be 2 ages of aspen present although there are no records for a harvest in this stand. Average ba/acre from 9 plots = 110 square feet. Terrain slopes gently down to the east, except for the north end which has steep slopes down to a creek. A wet drainage in a small ravine flows west to east through the middle part of the stand, into adjacent stand 116. This stand will be available for a thinning at some point in the future, possibly next entry. At this time there are too many small diameter trees to justify a treatment.																	
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size								
								Red Oak	2	Log/XLog	16		White Pine	Trace	Variable	Sapling								
								Sugar Maple	22	Pole/Sap/Log	7	73	Leatherwood	Low	< 5 feet	Tall Shrub								
								Red Pine	10	Log/XLog/Pole	15	117	Red Maple	Low	>20 feet	Sapling								
								Basswood	3	Log/Pole	12		Sugar Maple	Medium	>20 feet	Sapling								
								Bigtooth Aspen	3	Log/Pole	11		Beech	Low	5 - 10 feet	Sapling								
								Paper Birch	10	Pole/Log	9		Ironwood	Medium	Variable	Sapling								
								Beech	4	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling								
								Quaking Aspen	10	Log/Pole	13													
								Red Maple	31	Pole/Sap/Log	8	73												
								White Pine	3	Log/Pole	13													
								Balsam Fir	1	Pole	6													
								Ironwood	1	Pole	5													
								6	4134 - Aspen, Spruce/Fir	Poletimber Well	1.4	47	141-170	N/A	Small stand of aspen/fir that was cut by Wildlife Division in 1977. A few larger, residual red maple and fir are scattered throughout. Trace of red pine (xlog) and white pine (log/xlog) in the overstory. Average ba/acre from 3 plots = 150 square feet.									
																Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
																White Spruce	2	Pole	7		Balsam Fir	Medium	Variable	Sapling
																Quaking Aspen	46	Pole/Sapling	7	47	Serviceberry (Juneberry)	Trace	Variable	Tall Shrub
																Balsam Poplar	4	Pole	6		Red Maple	Low	>20 feet	Sapling
Balsam Fir	30	Pole/Log	8																					
Bigtooth Aspen	4	Pole	8																					
Red Maple	13	Pole/Sap/Log	6																					
Paper Birch	1	Pole	6																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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7	629 - Mixed non-forested wetland	Nonstocked	13.9		Unspecified	No	The north edge of this stand is an active beaver dam and there is an area of ponded water behind the dam. The remainder of the stand is a mix of sedges, alder, and cattails. Unfortunately there are also several patches of invasive phragmites along the western edge of the stand.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Phragmites (exotic)	Low	Unspecified	Non-Wood
								Sedges	High	Unspecified	Non-Wood
								Tag Alder	Medium	5 - 10 feet	Tall Shrub
Cattail spp.	Low	Unspecified	Non-Wood								

8	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	12.5	96	171-200	N/A	Diverse, multi-aged stand that sits on lowland soils, however it is not overly wet except for a few areas. The northeast corner and west edge of the stand may have had a partial harvest many years ago as there are younger aspen/fir in these areas. However, the majority of the aspen throughout the stand is old with lots of rot and cavities, providing good wildlife habitat. Cedar is scattered throughout individually or in small clumps, but there is also a large pocket (>1 acre) of cedar at the north end. A few white pine legacy trees are present throughout the stand. A handful of white ash poletimber stems are still alive at this time. Trace of red oak (pole) and black cherry (pole) in the overstory. Average ba/acre from 9 plots = 191 square feet. No management due to the diverse species mix and cedar component.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	27	Log/Pole/XLog	13	96	Serviceberry (Juneberry)	Trace	Variable	Tall Shrub
Northern White Cedar	24	Pole/Log	9	96	Balsam Fir	Medium	Variable	Sapling
Basswood	1	Pole/Log	9		Red Maple	Trace	>20 feet	Sapling
Paper Birch	4	Pole/Log	8		White Ash	Trace	>20 feet	Sapling
White Pine	5	Log/XLog/Pole	14					
Red Pine	1	XLog	20					
Balsam Fir	25	Pole/Log	8	55				
Red Maple	11	Pole/Log	8					
White Spruce	2	Log/XLog/Pole	14					

9	6112 - Lowland Aspen	Sapling Well	7.9	25	51-80	N/A	Mostly a fully-stocked stand of aspen and mixed conifers. Clearcut in 1999 in the sale Osmun Lake Overlook (#53-005-96, Mattson Logging). Beavers have removed most of the aspen from the northern end of the stand and this area is now primarily fir, spruce, and white pine with a lot of nannyberry. A clump of mature oak is present near the middle part of the stand, and there is a nice representation of oak saplings in some places, although most are overtopped by aspen. Trace of red pine (pole/log) in the overstory. Average ba/acre from 7 plots = 76 square feet. Terrain in the stand is mostly upland in the south half and transitions to lowland in the north half, although the lowland isn't particularly wet except for along the north and east edges. Lots of hare and bobcat sign in the stand at time of inventory.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	3	Pole/Sapling	6		Black Spruce	Low	Variable	Sapling
Balsam Fir	25	Pole/Sapling	5		Red Oak	Low	Variable	Sapling
Red Oak	1	Log	14		Nannyberry	High	5 - 10 feet	Tall Shrub
White Pine	9	Pole/Sap/Log	7		White Spruce	Trace	Variable	Sapling
Black Spruce	4	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling
Red Maple	6	Sapling/Pole	4		Michigan Holly	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	51	Sapling/Pole	4	25	White Pine	Trace	Variable	Sapling
White Spruce	1	Pole/Sapling	5		Tag Alder	Trace	5 - 10 feet	Tall Shrub
					Serviceberry (Juneberry)	Low	Variable	Tall Shrub
					Red Maple	High	Variable	Sapling
					Black Cherry	Low	>20 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
10	42210 - Natural Red Pine	Sawtimber Well	10.8	73	51-80	N/A	Nice red pine stand that was thinned in 2019 in the sale Osmun Lake Red Pine (#53-023-16, Precision). A second age class of much larger, older red pine is scattered throughout the stand. Pockets of advanced regeneration were protected during the harvest and red maple/red oak is seeding into some of the cut areas. Lots of wintergreen at the ground level. Average ba/acre from 5 plots = 80 square feet. Manage this stand for natural pine, perhaps thinning again in 10-20 years.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		83	Log/Pole/XLog	13	73	White Spruce		
White Pine		7	Pole/Log	8		Red Maple		
Red Oak		10	Log/XLog/Pole	14		Bigtooth Aspen		
						Balsam Fir		
						White Pine		
						Beech		
						Red Maple		
						Red Oak		
						Red Oak		
						Red Oak		
						Red Oak		
11	42210 - Natural Red Pine	Sawtimber Well	34.7	73	81-110	N/A	Multi-aged stand dominated by natural red pine. There are two age classes of overstory red pine, which are about split evenly throughout the stand. The west half tends to have more of the younger age class, which typically ranges from 8-14" DBH. The second age class is much larger, with most trees greater than 15" DBH, and can be found throughout the stand, but more common in the east half (aged a 19" red pine in stand 115 at 116 years old). An aspen/red maple species removal harvest in 2000 (Pond Trail Aspine, #53-018-97, Hydrolake) resulted in a flush of regeneration in the understory. Aspen is most common but there is also a nice representation of other species, including some areas of impressive oak regeneration, although it is often overtopped by aspen. Due to the species removal, residual BAs tend to be variable. Average ba/acre from 9 plots = 82 square feet. Terrain is gently rolling. This stand should be managed for natural pine and not converted to softwoods (red maple, aspen), and treatments should strive to maintain the uneven-aged structure. Perhaps consider a group selection or heavy shelterwood in the future, incorporating scarification or fire if possible.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		11	Log/Pole	10		Bigtooth Aspen		
Red Pine		82	Log/XLog/Pole	14	73	Red Oak		
Red Oak		7	Log	14		Beech		
						Balsam Fir		
						Red Maple		
						White Pine		
12	6113 - Lowland Maple	Poletimber Well	6.5	90	81-110	N/A	Mediocre red maple stand that starts as upland in the west half but transitions to lowland as you move east and north. The far east end becomes very wet, has a thick understory of lowland shrubs, and is not as well-stocked. A surprisingly good amount of red oak regeneration in the southeast portion of the stand. Trace of red pine (log/xlog) and cedar (pole/log) in the overstory. Average ba/acre from 5 plots = 94 square feet. No management due to the wet soils.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		10	Pole/Log	9		Michigan Holly		
White Pine		1	Log/XLog	15		Beech		
Balsam Fir		20	Pole/Log	8		Red Maple		
Red Oak		1	Pole	7		Tag Alder		
Quaking Aspen		4	Log	13		Red Oak		
Red Maple		64	Pole/Log	8	90	Nannyberry		
						Balsam Fir		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
13	6224 - Treed Bog	Nonstocked	5.3	0	Unspecified	No	This was formerly a forested stand but the majority of overstory trees have died, presumably due to the raising of the water table as a result of the beaver dam to the north. Abundant leatherleaf at the ground level. There are enough trees remaining in the stand that this may possibly be coded as a S1 or S4 next entry.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Spruce	Low	>20 feet	Pole	
								Black Spruce	Low	Variable	Sapling	
								Balsam Fir	Trace	Variable	Sapling	
White Pine	Trace	5 - 10 feet	Sapling									
14	6122 - Black Spruce	Sapling Medium	7.1	47	1-50	N/A	Black spruce and leatherleaf bog that is poorly-stocked in many areas. Best stocking and diameter growth can be found along the north, south, and east edges. The west edge is nearly non-forested. There has been some mortality of the larger diameter trees but not as significant as in stand 13 to the north. No management.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Pine	2	Sapling	3	
								Tamarack	5	Pole/Sapling	5	
								Black Spruce	78	Sapling/Pole	3	47
White Pine	15	Pole/Sapling	7									
15	4311 - Pine, Aspen Mix	Poletimber Well	2.9	47	51-80	N/A	Narrow strip cut back in 1977 done by DNR personnel. It looks like all pine and were left uncut. Aspen came back well in spots but diameters are still small. The far eastern end is predominantly sapling sized aspen and red maple. A thin strip of MC9 is present against the adjacent marsh. Average ba/acre from 4 plots = 73 square feet. The aspen needs more growth before considering a harvest.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Spruce	4	Pole	6	
								White Pine	20	Log/Pole	12	73
								Bigtooth Aspen	34	Pole/Sapling	6	47
								Quaking Aspen	12	Pole/Sapling	6	47
								Red Pine	24	Log/Pole/XLog	12	
								Balsam Fir	1	Pole	6	
								Red Oak	1	Log	12	
								Red Maple	4	Pole/Sapling	5	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Spruce	Trace	Variable	Sapling	
								Beech	Trace	Variable	Sapling	
White Pine	Low	Variable	Sapling									
Nannyberry	Trace	Variable	Tall Shrub									
Red Pine	Trace	Variable	Sapling									
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub									
Red Maple	Low	Variable	Sapling									
Balsam Fir	Low	Variable	Sapling									
16	42210 - Natural Red Pine	Sawtimber Well	21.0	73	81-110	N/A	Moderate quality red pine stand with variable BAs due to an aspen/red maple species removal cut in 1999 (Osmun Lake Overlook, #53-005-96, Mattson Logging). Aspen regenerated well after that harvest and is present throughout most of the understory. At least 2 age classes of red pine are present in the overstory, the older age class is the same age as the oak (94 years old). Composition is primarily red pine in the south half of the stand but shifts towards more oak the further north you get. Some pockets of red pine at the south end do appear planted but this is not widespread throughout the stand. No planting records are available for this area so have to assume the stand is natural. Perhaps some areas were underplanted at one time? Trace of paper birch, red maple, and bigtooth aspen poletimber in the overstory. Average ba/acre from 8 plots = 86 square feet. Rolling terrain. Possibly consider a regeneration harvest next entry when diameters have increased but the goal should be in maintaining or increasing the natural pine component, not a conversion to aspen.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	10	Pole/Log	8	
								Red Pine	64	Log/Pole/XLog	12	73
								Red Oak	26	Log/XLog	14	95
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Spruce	Trace	Variable	Sapling	
								Bigtooth Aspen	High	>20 feet	Sapling	
								White Pine	Medium	Variable	Sapling	
								Red Pine	Trace	Variable	Sapling	
								Balsam Fir	Trace	Variable	Sapling	
								Red Maple	Medium	Variable	Sapling	
								Red Oak	Trace	Variable	Sapling	
Beech	Low	Variable	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17 4191 - Mixed Upland Deciduous with Conifer Sapling Well 4.8 35 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	2	Pole/Sapling	5	
Balsam Fir	12	Sapling/Pole	4	
Quaking Aspen	37	Sapling/Pole	4	35
Paper Birch	2	Sapling/Pole	4	
Red Maple	37	Sapling/Pole	3	35
White Pine	9	Pole/Sap/Log	7	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
White Pine	Trace	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub

Mixed species stand that is on the verge of being a poletimber stand. Clearcut at the same time as adjacent stand #21 to the south. This stand regenerated to more of a mix, particularly red maple, which is abundant in some areas. This stand also sits at a lower elevation than stand 21 and may be seasonally wet, although it is difficult to tell with the current amount of snow on the ground. There does appear to be pit and mound topography in some areas of the stand. Trace of large diameter red oak along the northwest edge.

18 42210 - Natural Red Pine Sawtimber Well 59.4 70 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	9	Log/XLog	14	95
Red Maple	3	Pole	6	
Bigtooth Aspen	21	Pole/Log	8	
White Pine	5	Pole/Log	8	
Red Pine	62	Log/Pole/XLog	12	70

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	Sapling
Red Pine	Low	Variable	Sapling
Beech	Trace	Variable	Sapling
White Pine	Medium	Variable	Sapling
Red Oak	Low	5 - 10 feet	Sapling
Balsam Fir	Low	Variable	Sapling

Natural red pine stand with a mix of other species present, especially aspen. In some areas the red pine does appear planted, but not all, and there are no planting records for this area. Red pine stocking is variable, many areas could be thinned at this time while other areas have lower BAs. Pine quality is generally good, with the exception of some suppressed stems that are overtopped by aspen. A second age class of older pine, most greater than 15" DBH and many with fire scars, are scattered infrequently throughout. The aspen component is mixed in throughout and there appears to be 2 age classes present as old inventory notes state that this stand had various partial harvests while under private ownership in the 1980's. There are a few small pockets where aspen is more dominant than pine, particularly in an area west of Osmun Road and northwest of Pond Trail, as well as another area just west of the northern tip of stand #20. Understory regeneration is limited in the part of the stand east of Osmun Road, with the exception of white pine and fir. Site quality increases west of Osmun Road and red maple, beech, and oak start to show up in the subcanopy but are mostly absent from the remainder of the stand. Trace of paper birch (pole) and balsam fir (pole) in the overstory. Average ba/acre from 28 plots = 135 square feet. This stand will be ready for a thinning next entry. Management should focus on maintaining natural red pine however some regeneration gaps could be placed in areas heavier to aspen.

19 4130 - Aspen Poletimber Well 7.0 47 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	14	Pole	6	
Bigtooth Aspen	60	Pole/Sapling	7	47
White Pine	10	Log/Pole	11	
Red Pine	6	Log/Pole	13	
Red Oak	10	Log	13	95

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Red Pine	Trace	Variable	Sapling
Red Oak	Trace	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Red Maple	Low	>20 feet	Sapling

Decent aspen stand with older pine and oak mixed in. With the exception of some areas closer to the road that are in the 8-10" DBH range, most aspen diameters in this stand are still quite small, especially the further west you go. Some small clumps of pine can be found along the road, otherwise they tend to be scattered individually throughout the stand. Trace of XL-sized red oak, red pine, and white pine. Average ba/acre from 7 plots = 99 square feet. This stand could be cut now but would benefit from another 10 years of growth.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
20	4311 - Pine, Aspen Mix	Poletimber Well	7.9	47	51-80	N/A	Aspen and natural mixed pine stand. The aspen is not well-stocked in most places of the stand, likely due to past browse damage. Diameters on the aspen vary considerably with some areas still having sub-merchantable stems. Heavy pine component in the understory. Trace of white spruce (pole) and red maple (pole) in the overstory. Average ba/acre from 6 plots = 75 square feet. Hold this stand and consider managing for pine.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		22	Pole/Sapling	5		White Pine		Medium	Variable	Sapling	
White Pine		17	Pole/Sapling	5		Red Pine		Medium	Variable	Sapling	
Jack Pine		3	Pole/Sapling	5		Jack Pine		Trace	Variable	Sapling	
Bigtooth Aspen		58	Pole/Sap/Log	7	47						
21	4133 - Aspen, Mixed Pine	Sapling Well	7.3	35	81-110	N/A	Nice quality mixed species stand that is on the verge of being a poletimber stand. Many areas already are but aspen diameters vary significantly with some spots still having a majority of submerchantable stems. Clearcut in 1989 by Kapalla Logging. Trace amounts of XL-log red pine and white pine. Trace of sugar maple (pole/sap) and tamarack (sap).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		15	Pole/Sap/Log	6		Red Maple		Medium	>20 feet	Sapling	
Red Oak		3	Log/XLog	16		White Pine		Low	Variable	Sapling	
Balsam Fir		10	Pole/Sapling	5		Balsam Fir		Medium	Variable	Sapling	
Red Pine		5	Pole/Sapling	6							
Bigtooth Aspen		25	Pole/Sapling	5	35						
Quaking Aspen		22	Sapling/Pole	4							
Red Maple		20	Sapling/Pole	3							
22	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	17.2	80	111-140	N/A	Lowland conifer stand. Spruce quality is good and the cedar is generally healthy except for a few localized areas of decline. Mostly a lowland stand except for a sliver of upland along the west edge near the road, there area also a few upland ridges at the far southern end. A small stream originates in the middle of the stand and drains east into Osmun Lake. Diameters tend to be smaller around this area of the stand, likely due to the much wetter soils. Most of the pine are along the edges of the stand and some are legacy tree size. Trace of red oak (log/xlog/pole) in the overstory. Average ba/acre from 10 plots = 123 square feet. No management due to the wet soils and lake influence.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		39	Pole/Log	9	80	Red Maple		Low	Variable	Sapling	
Hemlock		1	Log/Pole	12		Michigan Holly		Low	5 - 10 feet	Tall Shrub	
Tamarack		1	Pole	6		Balsam Fir		High	Variable	Sapling	
Black Spruce		25	Pole/Log	8		Nannyberry		Trace	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		1	Pole/Log	9		Tag Alder		Medium	Variable	Tall Shrub	
Paper Birch		2	Pole/Log	8		Black Ash		Low	5 - 10 feet	Sapling	
Quaking Aspen		4	Log/Pole	12		Black Spruce		Trace	Variable	Sapling	
Red Maple		7	Log/Pole	10							
White Pine		1	Log/XLog	17							
Balsam Fir		16	Pole	7							
Red Pine		3	XLog/Log	20							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23	42290 - Natural Mixed Pine	Sawtimber Well	17.3	79	111-140	N/A	High quality natural pine stand of mixed age classes that occupies a narrow strip between Osmun Road and Osmun Lake. The narrow part has a linear wet trench or swale that is the result of the creation of a berm all along the west edge of the lake to contain the water. Uncertain when this was done. The south half of the stand had a partial harvest at one time, likely while under private ownership, and has a younger aspen component. Much larger and older pine can be found around the perimeter of the stand, closer to Osmun Lake, including several white pine legacy trees. Older aspen can be found in these areas as well. Trace of cedar (pole/log) in the overstory. Average ba/acre from 9 plots = 121 square feet. There is a fairly popular camping spot in the south half. No management due to the proximity to Osmun Lake.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	11	Pole/Log	8		Red Maple	Medium		>20 feet	Sapling
Balsam Fir	2	Pole	6		White Pine	Medium		Variable	Sapling
Red Pine	34	Log/XLog/Pole	14		Serviceberry (Juneberry)	Low		Variable	Tall Shrub
White Spruce	1	Pole	8		Hazelnut (American)	Trace		5 - 10 feet	Tall Shrub
White Pine	34	Log/XLog/Pole	13	79	Balsam Fir	Low		Variable	Sapling
Red Oak	5	Log/Pole	14		Tag Alder	Low		Variable	Tall Shrub
Red Maple	9	Pole/Log	8						
Paper Birch	1	Log/Pole	10						
Quaking Aspen	3	Pole/Log	9						

24	4123 - Red Oak	Sawtimber Well	13.2	95	81-110	N/A	Oak dominated stand that sits on a plateau above the surrounding landscape. Some nice views of Osmun Lake can be had along the east side of the stand. Oak quality is moderate however there are lots of small, suppressed poletimber stems mixed in. The southern 2/3rds of this stand had an aspen/red maple species removal harvest in 1999, however there must not have been much of these species present as most parts of the stand, with the exception of the west side, don't show evidence of past harvesting activity. The northern tier of the stand, above the east-west running section line, may have been under private ownership at one time as there are still remnants of a wire fence and this part of the stand also has a few aspen and red maple remaining. Trace of paper birch (pole), beech (pole), white pine (pole), and XL-sized red oak. Many of the larger diameter red pine have old fire scars. Average ba/acre from 8 plots = 109 square feet. This stand would benefit from a TSI type harvest, removing the small, suppressed stems and focusing growth on the best quality trees.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	1	Pole	7		White Pine	Medium		Variable	Sapling
Red Oak	87	Log/Pole	12	95	Striped Maple	Trace		5 - 10 feet	Sapling
Red Pine	11	Log/XLog/Pole	14		Maple Leaved Viburnum	Low		< 5 feet	Tall Shrub
Bigtooth Aspen	1	Log	13		Beech	Low		Variable	Sapling
					Red Maple	Low		>20 feet	Sapling

25	6122 - Black Spruce	Poletimber Well	3.3	76	141-170	N/A	Upland/lowland transitional stand dominated by conifers. Good quality black spruce although diameters become smaller along the west edge with more submerchantable stems. Nice component of large diameter, supercanopy pine. White pine is most common at the south end. Average ba/acre from 3 plots = 143 square feet. Ground becomes wet in the west half of the stand which limits any commercial harvesting opportunities. Leave unmanaged.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	2	Pole	8		Balsam Fir	Low		>20 feet	Sapling
Black Spruce	62	Pole/Sap/Log	7	76	Beech	Trace		5 - 10 feet	Sapling
Jack Pine	4	Log/Pole	11		Black Spruce	Medium		Variable	Sapling
Red Pine	22	XLog/Log/Pole	19		Michigan Holly	Low		5 - 10 feet	Tall Shrub
White Pine	10	Log/XLog/Pole	16		Tag Alder	Low		Variable	Tall Shrub
					Serviceberry (Juneberry)	Trace		Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
26	42290 - Natural Mixed Pine	Sawtimber Well	2.5	91	141-170	N/A	Small pocket of natural red and white pine at the edge of the Dog Lake marsh. The north half of the stand is dominated by red pine while the south half is more of a diverse mix. A couple of massive white pine legacy trees are present. Trace of paper birch (pole). Average ba/acre from 4 plots = 153 square feet. The High Country Pathway runs the length of the stand. Leave unmanaged for visual considerations.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		2	Log	14		Balsam Fir		Medium	Variable	Sapling	
Bigtooth Aspen		5	Log	14		Red Maple		Low	>20 feet	Sapling	
Balsam Fir		2	Pole	7		White Pine		Low	Variable	Sapling	
Red Maple		8	Pole/Log	8		Black Spruce		Low	Variable	Sapling	
Red Pine		54	Log/XLog/Pole	16	91	Red Pine		Low	>20 feet	Sapling	
White Pine		22	Log/Pole/XLog	14							
Black Spruce		7	Pole	7							
27	4130 - Aspen	Poletimber Well	4.8	47	81-110	N/A		Moderate quality aspen stand that was clearcut by DNR personnel in 1977. Diameters tend to vary significantly with some areas barely merchantable and stems in the 4-6" diameter range. Other areas have diameters ranging from 7-10" DBH. Overall the aspen is not as well-stocked as you would expect for a stand of this age. A significant component of red pine is present in the understory, with some stems reaching the canopy. Red pine is dominant at the far south end of the stand. Average ba/acre from 6 plots = 82 square feet. Most of the stand sits on a slight east-facing slope. Diameters are still quite small, hold for ten more years.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Pine		15	Pole/Sapling	5		White Pine			Low	Variable	Sapling
Jack Pine		1	Pole	6		Red Pine			High	Variable	Sapling
Bigtooth Aspen		83	Pole/Sap/Log	7	47	Red Maple			Low	10 - 20 feet	Sapling
White Pine		1	Pole/Sapling	5							
28	42210 - Natural Red Pine	Sawtimber Well	14.6	95	81-110	N/A	Natural red pine stand with 2 distinct age classes in the overstory. The older age class is slightly more numerous, and found in larger amounts in the north and south ends of the stand. Trees in this age class are mostly greater than 15" DBH. The second age class of overstory red pine is 72 years old and ranges in diameter from 5-13" DBH. Pockets of these trees are found primarily in the middle part of the stand. All aspen and hardwoods were cut out if this stand when it was in private ownership back in the '80's. Aspen and red maple regeneration have come back well in many areas, although they are not uniform throughout. Pockets of pine regen are present as well. Average ba/acre from 8 plots = 109 square feet. Management should focus on promoting natural pine and not deciduous species. Fire or scarification may be needed to achieve these goals.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		2	Pole	5		Red Maple		Medium	>20 feet	Sapling	
Red Maple		1	Pole	5		White Pine		Low	Variable	Sapling	
Red Oak		11	Log	14		Red Pine		Low	>20 feet	Sapling	
Red Pine		81	Log/Pole/XLog	13	95	Red Oak		Low	Variable	Sapling	
White Pine		5	Pole/Log	8		Bigtooth Aspen		Medium	>20 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
29	42210 - Natural Red Pine	Sawtimber Well	56.2	73	81-110	N/A	Moderate quality red pine stand with a significant component of red oak. The only past records of a harvest are from 1998 in the sale Osmun Aspen Plus (#53-006-96, Alan Lamberson) where all species were cut except for red pine, white pine, and red oak. Due to this species removal, stocking is somewhat irregular with some scattered areas of lower BAs. A second age class of larger, older red pine is scattered throughout, although relatively rare. Pockets of suppressed red pine saplings are common, usually underneath larger diameter oak. These saplings are not younger regen, they are the same age as the dominant overstory age class of red pine. Red oak quality is only mediocre, although most stems appear healthy and vigorous. The white pine component increases in the east half of the stand. Average ba/acre from 13 plots = 110 square feet. Planting records do not exist for this area, and while some scattered pockets appear planted, the majority of the stand seems to be of natural origin. This stand should be ready for a thinning next entry. Manage for natural red pine and consider using uneven-aged techniques with a goal of promoting large diameter trees and diverse structure.																																					
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30	42110 - Planted Red Pine	Sawtimber Well	124.5	68	51-80	N/A	Large stand of red pine that was recently thinned in the fall and winter of 2020-21 by EJ&Z in the sale Lost Lake Red Pine (#53-024-16). In addition, all aspen and red maple were removed. Heavy slash accumulation in places. Residual stocking is variable in nature as some areas were thinned heavily, resembling more of a shelterwood, while other areas were only lightly thinned. Some red pine seedlings were noted in the areas of lower BAs. Red maple and bigtooth aspen regeneration is mostly near Osmun Road. Although rare, there is a second age class of larger, older red pine scattered throughout the stand. I have to believe this is a planted stand based on the uniform composition, even though no planting records exist for this area and furrows are not present. Average ba/acre from 12 plots = 73 square feet. This stand won't need another treatment for many years.																																					
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31	42210 - Natural Red Pine	Sawtimber Well	26.2	73	51-80	N/A	Moderate quality red pine stand. Cut in 2020 in the sale Osmun Lake Red Pine (#53-023-16), bought by Precision. All jack pine, red maple, and aspen were removed from the stand, along with some marked red pine. Not really sure of the intent of this harvest. BAs are too high in most places to allow for shade intolerant regeneration but too low to be in need of a thinning again for many years. Red maple stump sprouts have regenerated in areas but that's it for new ingrowth. Some pockets of red pine saplings were protected throughout the stand but these appear to be older, stunted stems that are of the same age as the overstory red pine. White pine regeneration becomes more abundant in the east half of the stand. A second age class of much larger (16"+ DBH), older red pine is scattered infrequently throughout the stand. Trace of red maple poletimber. Average ba/acre from 8 plots = 73 square feet. The majority of the stand sits on a north facing slope. No planting records exist for this area so this is a natural stand. Manage for natural red pine in the future using two-aged or uneven-aged techniques. Try to incorporate fire or scarification if possible.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
32	42210 - Natural Red Pine	Sawtimber Medium	22.9	101	51-80	N/A	Large diameter, good quality natural pine that had a heavy partial harvest 15 years ago, resembling a shelterwood in many areas. White pine is much more common in the west half of the stand, the east half is nearly pure red pine with some oak mixed in. Areas of seasonally wet ground are present in the west half. Regeneration has not come back very well in the east half of the stand, although there are some scattered patches of pine regeneration. Red maple is regenerating well in the west half, heavy browse is present on many stems. Only a small buffer (around 20-30 feet) was left around the marsh/lake. The south/southeast part of the stand was not cut and was intended as retention. Trace of jack pine (pole/log) and paper birch (pole). Average ba/acre from 12 plots = 72 square feet. Retain the overstory and manage for natural pine.																																																												
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33	6221 - Fen	Nonstocked	9.1		Unspecified	No	Seasonally inundated marsh that mostly surrounds Lost Lake. Lots of sedge. Some jack pine, red pine, and white pine saplings are present along the west edge.																																																												
34	4310 - Pine, Oak Mix	Poletimber Well	55.5	68	81-110	N/A	Mixed stand of mostly red pine and red oak that is somewhat odd in that there are at least 3 distinct age classes present. The majority of the red pine is in the 67 year old age class, ranging anywhere from 5-13" DBH. The oak component is larger and older, overtopping the younger red pine in places. Red oak quality is low to moderate, however most stems appear healthy and vigorous. There is also a component of larger diameter red pine mixed in throughout (15"+ DBH) that is the same age as the oak. The third age class is younger regeneration that is a result of an aspen/red maple species removal harvest from 1983. Most of this regeneration is red pine that has filled in some of the gaps from that species removal harvest. Average ba/acre from 13 plots = 95 square feet. Most of the south half of the stand sits on south/southeast facing slopes while the north half is on a flat plateau (see topo map). Let this stand grow another entry before prescribing a harvest. Red pine appears to naturally regenerate in this area very well so consider a group selection treatment, creating large gaps (with scarification) with the goal of regenerating pine and oak, and then thinning the pine in between the gaps.																																																												
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35	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	21.0	68	81-110	N/A	Mixed pine and oak stand with at least 3 age classes present. Red pine in the 68 year old age class is most prevalent throughout the stand, appearing planted in some areas but not all. No planting records exist for this area. An older age class (95 years) of mostly oak is scattered throughout with some larger diameter red pine as well. An aspen/red maple species removal harvest from 1983 resulted in the third age class of younger aspen, red maple, and white pine, some of which is recruiting into the overstory. A few scattered older stems of aspen were left in the stand. The younger aspen component is not uniform throughout. Terrain slopes down to the south/southeast and the fir component increases along the southern edge. Trace of XL-sized white pine. Trace of black spruce (pole), white spruce (pole), and paper birch (pole). Average ba/acre from 9 plots = 110 square feet. This stand may potentially be ready for a thinning next entry. Future management should focus on retaining the multi-aged natural red pine structure that is currently present.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
36	4310 - Pine, Oak Mix	Sawtimber Medium	16.1	72	51-80	N/A	Mixed stand of pine and oak. There are 2 age classes of red pine in the overstory; the 71 year old age class is more common and ranges anywhere from 6-13" in DBH. The older age class, roughly the same age as the oak, is mostly greater than 15" DBH. The oak is moderate quality and healthy. This stand was apparently harvested in the 1980's while under private ownership, removing all aspen and hardwoods. Advanced red pine regeneration is present throughout the stand, it's unclear if this is in-growth since the harvest in the '80's or if it was advanced regeneration that was protected from damage during the harvest. Average ba/acre from 7 plots = 71 square feet. Allow the pine understory to continue to develop.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		33	Log/XLog/Pole	14	95	Bigtooth Aspen		Low	>20 feet	Sapling	
Red Pine		42	Log/Pole/XLog	12	72	Red Pine		Medium	Variable	Sapling	
Beech		1	Pole/Log	9		Beech		Trace	Variable	Sapling	
White Pine		14	Pole/Log	8		Red Maple		Low	>20 feet	Sapling	
Red Maple		9	Pole	7	41	White Pine		Low	Variable	Sapling	
Bigtooth Aspen		1	Pole	5							
37	42210 - Natural Red Pine	Sawtimber Medium	12.7	112	81-110	N/A	Nice stand of older natural red pine. Heavily thinned in the early 2000's, new in-growth has mostly been red maple and bigtooth aspen. Patches of advanced white pine regeneration were protected from damage during the harvest. A few clumps of red pine regeneration in the more heavily scarified areas. Trace of white pine legacy trees. Average ba/acre from 6 plots = 83 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		4	Pole	6		White Pine		Medium	>20 feet	Sapling	
White Pine		15	Pole/Log/XLog	8		Red Pine		Low	10 - 20 feet	Sapling	
Red Pine		70	Log/XLog/Pole	16	112	White Spruce		Trace	Variable	Sapling	
Red Oak		11	Log/Pole	13		Beech		Trace	Variable	Sapling	
						Red Maple		Medium	>20 feet	Sapling	
						Red Oak		Trace	Variable	Sapling	
						Bigtooth Aspen		Medium	>20 feet	Sapling	
						Balsam Fir		Low	Variable	Sapling	
38	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	60.6	103	81-110	N/A	Mixed swamp conifer stand of varying quality and stocking. The cedar component tends to be clumpy and not uniform throughout the stand. Some of the cedar is in decline but not all. Slivers of ground along the north and west edges of the stand transition to upland and generally have the most diverse mix of species and best quality. A large portion in the middle of the stand is dominated by younger trees, and it almost looks like it was cut at one time, although no harvest records exist. I'm guessing it was flooded long ago and has since regenerated. The fir understory is thick in places. Trace of red pine (log/xlog) in the overstory. Average ba/acre from 9 plots = 101 square feet. Lewis Branch Adair Creek flows east/northeast through the stand. No management due to wet soils and the stream influence.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		3	Log/XLog	17		Black Spruce		Low	5 - 10 feet	Sapling	
Black Spruce		22	Pole/Log	8	82	Tag Alder		Medium	Variable	Tall Shrub	
White Spruce		1	Pole/Log	8		Paper Birch		Trace	>20 feet	Sapling	
Balsam Fir		22	Pole	6		Balsam Fir		High	Variable	Sapling	
Northern White Cedar		37	Pole/Log	9	103	White Spruce		Trace	Variable	Sapling	
Quaking Aspen		1	Log/XLog	16		Northern White Cedar		Trace	>20 feet	Sapling	
Paper Birch		5	Pole/Log	8		Michigan Holly		Low	5 - 10 feet	Tall Shrub	
Red Maple		7	Pole/Log	8							
Hemlock		2	Log/Pole	10							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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39 42210 - Natural Red Pine Sawtimber Medium 5.8 111 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	20	XLog/Log	21	
Red Pine	68	XLog/Log	20	111
Black Spruce	2	Pole/Sapling	6	
Balsam Fir	5	Pole/Sapling	6	
Red Maple	4	Pole/Sapling	6	
Red Oak	1	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Red Pine	Trace	10 - 20 feet	Sapling
Black Spruce	Trace	Variable	Sapling
Red Oak	Trace	Variable	Sapling
Red Pine	Low	< 5 feet	Seeding
Balsam Fir	Low	< 5 feet	Seeding
Balsam Fir	Medium	Variable	Sapling
Black Spruce	Trace	< 5 feet	Seeding
Red Maple	Medium	Variable	Sapling

Older natural red pine stand with a lot of large diameter trees. This stand has a history of harvest activities, the most recent being a heavy shelterwood. As a result, there are two additional age classes in the stand; one is composed of 3-6" trees that are present in pockets throughout the stand, the second is recent regeneration that has seeded into areas that were opened up in the shelterwood. Red pine seedlings can be found in some areas, there are also a few small pockets of red pine saplings. Average ba/acre from 5 plots = 66 square feet. Leave the overstory supercanopy trees indefinitely and manage for the understorey.

40 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 34.0 74 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Log/Pole/XLog	11	
White Spruce	1	Pole	5	
Red Maple	6	Pole/Log	8	
Bigtooth Aspen	22	Log/Pole	12	
Red Pine	53	Log/Pole/XLog	12	74
Balsam Fir	2	Pole	6	
Red Oak	5	Log/XLog	14	95
Quaking Aspen	1	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Red Pine	Low	>20 feet	Sapling
White Spruce	Trace	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

Nice stand of natural red pine with a large component of mature aspen mixed in throughout. There are at least two age classes of red pine; those in the 74 year age class are dominant in the overstorey but there are scattered larger trees throughout that are much older. A 20" DBH red pine was cored at 112 years old. Trace amounts of red and white pine legacy trees, most are along the southern edge near the lowland stands. Some pockets heavier to aspen found in the western half of the stand. A few small areas of blowdown in this half as well. A wet lowland vein runs northwest to southeast through the middle of the stand, draining into adjacent stand 118 (see site conditions layer). Cedar and hemlock can be found in this area, along with mixed pine and red maple. Average ba/acre from 16 plots = 138 square feet. The only records of a past harvest in this stand are from 1977 which appeared to be a thinning. Thin next entry, maintain species diversity.

41 6239 - Mixed Emergent Wetland Nonstocked 19.1 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Trace	>20 feet	Pole
Balsam Fir	Low	>20 feet	Pole
Cattail spp.	Low	Unspecified	Non-Wood
Tag Alder	Medium	Variable	Tall Shrub
Sedges	Medium	Unspecified	Non-Wood
Balsam Fir	Medium	Variable	Sapling
Willow spp.	Low	Variable	Tall Shrub
Black Spruce	Low	Variable	Sapling

Only looked at the edges of this stand. The western third is more of a marsh and looks like it was flooded by beavers sometime in the past couple of years. The eastern 2/3rds of the stand has a lot of alder with fir and spruce mixed in, although not at levels high enough to make it a forested stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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42 429 - Mixed Upland Conifers Sawtimber Medium 3.9 73 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	15	Log/XLog	15	95
Red Pine	9	Log/XLog/Pole	15	
Black Spruce	10	Pole	7	
Red Maple	10	Pole	5	48
White Pine	42	Log/Pole	12	73
Jack Pine	7	Pole	7	
Balsam Fir	7	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Black Spruce	Trace	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Red Maple	Low	>20 feet	Sapling

Small upland knob surrounded by swamp. According to an old FTP, DNR personnel cut all trees in the stand except oak in 1976, however it's obvious that they did not cut any of the bigger pine either. The oak is mostly in the north half of the stand. Jack pine, spruce, and fir are mostly along the edges of the stand. The middle interior is more open with only some scattered red maple poletimber stump sprouts. Average ba/acre from 6 plots = 67 square feet. No management due to the isolated nature of the stand.

43 6220 - Alder/willow Nonstocked 6.7 0 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Trace	10 - 20 feet	Sapling
Black Spruce	Low	Variable	Sapling
Paper Birch	Trace	>20 feet	Sapling
Tamarack	Trace	Variable	Sapling
Tamarack	Trace	>20 feet	Pole
Tag Alder	High	Variable	Tall Shrub
Balsam Fir	Low	Variable	Sapling
Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	Low	>20 feet	Pole

Lewis Branch Adair Creek flows through the stand, possibly blocked by beaver dams at the east end. I only walked through the northern tier of the stand. Lots of alder although from imagery it looks like the middle part of the stand converts into more of a marsh. Some cedar regeneration was observed in the northeast part of the stand. Some areas along the edges of the stand are borderline forested.

44 6124 - Lowland Spruce-Fir Sapling Well 11.9 37 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	45	Sapling	3	37
Red Maple	2	Sapling	3	
Tamarack	4	Sapling/Pole	4	
Northern White Cedar	3	Sapling/Pole	3	
Balsam Poplar	9	Sapling/Pole	4	
Paper Birch	15	Sapling/Pole	4	
Black Spruce	22	Sapling	3	37

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	>20 feet	Tall Shrub
Willow spp.	Low	>20 feet	Tall Shrub
Balsam Fir	Medium	Variable	Sapling

Stand cut in 1987 by Andrew McCreery. Regeneration has come back well throughout the stand. The west half is dominated by fir and spruce and is very thick. The east/northeast portion of the stand has more birch and BAM mixed in. Some poor quality residual cedar stems are scattered throughout but there are also a handful of cedar saplings that regenerated following the harvest. For the most part, the ground in this stand does not appear overly wet and would be available for harvesting in the future. That being said, I did not visit all areas of the stand, particularly the northwest and southeast portions, due to the difficulty in navigating through the thick regeneration.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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45	42200 - Natural White Pine	Poletimber Well	2.7	37	81-110	N/A	Small stand of dense white pine, except for a few areas of lower stocking at the west end. Some scattered residual red oak and red maple that were left when the stand was clearcut. Average ba/acre from 4 plots = 98 square feet. Heavy deer use in the stand.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	7	Log/XLog	15		Red Pine	Trace	Variable	Sapling
Red Maple	12	Pole/Log	8		Red Maple	Low	Variable	Sapling
Quaking Aspen	1	Pole/Sapling	5		Bigtooth Aspen	Trace	>20 feet	Sapling
Balsam Fir	13	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
Black Spruce	2	Pole	6		White Pine	Medium	Variable	Sapling
Red Pine	4	Pole	7		Quaking Aspen	Trace	>20 feet	Sapling
Bigtooth Aspen	1	Pole/Sapling	5					
White Pine	60	Pole/Sap/Log	6	37				

46	42290 - Natural Mixed Pine	Sawtimber Medium	50.0	73	81-110	N/A	Moderate quality red and white pine stand that had an aspen/hardwood/jack pine species removal harvest in 1998 (Lewis Adair Aspen, #53-020-96, Georgia Pacific). As a result of the species removal, BAs are highly variable. The overstory trees are predominantly in the 72 year old age class, however there is a second age class of much larger, older trees (mainly red pine) scattered throughout. Regeneration came back well to aspen throughout almost the entire stand, with diameters primarily in the 2-4" range. Average ba/acre = 85 square feet. From the center part of the stand, terrain slopes down to the north and east, with some relatively steep, but operable, slopes to the north. Manage this stand for a mixed pine/aspen stand.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	54	Log/Pole/XLog	13	73	Balsam Fir	Low	Variable	Sapling
Jack Pine	1	Pole	5		Red Pine	Trace	Variable	Sapling
Red Oak	5	Log/XLog	14		Jack Pine	Low	Variable	Sapling
White Pine	36	Pole/Log/XLog	9		White Pine	Medium	Variable	Sapling
Red Maple	1	Pole	5		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	2	Pole	5		Bigtooth Aspen	High	>20 feet	Sapling
Balsam Fir	1	Pole	5					

47	42290 - Natural Mixed Pine	Sawtimber Well	15.0	73	81-110	N/A	Nice natural pine stand with multiple age classes present. All size classes of white pine are present in the stand, including a few legacy size trees, although poletimber is the most common. The red pine is mostly large diameter and high quality, with some older, relic trees present. Jack pine is most prevalent east of the road, and closer to Osmon Road on the west side of the stand. There used to be a lot more jack pine but the majority of it has died. No past harvest records for the stand. Average ba/acre from 12 plots = 99 square feet. Terrain is generally flat.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	7	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
Black Spruce	3	Pole	7		Red Maple	Trace	Variable	Sapling
Red Oak	3	Log	14		White Pine	Low	>20 feet	Sapling
White Pine	33	Pole/Log/XLog	8	73				
Red Pine	30	Log/XLog	14	95				
Jack Pine	8	Pole/Log	8	55				
Bigtooth Aspen	13	Log/Pole	13					
Balsam Fir	1	Pole	6					
Quaking Aspen	2	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
48	4136 - Aspen, Mixed Conifer	Sapling Well	16.0	26	81-110	N/A	Moderate quality aspen stand with a mix of other species present, although in relatively small amounts compared to the aspen. Clearcut in 1998 in the sale Lewis Adair Aspen (#53-020-96), bought by Georgia Pacific. Old inventory notes indicate that browsing impacted the stand, primarily in the southwest portion, which is now a mix of pine species with not as much aspen. The bigtooth aspen component is mostly along the west/northwest portion of the stand. Some scattered residual red and white pine can be found in the middle parts of the stand. Terrain slopes down to the north/northeast and transitions to wetter ground at the lower slopes. Trace of paper birch (sap/pole) and red oak (sap). This stand will need another two entries of growth before being ready for a harvest.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	15	Sapling/Pole	4	26	Red Pine	Trace		Variable	Sapling
Balsam Poplar	5	Sapling/Pole	4		White Pine	Medium		Variable	Sapling
White Pine	10	Sapling/Pole/Log	4		Balsam Fir	Medium		Variable	Sapling
Red Pine	3	Sapling/Pole	3		Jack Pine	Trace		Variable	Sapling
White Spruce	1	Sapling/Pole	3		Nannyberry	Trace		5 - 10 feet	Tall Shrub
Black Spruce	1	Sapling/Pole	3		Red Maple	Low		Variable	Sapling
Red Maple	5	Sapling	3		White Spruce	Trace		Variable	Sapling
Jack Pine	2	Sapling/Pole	3		Tag Alder	Trace		10 - 20 feet	Tall Shrub
Red Oak	2	Log	14						
Balsam Fir	5	Sapling	3						
Quaking Aspen	51	Sapling/Pole	4	26					
49	6120 - Lowland Cedar	Sawtimber Well	12.5	104	81-110	N/A		Wet swamp conifer stand with a very thick understory of fir. The east half of the stand is well-stocked for the most part and has some nice groves of large diameter, healthy cedar. The spruce is good quality, some of it may be white spruce? Difficult to tell. Stocking declines in the west half and alder starts to increase in abundance in this half of the stand. Did not visit the northwestern part of the stand but from imagery it appears that this area is poorly-stocked. Average ba/acre from 6 plots = 95 square feet. Difficult stand to walk through due to the thick understory, no need to visit again for some time. No management due to the wet ground.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Paper Birch	4	Pole	7		Michigan Holly	Low	5 - 10 feet		Tall Shrub
Balsam Fir	7	Pole	6		Paper Birch	Trace	>20 feet		Sapling
Black Spruce	20	Log/Pole	10		Nannyberry	Trace	5 - 10 feet		Tall Shrub
Northern White Cedar	60	Log/Pole	12	104	Balsam Fir	High	10 - 20 feet		Sapling
Red Maple	9	Log/Pole	11		Black Spruce	Low	Variable		Sapling
					Tag Alder	Medium	10 - 20 feet		Tall Shrub
					Black Ash	Trace	Variable		Sapling
50	4133 - Aspen, Mixed Pine	Poletimber Well	18.7	55	111-140	N/A	Moderate quality aspen stand that is ready for harvest. Some older aspen are scattered throughout, many of which are large diameter with lots of rot. At least two age classes of pine are present in the overstory, including some relict red pine, most of which are greater than 20" DBH. There are a few massive red oak in excess of 30" DBH, in the northern part of the stand. Average ba/acre from 11 plots = 111 square feet. Terrain slopes gently down to the south in the north half of the stand. The remainder is relatively flat.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Jack Pine	1	Pole/Log	8		Red Maple	Low		>20 feet	Sapling
White Pine	7	Pole/Log	8		White Pine	Medium		Variable	Sapling
Bigtooth Aspen	57	Pole/Log	9	55	Balsam Fir	Trace		Variable	Sapling
Quaking Aspen	2	Pole	8		Jack Pine	Trace		Variable	Sapling
Red Pine	12	Log/Pole/XLog	13		Red Pine	Trace		Variable	Sapling
Red Oak	7	Log/XLog	16						
Red Maple	14	Pole/Log	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																				
51	42210 - Natural Red Pine	Sawtimber Well	27.4	73	81-110	N/A	Moderate quality red pine stand that is somewhat difficult to type out due to the mixed size and age classes present. The most recent harvest was an overstory removal in 1998 where all aspen and hardwood were removed, as well as some marked pine (Lewis Adair Aspen, #53-020-96, Georgia Pacific). Due to this species removal, residual BAs tend to be variable. Regeneration following that harvest has been primarily white pine, with some scattered bigtooth aspen and red maple stems. Pockets of advanced white pine regen that were protected during the harvest can be found along the east/northeast parts of the stand. There are two age classes present in the overstory red pine; a younger age class (72 y.o.) that ranges anywhere from 8"-14" DBH and an age class of much older, relict red pine that is mostly greater than 18" DBH. The white pine overstory is most common in the finger that extends to the north/northwest. Trace of white pine legacy trees scattered throughout. Trace of bigtooth aspen poletimber at the far northwest side. Average ba/acre from 9 plots = 90 square feet. Let the overstory trees mature some more before considering a regeneration treatment.																																																																				
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52	330 - Low-Density Trees	Nonstocked	4.6		Unspecified	No	Opening that is filling in with pine, especially the southern half which could probably be coded as a forested stand. The northern half of the stand is more open with not as much pine encroachment. A single massive red pine is present in the middle of the stand. A line of planted Siberian crabapple runs north-south in the east side of the stand.																																																																				
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53	6124 - Lowland Spruce-Fir	Poletimber Well	31.2	95	81-110	N/A	Wet, poor quality lowland conifer stand. A wet drainage, sometimes appearing like a stream, flows through the length of the stand. Lots of blowdown throughout the stand. That, combined with a thick understorey, makes this a very difficult stand to walk through. Timber quality is generally low except for the spruce. Cedar is not uniform throughout, rather it tends to occur in scattered clumps. Average ba/acre from 7 plots = 87 square feet. No management due to the wet ground.																																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
54	42210 - Natural Red Pine	Sawtimber Well	8.9	66	111-140	N/A	Younger red pine that is mostly in the 7-12" size classes. However, a second age class of older red pine is present, many of which are 16" DBH and greater. Some areas of the stand look planted but others do not. No planting records for this section. All aspen and red maple were cut out of the stand in 1983. Trace of balsam fir poletimber and XL-sized white pine. Average ba/acre from 5 plots = 128 square feet. Let grow another entry and then thin.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		9	Log/Pole	14	95	White Pine		Medium	Variable	Sapling	
White Pine		11	Pole/Log	8		Balsam Fir		Low	Variable	Sapling	
Red Pine		76	Log/Pole/XLog	10	66	Bigtooth Aspen		Low	>20 feet	Sapling	
Red Maple		4	Pole/Sapling	6		Red Oak		Trace	Variable	Sapling	
						Black Spruce		Trace	Variable	Sapling	
						Red Maple		Trace	Variable	Sapling	
						Beech		Trace	Variable	Sapling	
55	42210 - Natural Red Pine	Sawtimber Medium	41.3	73	81-110	N/A	Moderate quality natural red pine stand with highly variable BAs due to an aspen/hardwood/jack pine species removal harvest in 1998 (Duby Corners Mix, #53-008-96, Mattson Logging). BAs range anywhere from 0 to 200 square feet, with a couple of dense pockets that look like they were planted. Average ba/acre from 15 plots = 101 square feet. In addition to the primary age class, a second age class of larger diameter red and white pine (15"+ DBH, 90 years old) is present in the stand, more common in the parts of the stand north of Duby Lake Road and north of Osmun Road. There are also a handful of relic red pine in the stand, several of which are legacy tree size. Aspen regenerated well following the removal harvest and can be found in most parts of the stand. Some areas of good jack pine regen are present north of Duby Lake Road. No management until the 2nd age class matures. Manage for a natural pine stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		78	Log/Pole/XLog	12	73	Red Maple		Medium	Variable	Sapling	
Bigtooth Aspen		2	Pole	6		Red Pine		Trace	Variable	Sapling	
Jack Pine		2	Pole	5		White Pine		Medium	Variable	Sapling	
Red Oak		5	Log	14		Jack Pine		Low	>20 feet	Sapling	
White Pine		12	Log/Pole/XLog	12		Bigtooth Aspen		High	>20 feet	Sapling	
Red Maple		1	Pole	6		Balsam Fir		Trace	Variable	Sapling	
						Red Oak		Trace	Variable	Sapling	
56	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	12.8	73	81-110	N/A	Mixed species stand with varying composition. Red pine is most common at the north and south ends, with some stems being overtopped by oak or aspen. A few large diameter relic red pine are scattered throughout these areas as well. Oak is mostly in the north half of the stand and generally low quality. Jack pine is predominantly in the narrow middle part of the stand, and there used to be more, but many have died over the years. Almost all of the aspen is in the southern half. Overall, most species are relatively low quality except for the red and jack pine. Average ba/acre from 9 plots = 100 square feet. The High Country Pathway passes through the narrow middle part of the stand. Wait to manage with adjacent stand 55, this stand is too small and narrow to manage on its own.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		10	Pole/Log	9		Red Maple		Trace	>20 feet	Sapling	
Red Oak		15	Log/Pole/XLog	13		White Pine		Medium	Variable	Sapling	
Bigtooth Aspen		15	Pole/Log	8		Red Pine		Low	Variable	Sapling	
Jack Pine		13	Pole/Log	8		Balsam Fir		Trace	Variable	Sapling	
Red Pine		47	Log/Pole/XLog	11	73						
57	42210 - Natural Red Pine	Sawtimber Poor	13.4	95	1-50	N/A	A red pine seed tree harvest was completed in this stand in 2018 in the sale Duby Lake Road Mix. The sale was cut by a whole-tree crew (Nash) which caused a lot of scarification throughout the stand. As a result, red pine regenerated extremely well throughout the majority of the stand, with only a few areas between skid trails that are lacking much regen. Aspen saplings are present in the southwestern 1/3rd of the stand and are overtopping much of the red pine, but competing regeneration is minimal in the remainder of the stand except for a few red maple stump sprouts. 5 regen survey plots were taken in the stand (focusing on pine regen) with the following results; red pine 1900 TPA (avg height 0.5-1 feet), white pine 120 TPA (avg height 0.5-1 feet). Residual ba/acre = 36 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		2	Log/XLog	16		Red Pine		High	< 5 feet	Seeding	
Red Oak		12	Log	14		White Pine		Low	< 5 feet	Seeding	
Red Pine		86	Log/XLog	15	95	Jack Pine		Low	< 5 feet	Seeding	
						Bigtooth Aspen		Medium	10 - 20 feet	Sapling	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
58	42210 - Natural Red Pine	Sawtimber Poor	17.3	95	1-50	N/A	This stand had a shelterwood cut done in 2018 in the sale DUBY Lake Road Mix, bought and cut by Randy Nash (whole-tree harvest). The residual overstory is good quality natural pine (possibly two ages of red pine in the residual). Natural red pine and jack pine has regenerated well in the most heavily scarified places such as skid trails and roads, and overall seems to be more numerous in the north half of the stand. Aspen regen is more common in the south half of the stand and is overtopping the pine regen in many places. While most of the stand is upland, there are some areas of wetter ground around the edges. Average ba/acre from 6 plots = 33 square feet. Leave the overstory trees indefinitely and manage for the understorey in the future.																																																																	
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59	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	23.8	17	Immature	N/A	Clearcut in 2007. Aspen and jack pine have regenerated very well and the stand is fully-stocked. Trace of red pine saplings. Trace of residual red oak (log/xlog). Some white pine were left along the High Country Pathway which travels east-west through the entire stand. Flat terrain.																																																																	
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60	6229 - Mixed lowland shrub	Nonstocked	5.4	0	Unspecified	No	Wet lowland stand with a thick lowland shrub component throughout. In my opinion, just slightly below the threshold to qualify as a forested stand. Pockets of fir and spruce are present, more numerous in the south half. Next entry this may potentially be a Q1 or Q4. Very difficult stand to navigate through due to alder and holly. After walking through the north half, I only looked at the south half from the east edge. Black ash used to be a common species in the stand but it is now all dead and mostly fallen over.																																																																	
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61	42210 - Natural Red Pine	Sawtimber Well	7.5	91	81-110	N/A	Nice natural red pine stand bordering the Dog Lake Marsh. Thinned in 2006. Red pine has regenerated well in areas of the south half. Average ba/acre from 5 plots = 98 square feet. Hummocky ground with several lowland pockets. The High County Pathway travels through the north end of the stand. Manage for large diameters and uneven-aged structure. No even-aged regeneration techniques due to the proximity to the Dog Lake Marsh.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
62	42290 - Natural Mixed Pine	Sapling Well	4.0	26	Immature	N/A	Decent stand of young jack pine, although there are areas where it is not well-stocked. Aspen regeneration is more common in the south half of the stand. Scattered red pine residual trees that are present in all 3 size classes, including some relict XL-sized trees. The residual is more numerous in the north half of the stand. A handful of red oak saplings are present. The ground in the northeast part of the stand becomes "hummocky" and may be seasonally wet. Heavy huckleberry component at the ground level.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Oak		1	Sapling	3				
Bigtooth Aspen		17	Sapling/Pole	3				
White Pine		13	Pole/Sap/Log	6				
Jack Pine		48	Sapling/Pole	3	26			
Red Pine		18	Log/Pole/XLog	12	60			
Red Maple		3	Sapling	3				
63	42290 - Natural Mixed Pine	Sawtimber Well	2.3	72	111-140	N/A	Narrow strip of mixed pine between Duby Lake Rd and Dog Lake marsh. Red pine is more frequent in the north half, while the middle part of the stand has more jack pine, and the south end has more white pine. Some of the jack pine are starting to die. Heavy huckleberry component at the ground level. Trace of paper birch (pole). Average ba/acre from 4 plots = 115 square feet. No management.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		28	Pole/Log	9				
White Pine		17	Log/XLog/Pole	15				
Black Spruce		3	Pole	7				
Red Pine		49	Log/Pole/XLog	13	72			
Red Maple		3	Pole/Log	8				
Sub-Canopy Species		Density	Avg. Height	Size				
White Pine		Medium	Variable	Sapling				
Red Maple		Trace	Variable	Sapling				
Red Pine		Trace	Variable	Sapling				
Balsam Fir		Low	Variable	Sapling				
Black Spruce		Low	Variable	Sapling				
64	42210 - Natural Red Pine	Sawtimber Well	11.3	73	51-80	N/A	Moderate quality red pine stand. Stocking is variable due to a species removal harvest (all aspen, red maple, and jack pine cut) in 2019 (Osmun Lake Red Pine, #53-023-16, Precision). Some red pine were marked to cut as well. A second age class of larger, older red pine is scattered throughout the stand, although more common in the west finger. The small portion of the stand north of Road 120 looks planted, the remainder of the stand appears to be natural. No planting records are available for this area. Trace of red maple and balsam fir poletimber. Average ba/acre from 6 plots = 70 square feet. No activity will be needed in this stand for many years due to the low BA. Manage for natural red pine, using two-aged techniques with scarification or fire.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Oak		10	Log/Pole	12				
Red Pine		86	Log/Pole/XLog	12	73			
White Pine		4	Pole/Log	8				
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		Medium	< 5 feet	Seeding				
Red Pine		Low	Variable	Sapling				
Bigtooth Aspen		Medium	< 5 feet	Seeding				
Red Oak		Low	< 5 feet	Seeding				
White Pine		Low	Variable	Sapling				
65	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	7.4	82	111-140	N/A	Mixed species stand that sits on an upland/lowland transition. The west half of the stand is drier, while the east half has some inclusions of wet ground. Scattered clumps of cedar are present throughout, with some hemlock mixed in. Supercanopy red and white pine can be found throughout as well, with some of the white pine being well over legacy tree size. The spruce is good quality in most places. The far west end of the stand is more of a pine/oak mix. Average ba/acre from 4 plots = 123 square feet. Leave unmanaged due to the species mix (cedar/hemlock/legacy pine) and areas of wet ground which would reduce the amount of treatable acreage.	
Canopy Species		% Cover	Size Class	DBH	Age			
Paper Birch		6	Pole	8				
Balsam Fir		22	Pole	7				
Northern White Cedar		16	Log/Pole	10				
Hemlock		4	Log/Pole	12				
Red Maple		12	Pole/Log	8				
Red Pine		3	Log/XLog	15				
White Pine		8	XLog/Log/Pole	20				
Red Oak		2	Log	14				
Black Spruce		27	Pole/Log	8	82			
Sub-Canopy Species		Density	Avg. Height	Size				
Red Oak		Trace	Variable	Sapling				
Red Maple		Low	Variable	Sapling				
Black Spruce		Trace	Variable	Sapling				
Balsam Fir		Medium	Variable	Sapling				
Tag Alder		Trace	10 - 20 feet	Tall Shrub				
White Pine		Low	10 - 20 feet	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
66	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	5.6	96	111-140	N/A	<p>Very nice natural red pine stand that had an aspen/red maple species removal harvest long ago. Aspen came back well in a few small pockets, mostly along the east/southeast edge of the stand. The red pine residual is scattered in the south half of the stand but is uniform and densely stocked in the north half. A handful of red oak (young and old trees) are at the north end. Trace of jack pine (pole) and black spruce (pole) in the overstory. Average ba/acre from 6 plots = 132 square feet. Some areas of wet ground along the east edge. Heavy huckleberry component at the ground level. No management until the aspen component matures more. Manage for natural red pine.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		1	Pole	7		Tag Alder		Trace	10 - 20 feet	Tall Shrub	
Red Maple		10	Pole	7		Bigtooth Aspen		Low	>20 feet	Sapling	
Bigtooth Aspen		27	Pole/Sapling	7	47	Red Maple		Low	Variable	Sapling	
Red Oak		1	Pole/Log	8		Balsam Fir		Low	Variable	Sapling	
White Pine		13	Pole/Log/XLog	8		White Pine		Low	Variable	Sapling	
Red Pine		48	Log/XLog	16	96	Beech		Trace	Variable	Sapling	
						Black Spruce		Trace	Variable	Sapling	
67	4130 - Aspen	Sapling Well	28.1	6	Immature	N/A	<p>This stand was clear cut in 2018 in the sale Duby Lake Road Mix, bought and cut by Randy Nash (whole-tree harvest). A few red oak seed trees are scattered throughout. Aspen regeneration has come back pretty well and browse has not impacted the regeneration very much. Areas of good jack pine regeneration in spots that were heavily scarified, such as the landing in the northeast part of the stand. However, outside of the landing the aspen is often overtopping the pine regen. The east and west sides of the stand dip down into lowland and there isn't as much aspen regen in these spots, however a mix of conifer seedlings were noted in those areas that were scarified during harvesting operations.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Sapling	1		Black Spruce		Trace	< 5 feet	Seeding	
Bigtooth Aspen		68	Sapling	1	6	Jack Pine		Medium	< 5 feet	Seeding	
Red Oak		5	Log	14		Red Pine		Low	< 5 feet	Seeding	
Jack Pine		17	Sapling	1		Balsam Fir		Trace	< 5 feet	Seeding	
68	4130 - Aspen	Poletimber Well	24.3	57	111-140	N/A	<p>Nice aspen stand with a lot of variation in diameters. Some areas are an A9 whereas others have diameters in the 6-8" DBH range. Large component of oak in the stand, most of which is large diameter, high quality, and healthy. There are a few scattered sapling and poletimber oak, although rare overall. Some of the oak can be found in pure "clumps", particularly along the southwest edge of the stand, which has a clump that is almost large enough to be its own stand. Trace amount of white pine over 20" DBH. Trace of balsam fir poletimber. Average ba/acre from 15 plots = 119 square feet. Clearcut in 1967 by Claude Post (A, JP, RM only).</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		6	Pole	6		Red Maple		Low	Variable	Sapling	
Red Oak		10	Log/XLog	16	95	Balsam Fir		Low	Variable	Sapling	
White Pine		5	Pole/Log	8		White Pine		Medium	Variable	Sapling	
Jack Pine		1	Pole	7							
Bigtooth Aspen		74	Pole/Log	8	57						
Red Pine		4	Log/XLog/Pole	13							
69	4311 - Pine, Aspen Mix	Poletimber Well	10.4	57	141-170	N/A	<p>Mixed species stand dominated by aspen and red pine. The aspen component is small for its age and not the best quality. Red pine on the other hand grows well on this site and is mostly good quality. A second age class of larger relict red pine is present, although relatively rare in the stand. A few legacy white pine can be found scattered throughout as well. Average ba/acre from 5 plots = 166 square feet. Manage with stand 68 to the west.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		39	Log/Pole/XLog	13	93	White Pine		Medium	Variable	Sapling	
Bigtooth Aspen		40	Pole	8	57	Balsam Fir		Trace	Variable	Sapling	
Red Maple		12	Pole	6		Red Maple		Low	>20 feet	Sapling	
White Pine		4	Pole/Log	8							
Red Oak		5	Log/XLog	15	93						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
70	6130 - Fir, Aspen, Maple	Poletimber Poor	12.9	57	1-50	N/A	<p>Poorly-stocked stand that is very wet in many places with Weed Creek flowing north/northeast through the stand. An old railroad grade runs east/west through the middle of the stand and composition does vary somewhat based on which side of the grade you are on. North of the grade is exclusively lowland and poorly stocked. Black ash poletimber used to be a major component of this part of the stand but is now all dead from EAB. Black ash saplings are abundant throughout this northern half of the stand, but some of the larger saplings (3-4" DBH) are showing signs of EAB infection. There are areas of standing water directly south of the grade as it appears the grade has caused some drainage issues for the creek. Scattered upland inclusions are present as you travel further south, with white pine being the dominant species in places, along with a mixture of mature aspen and red maple. Trace of tamarack (pole) and red pine (log/xlog) in the overstory. Average ba/acre from 9 plots = 47 square feet. Too wet for management.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		23	Pole/Sapling	6		Michigan Holly		Low	5 - 10 feet	Tall Shrub	
Paper Birch		5	Pole	6		Nannyberry		Low	5 - 10 feet	Tall Shrub	
White Pine		28	Log/Pole/XLog	12	57	Tag Alder		High	10 - 20 feet	Tall Shrub	
Quaking Aspen		20	Log/Pole	12	57	Paper Birch		Low	>20 feet	Sapling	
Balsam Poplar		6	Pole/Log	8		Balsam Fir		Low	Variable	Sapling	
American Elm		2	Pole	7		Red Maple		Trace	Variable	Sapling	
Northern White Cedar		3	Pole/Log	8		Black Ash		High	>20 feet	Sapling	
Red Maple		13	Pole/Log	8							
71	42210 - Natural Red Pine	Sawtimber Well	9.3	100	141-170	N/A		Currently under contract.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		20	Log	13		Red Maple		High	5 - 10 feet	Sapling	
Quaking Aspen		10	Log/Pole	10		Beech		Low	5 - 10 feet	Sapling	
Paper Birch		2	Pole/Log	8		White Pine		Low	Variable	Sapling	
Red Pine		60	Log/Pole/Sap	13	100	Balsam Fir		Medium	10 - 20 feet	Sapling	
Red Maple		8	Log/Pole	10							
72	622 - Lowland Shrub	Nonstocked	23.9		Unspecified	No	Did not visit, looks like an L type on imagery. A stream flows through the stand.				
73	623 - Emergent Wetland	Nonstocked	3.8		Unspecified	No					
74	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	23.8	67	111-140	N/A	<p>Eastern portion of this stand previously belonged to Stand 76. An old R.R. Grade travels ~E/W through the ~center of this stand. Upland ground present along a good portion of northern and southern boundaries. Low/wet ground located within interior. Obvious beaver activity though did not appear very recent. Elk sign too, bumped at least one animal out of this stand during my visit. Scattered large WP/NWC. Trace species include YB (P/S), BAM (P/L) and a couple apple trees (one sap on RR grade, then a small pole near Stand 79). BA swings= 100,200,130,70,50 (110avg).</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		6	Log/XLog/Pole	16		Black Ash		Low	5 - 10 feet	Sapling	
Red Maple		12	Pole/Sapling	7		Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Tamarack		8	Pole/Sap/Log	7		Apple (spp.)		Trace	10 - 20 feet	Pole	
Balsam Fir		35	Pole/Sap/Log	8	67	Balsam Fir		High	Variable	Sapling	
White Spruce		10	Log/Pole	11							
Paper Birch		5	Pole/Sapling	7							
Northern White Cedar		5	Log/Pole/XLog	15							
Black Spruce		4	Pole	8							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
75	623 - Emergent Wetland	Nonstocked	7.6		Unspecified	No	Beaver activity, old R.R. Grade(s) and Weed Creek are all influencing the amount of water this stand experiences on any given year. East half is non-forested and an emergent wetland. West half is forested in areas with conifer and deciduous species. There's actually two R.R. Grades present, one that's quite obvious and travels NW/SE through the center of this stand. Then another near the northern boundary of this stand, formally located in Stand 74.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
76	429 - Mixed Upland Conifers	Sawtimber Well	6.6	59	81-110	N/A	This stand is the result of being excluded when Stand 78 was harvested in the early 90's. Stand 'toggles' between DBH's and species depending on location. Western area holds P/S sizes until nearing the north boundary where L/XL WP picks up. As you move into the narrow east, larger stems of various species increase. NWC and some WP are definitely older (estimated a second age). Old R.R. Grade and beaver activity (old/new) in south is influencing hydrology. Seasonal drainage present near center of stand. Trace species include RO (P/L), RP (L/XL), and HM (P). BA swings= 50,100,110,140,130 (106avg).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Log/XLog	15		Striped Maple	Trace	10 - 20 feet	Sapling
White Pine	38	Log/Pole/XLog	12	59	Black Spruce	Low	Variable	Sapling
White Spruce	8	Pole/Log	9		Paper Birch	Low	>20 feet	Sapling
Balsam Poplar	3	Log/Pole	12		Black Cherry	Trace	10 - 20 feet	Sapling
Balsam Fir	20	Pole/Log	8		White Pine	Medium	>20 feet	Sapling
Tamarack	8	Log/Pole/XLog	12		White Spruce	Medium	10 - 20 feet	Sapling
Red Maple	5	Pole/Sap/Log	7		Sugar Maple	Trace	>20 feet	Sapling
Northern White Cedar	3	Log/Pole	12	105	Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch	5	Pole/Log	8		Black Ash	Low	10 - 20 feet	Sapling
					Balsam Fir	High	10 - 20 feet	Sapling
					Black Cherry	Trace	>20 feet	Pole

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
77	4139 - Aspen, Mixed Deciduous	Sawtimber Well	21.7	88	111-140	N/A	Currently under contract. Access to stand was granted by landowner to the north. Blue line along north boundary will need to be established.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	15	Log	14		Beech	Medium	5 - 10 feet	Sapling
Balsam Fir	3	Pole	8		Ironwood	Medium	5 - 10 feet	Sapling
Red Pine	2	Log	12		Red Maple	High	10 - 20 feet	Sapling
Quaking Aspen	29	Log/Pole	11	88	Balsam Fir	Low	Variable	Sapling
Red Oak	11	Log/Pole	12					
Red Maple	20	Pole	6					
White Pine	8	Log/Pole	10					
Paper Birch	10	Log/Pole	10					
Basswood	2	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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78 4191 - Mixed Upland Deciduous with Conifer Sapling Well 59.6 32 1-50 N/A Scheele '17: Real nice Paper Birch regeneration in some areas. White Pine is very branchy and multi-stemmed with high weevil damage. JSP, '24: Based on ownership cards, final harvested early '90's as 52-065-90-01. Wish I had more than 100% to work with, to represent canopy species better... Many species present. Most species listed in sub-can are actually canopy species, present as Sap/Pole. As Scheele mentioned above, very strong PB regen in areas. Then heavy QA, BAM and WP in spots. Consistent WhtSprc and Larch. More maple (mostly RM) in north near M9 stands. Then smaller RP/RO/Ash components here and there. Stand is very much Up w/Low, water table appears to be very close to surface. Small inclusions of pole/log (unharvested) stems in S.E. against G0 Stands 79/80.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	10	Sapling/Pole	4		Tag Alder	Low	10 - 20 feet	Tall Shrub
White Pine	20	Pole/Sapling	7		Red Oak	Low	>20 feet	Sapling
Balsam Poplar	10	Sapling/Pole	4		Willow spp.	Medium	10 - 20 feet	Tall Shrub
Paper Birch	22	Sapling/Pole	3	32	Balsam Fir	Medium	10 - 20 feet	Sapling
White Spruce	6	Sapling/Pole	3		Black Ash	Low	>20 feet	Sapling
Red Pine	2	Sapling/Pole	4		Ironwood	Low	10 - 20 feet	Sapling
Quaking Aspen	22	Sapling	4		Red Maple	Low	>20 feet	Sapling

79 3303 - Mixed Low Density Trees Nonstocked 1.3 Unspecified No Conifer and some deciduous species of P/S size (some log on perimeter) are reclaiming this opening.

80 310 - Herbaceous Openland Nonstocked 2.3 Unspecified No Deciduous and some conifer species are establishing quite well along perimeter locations.

81 4112 - Maple, Beech, Cherry Association Sawtimber Well 16.9 92 81-110 N/A Scheele '16: Poor quality hardwood, many multi-stem trees. High BE scale, some BE and RM are breaking apart. Small pocket of RP in north/center of stand. BA=113.JSP '24: Same story as Stand 83, poor quality/perhaps browsed at young age. A few more species mixing in, BW in south and PB/BTA in west. Dense pocket of sapling BE in N.E. (fewer canopy trees there too). BE regen is High to Full throughout and 5-20ft. Trace RO (1 pole/1xlog) and Hemlock (1-pole and 1-sap in west). BA swings= 90,110,110,40,70,90 (85avg).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	4	Log/XLog	15		Ironwood	Medium	>20 feet	Sapling
White Pine	2	Log/Pole	15		Striped Maple	Trace	10 - 20 feet	Sapling
Beech	24	Log/Pole/XLog	12		Balsam Fir	Low	10 - 20 feet	Sapling
Red Pine	3	Log/Pole	12		White Pine	Trace	10 - 20 feet	Sapling
Sugar Maple	24	Log/Pole/XLog	12	92	Red Oak	Trace	10 - 20 feet	Sapling
Paper Birch	2	Pole/Log	9		Beech	Full	10 - 20 feet	Sapling
Basswood	4	XLog/Log	18					
Red Maple	34	Log/Pole/XLog	14	92				
Balsam Fir	3	Pole/Sapling	7					

82 42110 - Planted Red Pine Sawtimber Medium 22.6 58 81-110 N/A Scheele '17: Snake Line Red Pine, third row-thinned, 52-131-09-01. Completed 4/8/14. Multi-stem, large crown hardwood trees were removed during last thinning. Nice quality RP in spots.JSP '24: Northern portion of stand tended to have ~better stocking, some areas in south too. Stocking as a whole is quite erratic, though some decent quality RP stems are present. Dense BE regen layer, ranges High to Full and 5-20ft tall. Elk/deer browse has kept RM regen less than 5ft. Trace RO (P/L), PB (P/S) and RM (P). BA swings= 140,50,100,110,120,60,120,150,120,60 (103avg).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	96	Log/Pole	11	58	Black Cherry	Low	5 - 10 feet	Sapling
White Pine	4	Log/Pole	14		Balsam Fir	Low	5 - 10 feet	Sapling
					Red Oak	Trace	10 - 20 feet	Sapling
					Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub
					Ironwood	Low	5 - 10 feet	Sapling
					Quaking Aspen	Low	10 - 20 feet	Sapling
					Red Maple	Medium	< 5 feet	Sapling
					Beech	High	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
83	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.3	92	111-140	N/A	Scheele '16: Poor quality hardwood. Small, planted un-thinned pockets of Red Pine within stand. BA = 111 JSP '24: Yes, surprisingly poor quality. Might of suffered cattle/elk browse at a young age? Multi-stem very common. Beech present in canopy is dead and/or very close to expiring (BBD). High to Full beech in sub-canopy, ranging 5-20ft tall. Trace species include RO (pole) and PB (log). BA swings= 110,130,160,50,110,120 (113avg).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		18	Log/Pole	12		Red Oak		Trace	10 - 20 feet	Sapling
Black Cherry		2	Pole/Log	9		Balsam Fir		Low	Variable	Sapling
White Pine		2	Pole/Log	8		Striped Maple		Trace	10 - 20 feet	Sapling
Sugar Maple		18	Log/Pole/XLog	12		Ironwood		Low	10 - 20 feet	Sapling
Beech		20	Log/Pole/XLog	14		Beech		High	10 - 20 feet	Sapling
Red Maple		40	Log/Pole/XLog	12	92					
84	4139 - Aspen, Mixed Deciduous	Sapling Well	47.0	23	1-50	N/A	Based on ownership cards, final harvested ~'01 under contract 52-113-99-01. A little bit of everything present, depending on location. South boundary along R8 Stand 82 very heavy to BE. So is an area in east, as you near M9 Stand 87. Seasonally wet ground radiates out around from Stand 85. This stand slopes down toward 85. Obvious elk/deer usage observed. Some small openings scattered throughout. Slopes (steeper but not steep) along southern boundary. Some residual oak here/there, as are a few red pine.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		5	Sapling/Pole	3		Ironwood		Medium	10 - 20 feet	Sapling
White Pine		3	Sapling/Pole	4		Beech		High	10 - 20 feet	Sapling
Paper Birch		5	Sapling/Pole	3		Honeysuckle (spp.)		Trace	< 5 feet	Tall Shrub
Black/Red (Hybrid) Oak		10	Sapling/Pole	3						
Quaking Aspen		40	Sapling/Pole	4	23					
Bigtooth Aspen		18	Sapling/Pole	4	23					
Black Cherry		5	Sapling/Pole	3						
Red Maple		10	Sapling/Pole	2						
Red Pine		4	Sapling/Pole	4						
85	6130 - Fir, Aspen, Maple	Poletimber Medium	9.4	100	Unspecified	N/A	Scheele '17: This stand is a leave strip from a sale completed in 2000. The strip was too wet to harvest, still is. JSP '24: Canopy closure is 75-100% at the 'ends' of the stand. The remainder is 50-75% closure because the edges of the drainage are all that tend to be forested. Small stream was moving water east during visit. Saplings from Stand 84 are mingling along the edges of this stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Poplar		6	Pole/Log	9		Balsam Poplar		Medium	5 - 10 feet	Sapling
Red Maple		10	Pole/Log/XLog	8		Beech		Low	5 - 10 feet	Sapling
Balsam Fir		38	Pole/Sap/Log	7		Black Ash		Medium	5 - 10 feet	Sapling
Hemlock		3	Pole/Sapling	7		Balsam Fir		Medium	Variable	Sapling
Northern White Cedar		5	Pole/Sap/Log	8						
Quaking Aspen		38	Log/Pole	15	100					
86	6112 - Lowland Aspen	Sapling Well	57.3	11	Immature	N/A	JSP '24: PU's 4/5 (of 6), sale 'Blasten Aspen', 521030910. Closed 12/2/13. Prep by Coy, admin by Tricia St. P. JSP '24: Regenerating fairly well in most locations I visited. Wetter areas had lower stocking but will likely fill in with BF over time. One obvious drainage observed/captured w/3J condition. The drainage, lower areas and ruts from harvest were moving/holding water during March '24 visit. Fairly consistent invasive honeysuckle throughout. Raspberry still prevalent. Definite mix of Lowland w/Up. Some residual stems present; oak, NWC, BF here/there. More resid in far south where it got tricky for producer to operate. Northwest holds four areas that were 'Too wet' to cut, now captured w/2G. Those areas mainly sap/pole dominant.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		12	Sapling	2		Honeysuckle (spp.)		Medium	< 5 feet	Tall Shrub
Black Cherry		4	Sapling	2		Willow spp.		Medium	5 - 10 feet	Sapling
Balsam Fir		16	Sapling/Pole	3		Ironwood		Low	5 - 10 feet	Sapling
Balsam Poplar		8	Sapling	2		Red Pine		Trace	5 - 10 feet	Sapling
Quaking Aspen		56	Sapling	2	11	White Pine		Low	5 - 10 feet	Sapling
Bigtooth Aspen		4	Sapling	3		Beech		Low	5 - 10 feet	Sapling
						Black Ash		Low	5 - 10 feet	Sapling
						Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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87 4119 - Mixed Northern Hardwoods Sawtimber Well 38.9 95 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	24	Log/Pole/XLog	12	95	Hemlock	Trace	>20 feet	Pole
Sugar Maple	22	Log/Pole/XLog	12	95	Balsam Fir	Low	>20 feet	Pole
Red Oak	15	Log/Pole/XLog	12		Ironwood	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	8	Log/XLog	17		Red Maple	Low	>20 feet	Sapling
Yellow Birch	2	Log/Pole	14		Red Oak	Low	>20 feet	Sapling
Red Maple	22	Log/Pole/XLog	12		Yellow Birch	Trace	>20 feet	Sapling
Basswood	5	Log	12		Balsam Fir	Low	10 - 20 feet	Sapling
Paper Birch	2	Log/Pole	11		Beech	High	5 - 10 feet	Sapling

Based on ownership cards, TSI cuts might have occurred here ~'46, '51, '63ish. Yikes, diameters and species dominance can vary depending on location. Difficult to arrive at an 'average DBH' for most species. Common to move from smaller log into L/XL and then into L/P or Pole. Some areas might be heavier to BE, or RM, or RO and so forth. North 1/2 more MD9, south more M9. North 1/2 sits atop a north facing slope, south 1/2 is east facing. In most cases, the faces bottom out against lowland stands. A good chain+ along this/these interfaces hold transitional/seasonally wet ground with some obvious vernal pond depressions that were holding water during visit. Oak tended to have better/cleaner overall form/quality. Some nice RO poles/saps in north. A few decent HM, RM, BW stems present, though overall quality (except RO) was marginal/poor. BE has just about had it or is expired (BBD). Heavy/consistent BE regen. BTA present in a few clonal pockets, some QA along lowland interface(s). Trace WP (L/P/XL), QA (L/XL), Hem (P) and BF (represented in sub-can list). BA swings= 110,90,160,100,130,70,110,90,140,70,120 (108avg).

88 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 7.5 66 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	38	Pole/Sapling	7	66	Balsam Fir	Medium	10 - 20 feet	Sapling
Paper Birch	10	Pole/Log	9		Ironwood	Low	10 - 20 feet	Sapling
Red Maple	38	Log/Pole	11	66	Red Maple	Low	10 - 20 feet	Sapling
Yellow Birch	6	Pole/Log	9		Sugar Maple	Low	>20 feet	Sapling
American Elm	3	Log/Pole	10		Beech	Low	5 - 10 feet	Sapling
Quaking Aspen	5	Log/XLog	16		Black Ash	Full	5 - 10 feet	Sapling

Many of the few canopy-stems present are declining and/or standing dead. The exception is fir, at least based upon appearance (most look healthy). The stand very likely/previously held a large component of canopy BlkAsh. Those fell out, increasing seasonal water levels and then over-stressed the species that remain(ed). Average canopy-closure is at the low-end of 50-75%. Dense/full with BlkAsh saps, mainly 5-10ft with obvious browse damage. West boundary is transitional, holds some larger M9 species from Stand 87. This stand was wet/moving water in areas yet most locations were walkable, likely seasonally upland. BA swings= 30,10,30,70,30 (34avg).

89 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Well 34.4 58 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Log/Pole/XLog	14		Beech	Medium	5 - 10 feet	Sapling
Red Pine	65	Log/Pole	10	58	Sugar Maple	Low	5 - 10 feet	Sapling
Red Maple	9	Log/Pole/XLog	12					
Red Oak	12	Log/XLog/Pole	16					
Sugar Maple	9	Log/Pole/XLog	14					

Scheele: Stand 1/3rd row thinned in December 2021 in the sale Walker Road Red Pine (#53-121-19), bought by Biewer. Variable DBH in Red Pine from 5" to 12". Some dense pockets of higher BA. Nice, tall trees in some pockets. Pockets of hardwood trees with very branchy Sugar Maple. JSP '24: As mentioned above, areas with good RP stocking, then areas of hardwood/some very wolfy. Some very large/multi-stem RO present. Intent of '21 row thin was to also remove all deciduous except oak. Some deciduous was cut, but most still present. Canopy-closure is variable, but still ranges 75-100% with hardwood component still present. Beech regen flushing out in many areas, will likely resemble Stand 82 high/full density before too long.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
90	4123 - Red Oak	Sawtimber Well	17.4	95	81-110	N/A	Scheele '17: Past TSI cut in the west part of the stand. JSP, '24: Based on ownership cards, TSI cuts might have occurred here ~'46, '51, '63ish. Xlog size RO prevalent, 25"-30+" DBH/Legacy sizes not uncommon. RO more dominant in E1/2. A mix of clean/nice form oak then others that are healthy but wolfy. Did not observe obvious sign of decline, oak looked healthy. BE, RM and HM of poorer quality and more prominent in W1/2. Large/wolfy multi-stem RM common. BE declining and/or expired (BBD). Stand thinning itself through BE decline. Aspen, though minimal, present in W1/2. One prominent BTA clone in far west, the scattered QA is getting tired. South boundary holds some smaller, P/S RM/RO and a few log WP. North/east boundaries mixing more w/M9 species. High to Full BE regen throughout. Trace hemlock (pole) and BW (L). Some BF poles, represented in sub-can list. BA swings= 230,60,60,70,90,80,40,140,70 (93avg).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	1	Log/XLog	17		Red Pine	Low		10 - 20 feet	Sapling
Sugar Maple	5	Log/Pole	14		Beech	High		5 - 10 feet	Sapling
Quaking Aspen	2	Log/XLog	17		Striped Maple	Low		5 - 10 feet	Sapling
Red Oak	60	XLog/Log/Pole	19	95	Red Maple	Low		10 - 20 feet	Sapling
Red Maple	16	Log/Pole/XLog	12		Ironwood	Low		10 - 20 feet	Sapling
Beech	16	Log/Pole/XLog	15		Balsam Fir	Low		10 - 20 feet	Sapling
					Red Oak	Trace		>20 feet	Sapling
					White Pine	Trace		10 - 20 feet	Sapling
					Balsam Fir	Low		>20 feet	Pole
91	6130 - Fir, Aspen, Maple	Poletimber Medium	11.5	68	51-80	N/A		Stand transitioning from log (many of which are dying out) to understocked poles/saps emerging from sub-canopy. Very wet with dense areas of lowland shrubs/mixed decid/conifer tree species. Ash was likely/previously a large component of the canopy. Not anymore.... Observed from southern and northern boundaries. Few log/xlog sized QA/RM stems remain alive. Trace WP (log).	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Balsam Fir	40	Pole/Sapling	6	68	Balsam Fir	Medium	5 - 10 feet		Sapling
Black Spruce	14	Pole/Sapling	5		Ninebark	Medium	5 - 10 feet		Tall Shrub
Paper Birch	10	Pole/Log	9		Black Ash	High	10 - 20 feet		Sapling
Red Maple	16	Log/Pole	12		Red Maple	Low	10 - 20 feet		Sapling
Yellow Birch	5	Pole/Log	8		Paper Birch	Low	10 - 20 feet		Sapling
Quaking Aspen	10	Log/XLog	16	92	Willow spp.	Medium	5 - 10 feet		Sapling
Northern White Cedar	5	Pole	7		Tag Alder	Medium	10 - 20 feet		Tall Shrub
92	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.8	0	Unspecified	No	Landing area for timber sale that occurred within Stand 86 in 2013. Unsure if this area was previously a smaller, non-forested portion of the stand? Or if the producer created an expansive landing.		
93	42210 - Natural Red Pine	Sawtimber Well	4.9	73	81-110	N/A	Variable red pine stand due to a species removal harvest in 1998 (Osmun Aspen Plus, #53-006-96, Alan Lamberson). At least two age classes of red pine are present in this stand; one includes large diameter, relict red pine, which are mostly along the east edge. The second is more frequent in the stand and includes trees mostly in the 8-14" diameter range. Basal areas are somewhat variable due to the species removal. The middle part of the stand has the lowest stocking and most of the jack pine regeneration. Trace of red maple (pole) and jack pine (pole). Average ba/acre from 4 plots = 95 square feet. No planting records for this stand so it can assumed to be of natural origin. Do not manage until BAs increase to a higher level. Manage for natural pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	1	Pole	8		Jack Pine	Medium		Variable	Sapling
Red Pine	94	Log/Pole/XLog	12	73	Red Maple	Low		Variable	Sapling
White Pine	5	Pole	6		Balsam Fir	Trace		Variable	Sapling
					White Pine	Medium		Variable	Sapling
					Black Spruce	Trace		Variable	Sapling
					Red Pine	Low		Variable	Sapling
94	42110 - Planted Red Pine	Poletimber Well	2.8	68	201+	N/A		Small stand of planted red pine. It was included in the recent thinning in the surrounding stand 30, but hardly any trees were marked in this stand for some reason, except for a few along the edges. Average ba/acre from 3 plots = 210 square feet. Thin when stand 30 is treated again, otherwise a new road will have to be built to get to the stand, which seems unnecessary due to its small size.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Pine	92	Pole	8	68	Balsam Fir	Trace	Variable		Sapling
Bigtooth Aspen	4	Log	14		White Pine	Trace	Variable		Sapling
White Pine	3	Pole	7						
Red Oak	1	Log/Pole	14						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
95	42210 - Natural Red Pine	Poletimber Well	14.4	68	111-140	N/A	<p>Younger red pine stand with sporadic stocking due to an aspen/red maple species removal harvest in 1983. Many areas of dense stocking, some of which appear planted, alternating with areas of lower basal areas. Stunted red pine saplings and poletimber (all a part of the same 67 year old age class) are abundant in areas where they are being overtopped by oak. There are no planting records for this area and furrows are not evident on the ground. A second age class of large log/XL log red pine are scattered throughout. The northern third of the stand slopes down to the north. Average ba/acre from 7 plots = 136 square feet. This stand should be thinned next entry. Thin from below, removing the stunted red pine stems, and maintain the oak and white pine component.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	8	Pole/Log	8		Red Maple	Trace		>20 feet	Sapling
Red Oak	14	Log/XLog	14	95	White Pine	Low		Variable	Sapling
Red Pine	78	Pole/Log/XLog	9	68	Red Pine	Medium		>20 feet	Sapling
96	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	10.2	63	81-110	N/A	<p>2-aged stand dominated by red pine and oak. The younger age class of red pine is more common however a second age class of larger, older red pine (same age as the oak) is scattered in clumps throughout the stand. The east/northeast part of the stand is on an elevated knob with steep slopes down to the west. The white pine understory is thick in areas, especially east of the road. Some white pine close to legacy tree size are present in the northwest part of the stand. Trace of balsam fir, black spruce, bigtooth aspen, and paper birch (all poletimber size). Average ba/acre from 8 plots = 95 square feet. No management necessary at this time, let the pine grow more before a treatment is prescribed. Manage for natural pine.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	57	Log/Pole/XLog	12	63	Bigtooth Aspen	Trace		>20 feet	Sapling
White Pine	13	Pole/Log/XLog	8		White Pine	High		Variable	Sapling
Red Oak	25	Log/XLog/Pole	14	98	Balsam Fir	Trace		Variable	Sapling
Bigtooth Aspen	2	Log	13		Red Maple	Low	Variable	Sapling	
Red Maple	3	Pole	6						
97	4310 - Pine, Oak Mix	Sawtimber Well	9.2	98	51-80	N/A	<p>Moderate to poor quality mixed species stand. Most of the red pine is in the 62 year old age class, although there are a few larger, older red pine scattered throughout. Jack pine is mostly in a vein along the western 1/3rd of the stand. Quite a bit of red pine in the understory. Average ba/acre from 9 plots = 79 square feet. This stand sits on a small knob/ridgeline.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Jack Pine	11	Pole	7	63	Red Pine	Medium		Variable	Sapling
Bigtooth Aspen	2	Pole/Log	8		Bigtooth Aspen	Trace		>20 feet	Sapling
Red Pine	36	Log/Pole/XLog	12	63	Balsam Fir	Low		Variable	Sapling
Red Maple	7	Pole	6		White Pine	Low	Variable	Sapling	
White Pine	4	Pole/Log	8		Red Maple	Low	Variable	Sapling	
Red Oak	40	Log/Pole	14	98					
98	4199 - Other Mixed Upland Deciduous	Sawtimber Well	9.5	95	111-140	N/A	<p>Stand that is nearly an even mix between oak and aspen and sitting on a series of steep side-slopes. The south half of the stand has slightly more aspen and sits on an east facing slope. The north half sits on a north facing slope and has more oak. Aspen and oak quality is generally better in the north half and there are some larger pine present in this area as well as some better site quality hardwood species in the understory (sugar maple, striped maple, ironwood). Some of the aspen is starting to senesce in the south half. Trace of hemlock and XL-sized white pine. Average ba/acre from 8 plots = 121 square feet. The majority of this stand is inoperable except for a thin strip along the base of the slope. No management recommended.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	4	Pole/Log/XLog	9		Red Maple	Low		>20 feet	Sapling
Red Oak	40	Log/Pole	13	95	White Pine	Medium		Variable	Sapling
Bigtooth Aspen	39	Log/Pole	12	95	Beech	Low		Variable	Sapling
Beech	1	Pole	7		Striped Maple	Low	Variable	Sapling	
White Pine	6	Pole/Log	8		Ironwood	Trace	Variable	Sapling	
Paper Birch	1	Pole	8		Red Pine	Trace	>20 feet	Sapling	
Red Maple	9	Pole	7		Sugar Maple	Trace	>20 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
99	6124 - Lowland Spruce-Fir	Sapling Medium	9.5	36	51-80	N/A	Stand clearcut in 1988 by Harvey Sanders, and then the area subsequently burned in a wildfire due to a skidder malfunction. The site was seeded with cedar, black spruce, and fir the following winter with a snowmobile and cyclone seeder. Supposedly an enclosure was put in the stand as well to monitor browse impacts on the cedar but I did not find it. The middle part of the stand regenerated moderately well to a mix of species however the east and west ends did not and are basically L types at this time. Cedar is absent from the stand. The thick alder component makes this a difficult stand to get through and I did not look at the northern 1/2 of the stand. The ground is very wet throughout most of the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		3	Sapling	3		Black Spruce		Trace	Variable	Sapling	
Red Pine		1	Pole	6		Tag Alder		Full	Variable	Tall Shrub	
Black Spruce		43	Sapling/Pole	4	36	Willow spp.		Low	Variable	Tall Shrub	
Balsam Fir		10	Sapling	3		Balsam Fir		Low	Variable	Sapling	
Red Maple		3	Sapling	3							
Tamarack		18	Pole/Sapling	5							
Balsam Poplar		11	Sapling	3							
Paper Birch		9	Sapling	3							
White Spruce		1	Sapling/Pole	3							
White Pine		1	Sapling/Pole	4							
100	4199 - Other Mixed Upland Deciduous	Sawtimber Well	10.6	95	111-140	N/A		High quality red oak with smaller, suppressed hardwoods mixed in throughout most of the stand. The north edge transitions to more of a red maple/fir type as you get closer to the lowland edge. Some small clumps of aspen are scattered throughout, with many of them being overmature and good wildlife trees. Several nice paper birch stems. Average ba/acre from 9 plots = 122 square feet. Terrain slopes gradually down to the north. Small acreage to treat on its own so look at this thinning this stand when adjacent stands to the south are treated in the future.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Pine		2	Log/XLog	15		Ironwood			Medium	Variable	Sapling
Balsam Fir		1	Pole	6		Balsam Fir			Medium	Variable	Sapling
Sugar Maple		5	Pole	6		Sugar Maple			Low	>20 feet	Sapling
Paper Birch		10	Log/Pole	10		White Pine			Trace	Variable	Sapling
Basswood		1	Log/Pole	11		Beech			Low	Variable	Sapling
Red Maple		25	Pole/Log	8	73	Red Maple			Medium	>20 feet	Sapling
White Pine		3	Log/Pole/XLog	14							
Quaking Aspen		8	Log	14							
Red Oak		30	Log/XLog/Pole	15	95						
Bigtooth Aspen		15	Log/XLog	15							
101	4133 - Aspen, Mixed Pine	Sawtimber Well	3.4	58	111-140	N/A	Aspen dominated stand sitting on a steep northwest facing slope. The aspen and red oak are only moderate quality. Trace of XL-sized red and white pine. Average ba/acre from 5 plots = 120 square feet. Some small areas at the base of the slope along the western half of the stand would be operable but the remainder is not. No management recommended.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		12	Pole	7		White Pine		Medium	Variable	Sapling	
Bigtooth Aspen		52	Log/Pole	11	58	Beech		Low	Variable	Sapling	
Red Pine		13	Pole/Log	9							
Paper Birch		2	Pole	7							
Red Oak		14	Log/Pole	12	95						
White Pine		7	Pole/Log	8							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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102 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Poor 10.2 63 1-50 N/A

Wet, poorly-stocked stand. Large diameter aspen used to be a high component of the canopy but almost all have died and fallen over, with the exception of some along the west edge of the stand. Black ash poletimber previously occupied a large percentage of the overstory as well but these are now all dead due to EAB and are either standing as snags or have fallen over. However, black ash saplings are abundant throughout the entire stand and are poised to dominate the canopy in the future if they can survive EAB. Average ba/acre from 5 plots = 28 square feet. Weed Creek flows east-west through the far northern end of the stand. Did not visit the northern 1/3rd of the stand but from imagery this part has most of the conifer component.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
American Elm	6	Pole	5		Red Maple	Low	>20 feet	Sapling
White Spruce	1	Pole/Log	8		Balsam Fir	Low	Variable	Sapling
Balsam Fir	26	Pole/Sapling	6		Black Ash	Full	Variable	Sapling
Red Maple	45	Pole/Sapling	7	63	American Elm	Trace	>20 feet	Sapling
Paper Birch	6	Pole	7		Tag Alder	Medium	Variable	Tall Shrub
Northern White Cedar	5	Pole/Log	8		Cattail spp.	Low	Unspecified	Non-Wood
Quaking Aspen	9	Log	14		Michigan Holly	Trace	5 - 10 feet	Tall Shrub

103 42210 - Natural Red Pine Sawtimber Well 3.9 61 141-170 N/A

Small stand of red pine with a lot of variability in stocking, age classes and diameters. The far north end is comprised of numerous large diameter, old red pine. A 20" DBH red pine was cored at 109 years old. The west end of the stand is densely stocked with smaller diameter red pine (poletimber/small sawlog). The middle part of the stand is not as well stocked and has some advanced regeneration present. The east end of the stand looks like it may have been thinned at one time and most trees are in the larger sawlog size classes. Trace of red maple (pole) and red oak (log/pole). Average ba/acre from 4 plots = 142 square feet. There are no planting records for this stand and it does mostly appear natural except for the dense pocket along the west edge which looks planted. Thin when adjacent stands are ready for a treatment.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	12	Pole/Log	8		Balsam Fir	Trace	Variable	Sapling
Red Pine	88	Log/Pole/XLog	12	61	Red Maple	Trace	Variable	Sapling
					White Pine	Low	Variable	Sapling

104 429 - Mixed Upland Conifers Sawtimber Well 13.7 95 111-140 N/A

Nice mixed species stand bordering the Dog Lake Marsh. The east half of the stand is more of an R9 while the west half is a mix of oak, pine, and maple. A variety of size and age classes are present in the stand (likely uneven-aged) including some legacy white and red pine. The southern edge of the stand grades down to lowland and has some wetland shrubs along the edge. Trace of cedar along this edge as well. Average ba/acre from 7 plots = 126 square feet. The High Country Pathway traverses the entire length of this stand. Do not manage this stand, let it progress naturally.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	43	Log/XLog/Pole	14	95	Red Maple	Trace	>20 feet	Sapling
Balsam Fir	7	Pole	6		Black Spruce	Trace	Variable	Sapling
Black Spruce	2	Pole	6		White Pine	Medium	Variable	Sapling
Red Maple	11	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
Red Oak	18	Log/XLog	16					
Bigtooth Aspen	4	Pole/Log	8					
White Pine	15	Log/Pole/XLog	13					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
105	4310 - Pine, Oak Mix	Sawtimber Medium	14.8	95	1-50	N/A	Oak/pine stand that had an aspen/red maple/jack pine species removal harvest in 1999 in the sale Osmun Lake Overlook (#53-005-96, Mattson Logging). As a result of that harvest, residual BAs vary considerably, tending to be lower in the south half of the stand. Oak dominates the overstory more in the north half whereas pine becomes more common in the south half. Most of the overstory pine is smaller and younger than the oak (9" red pine measured at 55 years old) although there are some scattered larger diameter red pine that appear to be older. Regeneration following the removal harvest has been mostly white pine and red maple, although there are a few small patches of decent red pine regen. Average ba/acre from 8 plots = 65 square feet. The entire stand sits on a south facing slope except for the northern end which is atop a plateau. Let the pine continue to grow and consider a more aggressive regeneration harvest in the future, such as a seed-tree or shelterwood treatment.																																														
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106	4310 - Pine, Oak Mix	Sawtimber Well	26.1	70	51-80	N/A	Nearly even split between older oak and younger red pine. Some, but not all, of the red pine are overtopped by the oak. Stunted red pine saplings, as old as the overstory red pine, are common in some areas. The red pine appears planted in spots but there are no planting records for this area. Stocking tends to be highly variable due to an aspen/red maple species removal harvest in 1999. However, there are still some pockets of aspen present in the north half of the stand. Trace of red maple (pole) and jack pine (pole). Average ba/acre from 9 plots = 80 square feet. Gently rolling terrain. Heavy elk use at this time.																																														
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107	500 - Water	Nonstocked	2.6	0	Unspecified	No	This stand is currently flooded due to a beaver dam.																																														
108	42110 - Planted Red Pine	Poletimber Well	1.5	68	201+	N/A	Small red pine plantation that has not been thinned before. Mostly poletimber but still some stunted saplings mixed in and a few larger sawlog trees along the edges. Trace of paper birch (pole) and black spruce (pole) in the overstory. Average ba/acre from 2 plots = 220 square feet. Stand sits on a slight south facing slope, getting a little steep at the south end.																																														
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109	42110 - Planted Red Pine	Sawtimber Well	3.9	73	141-170	N/A	Small stand of red pine that looks planted, although there are no planting records for this area. A second age class of older, XL-sized red pine is present in the stand but not common. The only record for a past harvest is a species removal from 1998 that was cut along with adjacent stands 46 and 110. Trace of red maple (pole) and red oak (log) in the overstory. Average ba/acre from 4 plots = 145 square feet.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
110	4134 - Aspen, Spruce/Fir	Sapling Well	6.0	26	Immature	N/A	Mixed species stand, although dominated by aspen, that sits on a series of gradual upland ridges and lowland swales. Clearcut in 1998 in the sale Lewis Adair Aspen (#53-020-96, Georgia Pacific). The south half of the stand is mostly aspen and upland, except for a wet swale running east-west through the middle. The north half is more lowland with a larger swale running east-west, with upland to the north and south of the swale. A more diverse mix of species is present in the north half, including a lot of conifers.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		4	Sapling/Pole	3		Red Pine		
Red Pine		8	Sapling/Pole	3		Balsam Fir		
Black Spruce		9	Sapling	3		Black Spruce		
Quaking Aspen		16	Sapling	3		Tag Alder		
Balsam Fir		18	Sapling	3		White Pine		
Paper Birch		1	Sapling	3				
Jack Pine		1	Sapling/Pole	4				
White Pine		3	Sapling/Pole	3				
Bigtooth Aspen		40	Sapling/Pole	3	26			
111	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	4.9	82	1-50	N/A		Poorly-stocked lowland stand with a thick understory of lowland shrubs. The only area of good stocking and quality is at the far northern end where there is some drier ground and some nice cedar and spruce. Trace of hemlock. Average ba/acre from 5 plots = 74 square feet but this average was skewed higher by a plot in the well-stocked portion of the stand at the north end. Most parts of the stand have BAs under 50 square feet. Very wet ground with standing water in places. Did not visit the middle part of the stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		23	Pole	7		Balsam Fir		
Balsam Fir		25	Pole	6		Black Spruce		
White Pine		1	Log	17		Tag Alder		
Tamarack		2	Pole/Log	8		Michigan Holly		
Northern White Cedar		35	Pole/Log	8	82	Red Maple		
112	42290 - Natural Mixed Pine	Sawtimber Well	2.2	73	111-140	N/A	Small stand of mixed pine that had a species removal harvest at the same time adjacent stand 110 was cut. Average ba/acre from 3 plots = 113 square feet.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		43	Log/XLog	14		Red Pine		
White Pine		57	Log/Pole/XLog	13	73	Balsam Fir		
						Black Spruce		
						Bigtooth Aspen		
						White Pine		
113	4311 - Pine, Aspen Mix	Poletimber Well	5.1	57	111-140	N/A	Different character in this stand as compared to the UM stand directly to the south (#69). Whereas that stand is mostly younger aspen and older pine, this stand is a mix of young and old pine. Clumps of younger red pine can be found throughout, often overtopped by aspen. A second age class of much larger, relict red pine is scattered throughout as well. The oak component is large diameter and good quality. The white pine understory becomes abundant in the south half, with much of it recruiting into the overstory. Trace of red oak poletimber and log-size white pine. Average ba/acre from 7 plots = 113 square feet.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		26	Log/Pole	11	57	White Pine		
White Pine		13	Pole	7		Red Pine		
Jack Pine		4	Pole	8		Red Maple		
Red Maple		6	Pole	8				
Red Oak		9	Log/XLog	15	93			
Red Pine		42	Log/Pole/XLog	11	57			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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114 42210 - Natural Red Pine Sawtimber Well 9.1 95 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	79	Log/XLog/Pole	15	95
Northern White Cedar	3	Pole/Log	9	
Red Maple	1	Pole	6	
Red Oak	4	Log	15	
White Pine	11	Log/XLog/Pole	14	
Balsam Fir	2	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Trace	>20 feet	Sapling
White Pine	Low	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Red Maple	High	Variable	Sapling
Witch Hazel	Low	10 - 20 feet	Tall Shrub
Beech	Low	5 - 10 feet	Sapling
Red Oak	Medium	10 - 20 feet	Sapling

High quality natural pine stand. All red maple, aspen, fir, and other hardwoods were cut out of this stand in 2000 in the sale Pond Trail Aspine (#53-018-97, Hydrolake). Some pine were marked to cut as well. Regeneration has come back well to deciduous species, particularly oak and red maple. Oak regen seems to be more common in the northern half of the stand. There may be some seasonally wet ground in the middle of the stand as there are a few residual cedar here and there. Difficult to tell at this time with the snow on the ground. Some white pine legacy trees are present. Trace of paper birch (pole) in the overstory. Average ba/acre from 6 plots = 125 square feet.

115 42210 - Natural Red Pine Sawtimber Well 34.5 73 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	13	Log/Pole/XLog	12	
Red Maple	3	Pole	6	
Paper Birch	1	Pole	7	
Red Pine	81	Log/Pole/XLog	12	73
Red Oak	2	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Trace	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
White Pine	Medium	Variable	Sapling
Beech	Low	Variable	Sapling
Bigtooth Aspen	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling

Nice red pine stand with 2 age classes present in the overstory. The 72 year old class is dominant but there is an older age class (19" red pine, 116 years old) of large trees commonly occurring throughout as well (most are 15"+ DBH). This stand had an aspen/red maple species removal harvest in 2000 with stand 11 to the south (Pond Trail Aspine, #53-018-97, Hydrolake), but there was obviously not as many of those species in this stand as BAs are higher and relatively consistent as compared to stand 11, with the exception of some localized areas of lower BAs. There are a couple of enormous white pine near the northeast side of the stand (30"+ DBH). Trace of balsam fir and bigtooth aspen poletimber. Average ba/acre from 14 plots = 148 square feet. Terrain is flat to gently rolling. The ground transitions to lowland along the west edge and there are some areas of lowland pine that were excluded from the removal harvest in 2000. One stick nest was found in a 20" red pine near the southeast corner.

116 4199 - Other Mixed Upland Deciduous Poletimber Well 6.5 73 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	5	Pole/Log	8	
Red Maple	43	Pole/Log	8	73
Sugar Maple	10	Pole	6	
Paper Birch	6	Log/Pole	11	
White Spruce	3	Pole/Log	8	
Quaking Aspen	15	Log/Pole/XLog	13	
Red Pine	5	Log/XLog	15	
Red Oak	1	XLog/Log/Pole	18	
Balsam Poplar	3	Pole	8	
White Pine	2	Log/Pole	12	
Balsam Fir	7	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Ironwood	Trace	Variable	Sapling
Beech	Trace	Variable	Sapling
Leatherwood	Low	< 5 feet	Tall Shrub

Moderate to poor quality mixed species stand. Diameters tend to be larger in the northern half, there is also a lot of blowdown in this area. Terrain slopes down gradually to the east and is mostly upland but the ground does transition to lowland in the east and northeast parts of the stand. The far southern end is also wet, being part of a small drainage that continues east and west into adjacent stands. Weed Creek flows west to east just outside of the northern edge of the stand. Average ba/acre from 4 plots = 100 square feet. No management needed at this time, wait until adjacent stand 5 is ready for a thinning and treat at the same time.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
117	6239 - Mixed Emergent Wetland	Nonstocked	9.7	0	Unspecified	No	Two separate beaver floodings in this stand. The north flooding appears slightly older with young willow and alder growing along the edges, and cattails in the wetter areas. The south half has a lot of dead balsam with large amounts of sedge at the ground level. In between the two floodings are some small scattered patches of swamp conifers.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Balsam Fir	Medium	Variable	Sapling	
								Black Spruce	Trace	Variable	Sapling	
								Sedges	High	Unspecified	Non-Wood	
								White Pine	Trace	Variable	Sapling	
								Cattail spp.	Low	Unspecified	Non-Wood	
								Tag Alder	Low	5 - 10 feet	Tall Shrub	
								Northern White Cedar	Trace	>20 feet	Pole	
								Willow spp.	Low	5 - 10 feet	Tall Shrub	
Balsam Fir	Medium	>20 feet	Pole									
118	6124 - Lowland Spruce-Fir	Sapling Poor	5.1	35	1-50	N/A	Only looked at this stand from the road edge so canopy percentages are a rough estimate. Very wet stand with Lewis Branch Adair Creek flowing through the middle. Lots of dead timber with only a few cedar still hanging on. West of the road is barely forested. East of the road is a mix of conifers and there are a few actual cedar saplings growing near the road.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern White Cedar	10	Pole/Log/Sap	8	
								Paper Birch	3	Sapling/Pole	4	
								Red Maple	7	Sapling/Pole	3	
								Quaking Aspen	10	Sapling/Pole	3	
								Balsam Fir	40	Sapling/Pole	3	35
								Black Spruce	20	Sapling/Pole	3	
								Balsam Poplar	10	Sapling/Pole	3	
								Sub-Canopy Species	Density	Avg. Height	Size	
Tag Alder	Medium	5 - 10 feet	Tall Shrub									
119	4199 - Other Mixed Upland Deciduous	Sawtimber Well	4.0	95	81-110	N/A	High quality oak with some large diameter trees mixed in (20"+ DBH). Aspen is scattered throughout the west half of the stand. It looks like this stand had a partial harvest when adjacent stand 68 was last cut. Trace of XL-sized white pine. Average ba/acre from 4 plots = 100 square feet.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	5	Pole	5	57
								White Pine	5	Pole/Log	8	
								Balsam Fir	1	Pole	5	
								Red Oak	57	Log/XLog/Pole	15	95
								Red Pine	8	Log/XLog	14	
								Bigtooth Aspen	24	Log/Pole	12	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Low	>20 feet	Sapling	
Red Maple	Medium	>20 feet	Sapling									
White Pine	Medium	Variable	Sapling									
Balsam Fir	Low	Variable	Sapling									
120	500 - Water	Nonstocked	6.8		Unspecified	No	Lost Lake, not sure if it is always inundated with water or just seasonally.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Mixed Grasses	Full		Non-Wood	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																		
121	4133 - Aspen, Mixed Pine	Poletimber Well	6.8	70	81-110	N/A	Moderate quality aspen stand with a high component of natural pine and oak. 2 ages of aspen are present in the stand as a partial aspen/red maple species removal harvest took place in this stand in the 1970's. Some of the larger, older aspen are poor quality with good wildlife tree qualities (rot, cavities). Red oak is more common at the south end of the stand. Larger diameter, older red pine can be found along the road edge. Trace of paper birch (pole) and white spruce (pole/sap). Average ba/acre from 6 plots = 102 square feet. Most of the stand sits on a slight east facing slope.																																																																		
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122	320 - Upland Shrub	Nonstocked	1.8	0	Unspecified	No	Formally belonged to Stand 86. This non-forested area appears to of been heavily browsed. I don't know what (tree) species were present in this exact location prior to '13 harvest. Currently holds a high/full layer of Black/Red Raspberry and invasive honeysuckle. A few BF, WP and IW sapling present near perimeter.																																																																		
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123	4311 - Pine, Aspen Mix	Poletimber Well	6.4	41	111-140	N/A	Two-aged stand of younger aspen with a supercanopy of older red pine. Cut in 1983 while under private ownership. There actually appears to be two age classes of red pine in the overstory, but the larger diameter, older trees are more numerous. Some red oak did regenerate following the harvest and has recruited into the overstory. Average ba/acre from 5 plots = 138 square feet. The aspen may be ready for a harvest next entry. Maintain or increase the natural pine component.																																																																		
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124	4130 - Aspen	Poletimber Well	4.5	55	111-140	N/A	Moderate quality aspen stand, diameters tend to be smaller in the north half. Terrain slopes gradually down to the east and is mostly upland except for a small drainage at the north end and roughly an acre of seasonally wet ground at the south end. Trace of basswood (pole), balsam poplar (pole), and white spruce (pole). Average ba/acre from 4 plots = 118 square feet. Manage together with stands 5 and 116 when they are ready for a treatment.																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
125	42210 - Natural Red Pine	Sawtimber Well	12.4	70	141-170	N/A	Moderate quality red pine stand that is more densely stocked than nearby red pine stands of similar age. Possibly a planted stand but planting records do not exist for this area and furrows are not present. Although rare, there are trace amounts of much older, relict red pine in the stand, many of which have fire scars. The far north end in particular has more of these older trees (white pine as well). Trace of jack pine (pole/log). Average ba/acre from 6 plots = 167 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		19	Pole/Log	8		Red Pine		Low	>20 feet	Sapling
White Pine		3	Pole/Log	8		Balsam Fir		Trace	Variable	Sapling
Red Maple		3	Pole	6		White Pine		Low	Variable	Sapling
Red Oak		9	Log/Pole	12	95					
Red Pine		66	Log/Pole	11	70					