



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53026

Entry Year 2025

Acreage: 1,743

County Cheboygan

Management Area: Presque Isle Lake and Till Plains

Stand Examiner: Jake Halabut

Legal Description:

T33N R01E Sections 13, 14 and 15

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:

Flat to gently rolling terrain. Predominantly sandy soil types throughout the compartment of varying names and associations, except in the lowland swamp types.

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

Predominantly solid state ownership with a few private inholdings.

Unique Natural Features:

A representative from Michigan's Natural Features Inventory should be on hand at the compartment review with further details of any unique natural features.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

A portion of the Black River flows through the compartment.

Wildlife Habitat Considerations:

Treatments in this compartment are designed to increase the amount of regenerating oak, maintain the aspen type and maintain early successional habitat in the forest. Opening maintenance on abandoned well pads will help remove exotic invasive plants and restore these areas to native grass or upland brush. All of these treatments will maintain the suitability of the area for deer, grouse and other game species

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. Glacial drift thickness varies between 100 and 200 feet. Beneath the glacial drift is the Devonian Traverse Group that is quarried for stone and cement products elsewhere in the State. The nearest gravel pit is located one mile to the north and potential is considered good. This area is partly leased for oil and gas development in the Niagaran reef trend. The Antrim Shale is not present in this area and there is no potential. There is additional potential for the Niagaran reef trend in this compartment.

Vehicle Access:

There is good access to most, if not all, of the compartment. Most of the 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 and MCCC motorcycle trail runs through the east half of the compartment.

Fire Protection:

Access is good in case of any fire suppression efforts, though the area is generally at low risk to any wildfire potential.

Additional Compartment Information:

The following reports from the Inventory are attached:

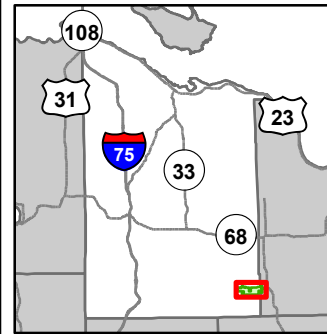
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

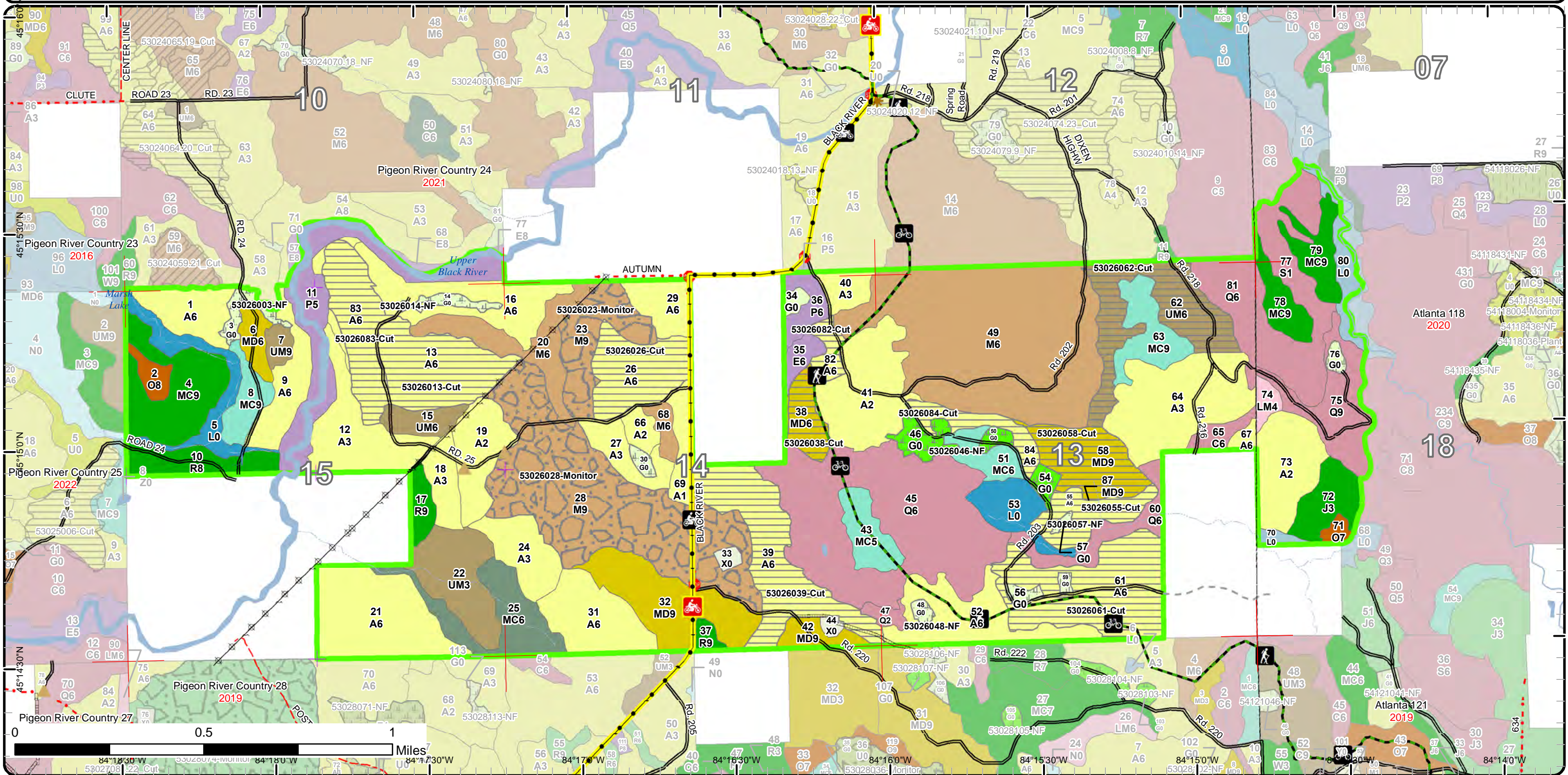
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 26
 T33N, R01E, Sec. 10, 13-15
 T33N, R02E, Sec. 07, 18
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Presque Isle Lake and Till Plains
 YOE: 2025
 Acres: 1743 GIS Calculated
 Examiner: Jake Halabut
 Map Revised: 6/14/2023
 Map Phase: Review

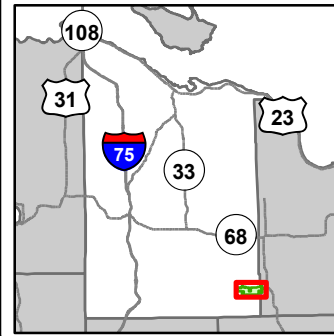


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Bike Trails
- Ski Trails
- Motorcycle Trails (SOS License)
- MCCCT Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Multi-Use Trails
- ORV License
- Michigan Cross Country Cycle Trail (MCCCT)
- Berms
- Culvert
- Sign
- Trailhead
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 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
- 211 - Cropland
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- 790 - Other Bare/Sparsely Vegetated

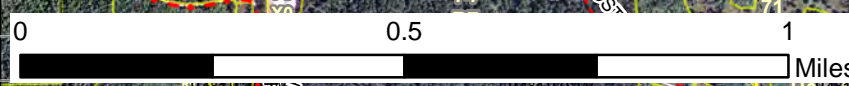
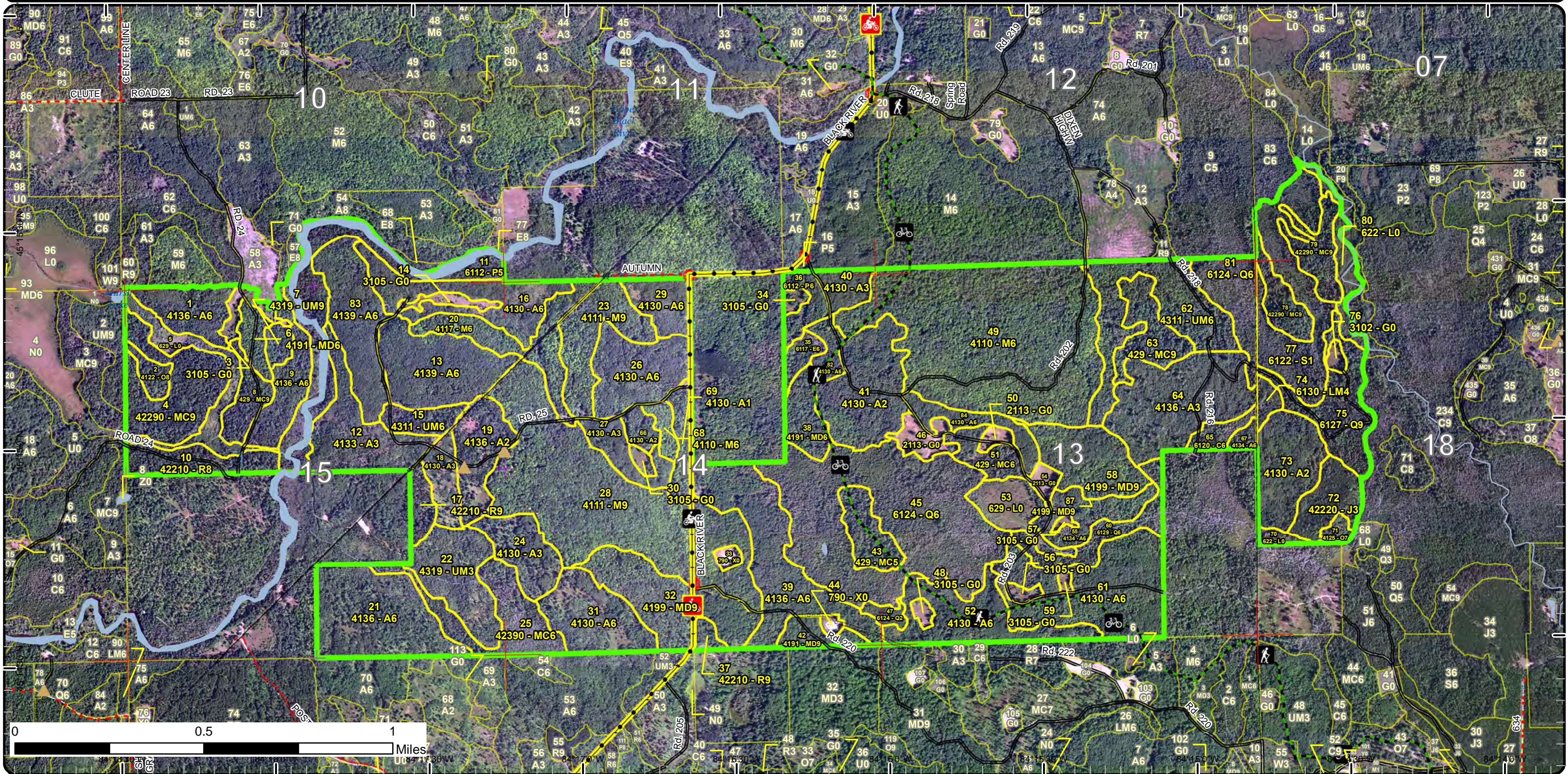


Stand Boundary Map

Compartment: 26
 T33N, R01E, Sec: 10, 13-15
 T33N, R02E, Sec: 07, 18
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Presque Isle Lake and Till Plains
 YOE: 2025
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 Examiner: Jake Halabut
 Map Revised: 6/14/2023
 Map Phase: Review



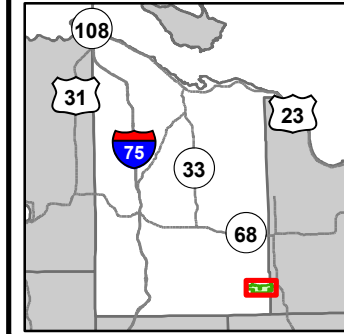
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Bike Trails
- Ski Trails
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- Lake/Pond
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- Powerline
- Compartment Boundary
- Stand Boundaries
- 613 - Lowland Mixed Forest
- 211 - Cropland
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- 612 - Lowland Coniferous Forest



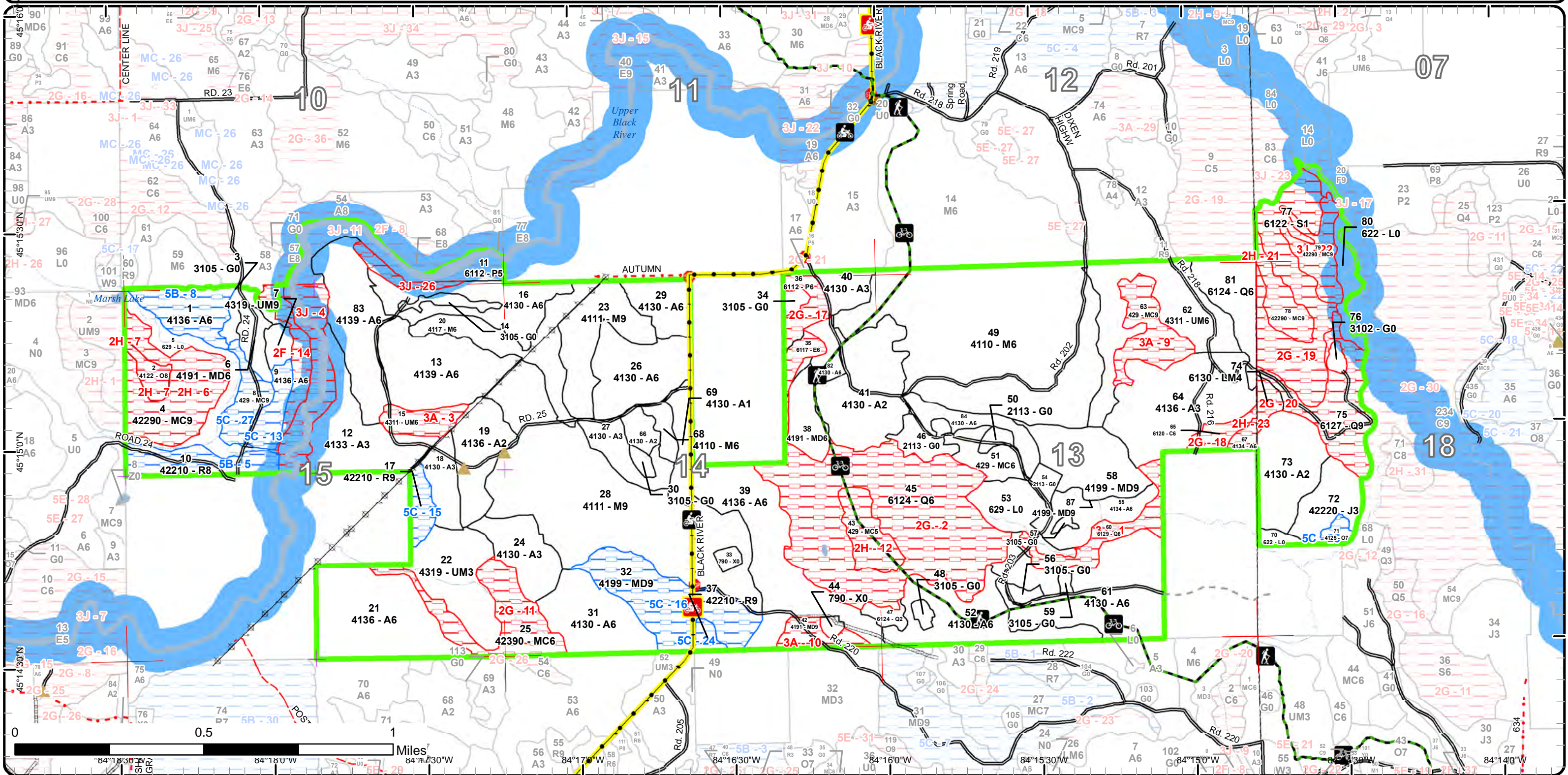
Special Conservation Areas

Compartment: 26
 T33N, R01E, Sec: 10, 13-15
 T33N, R02E, Sec: 07, 18
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Presque Isle Lake and Till Plains
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Acres: 1743 GIS Calculated
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- Miris Corners
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- Trailhead
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



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	55	11	82	262	235	26	0	0	3	0	0	0	0	0	0	0	0	673
Bare/Sparsely Vegetated	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Cedar	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Cropland	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Jack Pine	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	9	0	0	45	0	0	0	0	0	0	0	0	54
Lowland Conifers	0	0	0	4	0	0	0	0	19	0	129	28	0	0	0	0	0	0	180
Lowland Deciduous	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Lowland Mixed Forest	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Shrub	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Lowland Spruce/Fir	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	44
Mixed Upland Deciduous	0	0	0	0	0	0	8	13	0	0	74	0	0	0	0	0	0	0	95
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	14	0	35	0	0	11	0	0	0	60
Northern Hardwood	0	0	0	0	0	0	0	0	0	26	141	151	0	0	0	0	0	0	317
Oak	0	0	0	0	0	0	0	0	0	6	3	0	0	0	0	0	0	0	9
Red Pine	0	0	0	0	0	0	0	0	0	7	20	0	0	0	0	0	0	0	27
Upland Conifers	0	0	0	0	0	0	11	0	14	0	0	39	0	0	0	18	0	0	82
Upland Mixed Forest	0	0	0	0	30	0	41	0	0	14	0	0	0	0	0	0	0	0	85
Total	88	55	11	86	308	279	99	13	33	121	373	253	0	0	11	18	0	0	1746



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 318
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	238	0	0	0	0	0	0	0	0	238
Mixed Upland Deciduous	39	0	0	0	0	0	0	0	0	39
Upland Mixed Forest	41	0	0	0	0	0	0	0	0	41
Total	319	0	0	0	0	0	0	0	0	319

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	319	0	0	0	0	146	0	29	0	493
Next Step	0	0	0	0	0	319	0	0	0	319
Total	319	0	0	0	0	464	0	29	0	812



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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:

3	53026003-NF	5.5	3105 - Mixed Upland Herbaceous	Nonstocked	Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No	
<p><u>Prescription</u> General opening maintenance which may include tilling, mowing, brush cutting, Rx fire, and herbicide.</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 /2024</p>											
13	53026013-Cut	37.6	4139 - Aspen, Mixed Deciduous	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut all species.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - Utilize LTM to retain 10 BA or less of mature sugar maple for seed trees - Stack tops on sugar maple stumps to assist with regen - Insert 1-2 retention islands: utilize in the north edge of this stand along steep slopes, and to retain dense pockets of sugar maple. - Add drumming log spec - No chipping <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking of a mix of aspen, hardwoods, and mixed coniferous will be acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Alter treatment at reflect harvestable terrain along the northern edge due to steep slope/erosion concerns.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
14	53026014-NF	4.0	3105 - Mixed Upland Herbaceous	Nonstocked		NonForestMgt	Other - Specify	310 - Herbaceous Openland		No	
<p><u>Prescription</u> General opening maintenance which may include tilling, mowing, brush cutting, Rx fire, and herbicide.</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 /2024</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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23	53026023-Monitor	26.7	4111 - S.Maple, Hard Mast Association	Sawtimber Well	101	81-110	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Monitor

Specs:

Next Step

Treatments:

Acceptable Moderate stocking of any mixture of hardwoods, aspen, and conifer species will be acceptable.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

26	53026026-Cut	29.6	4130 - Aspen	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut all species.

- Specs:
- Utilize LTM in areas where mature sugar maple seed trees may be present, less than 10 BA
 - On cut sugar maple stumps, stack tops on them to assist regen.
 - No chipping
 - Drumming log spec
 - Add spec to protect MCCT signage

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable A moderate stocking of aspen, hardwoods, and mixed conifer will be acceptable.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

28	53026028-Monitor	118.8	4111 - S.Maple, Hard Mast Association	Sawtimber Well	102	51-80	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Intermediate follow up treatment that wasn't created in the initial treatment process from previous inventory cycle.

Specs:

Next Step

Treatments:

Acceptable Moderate stocking of any mixture of hardwoods, aspen, or pine species.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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30	53026030-NF	2.2	3105 - Mixed Upland Herbaceous	Nonstocked	Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription General opening maintenance which may include tilling, mowing, brush cutting, brush pile creation, Rx fire, tree planting, crop planting, brush pile creation, tree removal, and herbicide.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

38	53026038-Cut	12.0	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	67	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Clearcut all species except for cedar or hemlock. -Utilize LTM to mark a clump around cedar or hemlock found; To protect from equipment and from being released on more than two sides.
Specs:
 - Consider utilizing a retention island along the east edge of the stand where a wet pocket exists.
 - Utilize trail protection specs for the high country pathway that runs along the edge of this stand.
 - Add grouse tree spec for leaving whole tree

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Moderate stocking consisting of aspen, hardwoods, and mixed conifer will be considered acceptable regen.
Regen:

Other Try to push as far west to the private as soil, BMP concerns allow, including up into S35.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

39	53026039-Cut	49.7	4136 - Aspen, Mixed Conifer	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Clearcut, utilize retention where low spots or drains exist, particularly along the swamp edge. -Also, utilize LTM to retain any mature red pine or wolfy oak in this stand, particularly in the south, but no more than 10 BA.
Specs:
 - Also, mark to leave drumming logs or add the spec
 - Add spec to protect MCCT signage

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Any moderate regeneration mix of aspen, hardwoods, and spruce or fir, will be allowed.
Regen:

Other If possible while taking into concern erosion/soil concerns, attempt to push the CC into the adjacent lowland stand 45.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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46 53026046-NF 8.2 2113 - Forage Crops Nonstocked Unspec ified NonForestMgt Other - Specify 310 - Herbaceous Openland No

Prescription Specs: General opening maintenance which may include tilling, mowing, brush cutting, brush pile creation, Rx fire, tree planting, crop planting, brush pile creation, tree removal, and herbicide.

Next Step Treatments:

Acceptable Regen:

Other Comment: Opening was previously planted to rye.

Site Condition

Proposed Start Date: 10/1 /2024

48 53026048-NF 2.1 3105 - Mixed Upland Herbaceous Nonstocked NonForestMgt Other - Specify 320 - Upland Shrub No

Prescription Specs: General opening maintenance which may include tilling, mowing, brush cutting, brush pile creation, Rx fire, tree planting, crop planting, brush pile creation, tree removal, and herbicide.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

50 53026050-NF 2.6 2113 - Forage Crops Nonstocked NonForestMgt Other - Specify 310 - Herbaceous Openland No

Prescription Specs: General opening maintenance which may include tilling, mowing, brush cutting, brush pile creation, Rx fire, tree planting, crop planting, brush pile creation, tree removal, and herbicide.

Next Step Treatments:

Acceptable Regen:

Other Comment: Opening was previously planted to rye.

Site Condition

Proposed Start Date: 10/1 /2024



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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54	53026054-NF	3.5	2113 - Forage Crops	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription General opening maintenance which may include tilling, mowing, brush cutting, Rx fire, and herbicide.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Opening was previously planted to rye.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

55	53026055-Cut	17.2	4134 - Aspen, Spruce/Fir	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Clearcut with retention, utilize retention as necessary to mitigate any soil/erosion concerns along the southern swamp edge. Including the ephemeral stream that drains into this stand from S58. Retention to follow BMP guidelines.

Specs:

- Utilize LTM as necessary for any mature pine, oak, or spruce seed trees to assist in regeneration.
- Residual should not exceed 10 BA
- Add drumming log spec

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any moderate or better stocking of aspen, hardwoods, pine and spruce/fir will be acceptable.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

56	53026056-NF	2.2	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Other - Specify	320 - Upland Shrub	No
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Prescription General opening maintenance which may include tilling, mowing, brush cutting, brush pile creation, Rx fire, tree planting, crop planting, brush pile creation, tree removal, and herbicide.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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57	53026057-NF	1.1	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Other - Specify	320 - Upland Shrub	No
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Prescription General opening maintenance which may include tilling, mowing, brush cutting, brush pile creation, Rx fire, tree planting, crop planting, brush pile creation, tree removal, and herbicide.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

58	53026058-Cut	27.1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	97	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Two-Aged	No
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Prescription Clearcut with retention.
Specs:
- Utilize retention to protect an ephemeral stream/drain that exists in the SE portion of this stand, that flows down into S55. Retention to follow BMP guidelines.
-Also retain 1-2 islands of mature oak.
- Utilize LTM to mark groups of 3-5 oak trees
- LTM any mature pine that may assist regeneration.
- Residual LTM should not exceed 15 BA
-Add drumming log spec

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Any moderate or better stocking of aspen, hardwoods, pine and spruce/fir will be acceptable.
Regen:

Other No chipping, utilize tops to stack on top of oak stumps to assist with stump sprouting regen.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

59	53026059-NF	1.1	3105 - Mixed Upland Herbaceous	Nonstocked		Immature	NonForestMgt	Other - Specify	320 - Upland Shrub	No
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Prescription General opening maintenance which may include tilling, mowing, brush cutting, brush pile creation, Rx fire, tree planting, crop planting, brush pile creation, tree removal, and herbicide.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
61 53026061-Cut	55.0	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention, utilize retention along the north edge of the stand as necessary to protect any vernal ponds, or erosion/soil concerns.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> -Among denser pockets of oak, insert one to two retention island(s). - In other dense pockets of oak, LTM should be utilized to mark groups 2-3 oak trees. - LTM any mature seed trees of pine or spruce to assist in regeneration. - Residual should not exceed 15 BA - Also include drumming log spec. - Add trail protection spec for High Country Pathway <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any moderate regeneration mix of aspen, other hardwoods, pine, and spruce or fir will be acceptable.</p> <p><u>Other Comment:</u> Add spec to have tops stacked on oak stumps to assist with stump sprouting regeneration.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
62 53026062-Cut	41.2	4311 - Pine, Aspen Mix	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Utilize retention to 1-2 pockets of mature pine that exists within the stand.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - LTM to retain any other mature pine as seed trees, focusing on red pine. - Residual should not exceed 10 BA - Add drumming log spec <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any moderate or better stocking of aspen, hardwoods, pine and spruce/fir will be acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
76 53026076-NF	2.1	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> General opening maintenance which may include tilling, mowing, brush cutting, brush pile creation, Rx fire, tree planting, crop planting, brush pile creation, tree removal, and herbicide.</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 /2024</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
82 53026082-Cut	6.7	4130 - Aspen	Poletimber Well	55	111-140	Harvest	Clearcut	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut all species. <u>Specs:</u> -Note the high country pathway that runs through the stand, use trail protection specs. -Retain any nice spruce seed trees if applicable, do not exceed 10 BA. - Drumming log spec</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any moderate regeneration mix of aspen, hardwoods, and spruce or fir, will be acceptable. <u>Other Comment:</u></p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2024</p>										
83 53026083-Cut	30.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Clearcut, all species designated. <u>Specs:</u> - LTM mature pine, spruce, or oak as seed trees to assist with regeneration without exceeding 10 BA. - Utilize retention to protect any vernal ponds or sensitive soils within the treatment area. - Add whole tree, grouse tree spec</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate to full stocking of a mixture of aspen, hardwoods, or mixed conifer will be acceptable. <u>Other Comment:</u></p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2024</p>										
84 53026084-Cut	11.7	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut all species. <u>Specs:</u> - Utilize LTM to retain mature pine or oak species to assist regeneration. -When LTM oak, try to select in groups of 2-3 trees if possible to reduce release shock - Keep residual below 15 BA. - Add drumming log spec</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any moderate or better stocking of aspen, hardwoods, pine and spruce/fir will be acceptable. <u>Other Comment:</u> - Extend clearcut into adjacent S49 to expand aspen if possible.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2024</p>										

Total Treatment Acreage Proposed: 498.6

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5B	5C	2F	2G	2H	3A	3J
673	628	27	17	Aspen	18	9	9	0	3		5
4	4	0	0	Bare/Sparsely Vegetated							
6	0	0	6	Cedar				6			
14	14	0	0	Cropland							
23	23	0	0	Herbaceous Openland							
16	16	0	0	Jack Pine							
54	0	0	54	Lowland Aspen/Balsam Poplar				9			45
178	23	0	155	Lowland Conifers				141			15
6	1	0	5	Lowland Deciduous				5			
4	0	0	4	Lowland Mixed Forest				4			
47	47	0	0	Lowland Shrub				0	0		
44	0	0	44	Lowland Spruce/Fir				44			
95	47	39	9	Mixed Upland Deciduous		39		1		8	
61	0	0	61	Natural Mixed Pines					46		14
317	317	0	0	Northern Hardwood							
8	0	3	5	Oak		3			5		
27	0	27	0	Red Pine	17	10					
82	11	11	60	Upland Conifers		11		28	14	18	
84	75	0	9	Upland Mixed Forest						9	
1,743	1,207	108	428	Total Forested Acres	35	73	9	236	69	35	79
	69%	6%	25%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Jake Halabut : Examiner

Compartment: 26

Year of Entry: 2025

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	113	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3A: Conservation Values incompatible with harvest at this time	9	5C: Delay treatment for age/size class diversity or exceptional site quality	3L: Other wildlife concerns	Unspecified	Unspecified
Comments: Older age class mix of aspen and pine surrounded by younger aspen age classes.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
 Jake Halabut : Examiner

Compartment: 26
 Year of Entry: 2025

8	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3A: Conservation Values incompatible with harvest at this time	18	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3A: Conservation Values incompatible with harvest at this time	8	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Jake Halabut : Examiner

Compartment: 26

Year of Entry: 2025

13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment to align with adjacent stands for harvest.							
14	Unavailable	2F: Too steep	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Jake Halabut : Examiner

Compartment: 26

Year of Entry: 2025

19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Krugh inventoried and I've (JSP) placed a 'Too wet' S.C. on this borderline, is it a forested or lowland non-forested covertype stand. Either way it's very wet with limited (if ever) merchantability.							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Seasonally inundated/sensitive soils, lowland indicator species, water table appears close to surface.							
21	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Worth verifying if this stand meets Type 1 Old Growth requirements. "A forested area 3 acres or more in size that has never been logged and that display old-growth characteristics".							
22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Jake Halabut : Examiner

Compartment: 26

Year of Entry: 2025

24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wait to harvest when S32 is ready for harvest.							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small acreage stand, wait to see if regen develops and re-access once S72 is ready for harvest.							
26	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Black River SCA influence							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment to align with treatment of nearby stands.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	4136 - Aspen, Mixed Conifer	Poletimber Well	18.0	36	51-80	N/A	<p>Stand is progressing nicely. Not quite ready for harvest but close. Reassess next inventory cycle. South edge along creek has been impacted by beaver activity. Most of the aspen has been removed within several feet of the creek bottom. There is a small cedar stand (1 ac.) included in this stand along the creek bottom.</p> <p>there is also a minor red oak presence in this stand.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		25	Pole/Sap/Log	6	36	Red Pine		Low	10 - 20 feet	Sapling	
Red Pine		2	Pole/Sap/Log	6		Black Cherry		Medium	Variable	Sapling	
Red Maple		8	Pole/Sapling	5	37	Red Maple		Medium	10 - 20 feet	Sapling	
Quaking Aspen		30	Pole/Sap/Log	6	36	Paper Birch		Low	5 - 10 feet	Sapling	
Balsam Fir		17	Pole/Sapling	6	36	Balsam Fir		High	Variable	Sapling	
White Pine		5	Pole/Sap/Log	6	36	White Pine		Medium	Variable	Sapling	
Balsam Poplar		8	Sapling/Pole	4		Ironwood		Low	10 - 20 feet	Sapling	
Paper Birch		5	Sapling/Pole	4	36						

2	4122 - Oak, Pine	Sawtimber Medium	5.5	82	51-80	N/A	<p>Mature Oak and Pine that had the aspen and hardwood removed in 1987. Part of a larger pine stand that is surrounded by a marsh and two small creeks.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		60	Log	12	83	Red Maple		Medium	10 - 20 feet	Sapling	
Red Pine		20	Log	14	83	Bigtooth Aspen		Medium	10 - 20 feet	Sapling	
White Pine		20	Log/Pole	13		White Pine		Low	5 - 10 feet	Sapling	
						Balsam Fir		Low	10 - 20 feet	Sapling	

3	3105 - Mixed Upland Herbaceous	Nonstocked	5.5		Immature	No	<p></p>
Sub-Canopy Species		Density	Avg. Height	Size			
Pin Cherry		Low		Sapling			
Bracken Fern		Medium		Non-Wood			
Sedges		Low		Non-Wood			
Blackberry/Raspberry		Medium		Tall Shrub			
Mixed Grasses		High		Non-Wood			

4	42290 - Natural Mixed Pine	Sawtimber Well	35.0	109	81-110	N/A	<p>Nice natural pine stand surrounded by a marsh and 2 creeks with a fairly wide floodplain making it naturally conducive to a biodiversity area or SCA.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		30	Log/Pole/XLog	13	110	Red Maple		Low	10 - 20 feet	Sapling	
Red Pine		45	Log/XLog	15	110	Balsam Fir		Medium	10 - 20 feet	Sapling	
Red Maple		8	Pole	8		White Pine		High	10 - 20 feet	Sapling	
Balsam Fir		10	Pole	8		Northern White Cedar		Low	>20 feet	Pole	
Red Oak		5	Log	12							
Paper Birch		2	Log	12							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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5	629 - Mixed non-forested wetland	Nonstocked	18.4			No	Two creeks coming out of Marsh 16 and flowing into the Black River. Periodic beaver activity up and down the system controls the mix of wetland species that exist within this stand.				
								Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	Low	< 5 feet	Sapling
								Alder	Medium		Tall Shrub
								Mixed Grasses	Medium		Non-Wood
								Willow spp.	Medium		Tall Shrub
								Balsam Fir	Low	< 5 feet	Sapling
White Spruce	Trace	>20 feet	Pole								

6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	7.7	54	51-80	N/A	Smaller, poor quality hardwood with white pine
	Paper Birch	25	Pole/Log	8	54		
	Basswood	20	Pole	8	54		
	Red Maple	20	Pole/Log	8	54		
	White Pine	20	Log/Pole/XLog	12			
	Red Pine	5	Log	15			
	Quaking Aspen	5	Pole	9			
	Sugar Maple	5	Pole/Log	8			

7	4319 - Mixed Upland Forest	Sawtimber Well	4.5	84	81-110	N/A	Pocket of White Pine with mixed hardwood. Pine form is not real good quality, with many, multiple stemmed trees present.
	Paper Birch	12	Pole	8			
	Quaking Aspen	13	Pole	7			
	Red Maple	25	Pole	8			
	White Pine	50	Log	16	84		

8	429 - Mixed Upland Conifers	Sawtimber Well	11.2	100	81-110	N/A	Mature Red and White Pine overhead with a good mix of Cedar and Hemlock through parts of the stand but not uniform. Most of the stand is along hillside along creek bottom with the creek flowing through the southern part of the stand and into the Black River. Some aspen exists within this stand, so may be opportunity to regenerate aspen. Hold off until S1 is ready (likely next inventory cycle) and harvest multiple stands in the area for aspen expansion.
	Red Maple	15	Pole	8			
	Paper Birch	5	Pole	8			
	Quaking Aspen	15	Pole	8			
	Hemlock	5	Pole/Log	9			
	Balsam Fir	10	Pole	9			
	Northern White Cedar	10	Pole	9			
	Red Pine	20	Log	16	100		
	White Pine	20	Log/XLog	16	100		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
9	4136 - Aspen, Mixed Conifer	Poletimber Well	18.8	54	51-80	N/A	Mixed aspen, conifer and oak components within this stand. Half of the stand falls within the Black River SCA zone of influence, as well as steep slopes that border the river valley. Aspen size varies, but should wait one entry period and treat with adjacent stands.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir	15	Pole/Sapling	7	54	Red Maple	Medium		>20 feet	Sapling	
White Pine	5	Log	14		Ironwood	Low		Variable	Sapling	
Quaking Aspen	30	Pole/Sap/Log	8	54	White Pine	Low		5 - 10 feet	Sapling	
Paper Birch	10	Pole	7		Balsam Fir	High		Variable	Sapling	
Sugar Maple	2	Sapling/Pole	4		Red Pine	Medium		10 - 20 feet	Sapling	
Red Oak	3	Log/XLog	15							
Red Pine	5	Log	15							
Red Maple	10	Pole/Sapling	6	54						
Bigtooth Aspen	20	Pole/Log	8							
10	42210 - Natural Red Pine	Sawtimber Medium	17.2	99	51-80	N/A		Mature pine along creek bottom. Part of stand looks previously harvested throughout center of the stand and south of road. Bookended by thicker pockets of mixed pine with heavier understory of balsam. Trace birch can be found within this stand, as well as spruce along the creek bottom. Looks like a partial overstory removal and hardwood thinning likely took place from what's remaining in these residual pockets. Records indicate this stand was sold/cut in 1985 (Schommer Road PIne) utilizing CTM and species removal for aspen, spruce, and fir.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	20	Log	14	100	Red Maple	Low	>20 feet		Sapling	
Red Pine	67	Log	15	100	Balsam Fir	Low	10 - 20 feet		Sapling	
Balsam Fir	5	Pole	6		Bigtooth Aspen	Medium	5 - 10 feet		Sapling	
Bigtooth Aspen	3	Pole	7		White Pine	Medium	Variable		Sapling	
Red Maple	5	Pole/Log	8		Beech	Low	Variable		Sapling	
					Red Pine	Medium	< 5 feet		Sapling	
					Northern White Cedar	Trace	>20 feet		Pole	
					Red Maple	Low	< 5 feet		Seeding	
11	6112 - Lowland Aspen	Poletimber Medium	45.2	88	51-80	N/A	Steep banks leading to the river, as well as, the river bottom are both within the river influence zone for BMP consideration.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height
Balsam Poplar	20	Pole	10	88	Red Maple	Low		5 - 10 feet	Sapling	
White Pine	10	Log/Pole	12		White Pine	Low		10 - 20 feet	Sapling	
Red Pine	5	Log/Pole	12		Balsam Fir	Medium		10 - 20 feet	Sapling	
Paper Birch	5	Pole	8							
Red Maple	15	Pole	8							
Balsam Fir	10	Pole	8							
Quaking Aspen	35	Log/Pole	12	88						
12	4133 - Aspen, Mixed Pine	Sapling Well	31.5	33	1-50	N/A		This stand has been impacted in the past by browsing, but it seems to have recovered nicely for the most part.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	5	Sapling	3		Balsam Fir	Medium	10 - 20 feet		Sapling	
Jack Pine	5	Sapling	3		White Pine	Low	10 - 20 feet		Sapling	
Balsam Fir	10	Sapling	4							
Quaking Aspen	70	Sapling/Pole	4	33						
White Pine	10	Sapling	4							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13	4139 - Aspen, Mixed Deciduous	Poletimber Well	37.6	49	81-110	N/A	Aspen is looking good, age and density meets criteria for harvest. Previous Ash component is apparent but most has already died off due to EAB. Some hardwood advanced regen is present in the understory. -8 plots for an average BA of ~95 sq ft per acre			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		42	Pole/Log	7	49	Red Maple		Low	10 - 20 feet	Sapling
Balsam Fir		5	Pole	8		Balsam Fir		Low	10 - 20 feet	Sapling
Sugar Maple		18	Pole	7		Ironwood		Medium	Variable	Sapling
Red Maple		15	Pole	7		Beech		Low	5 - 10 feet	Sapling
Quaking Aspen		5	Pole	7	49	Sugar Maple		Low	>20 feet	Sapling
Paper Birch		15	Pole/Sapling	6		White Pine		Low	Variable	Sapling

14	3105 - Mixed Upland Herbaceous	Nonstocked	4.0			No	
Sub-Canopy Species		Density	Avg. Height	Size			
Bracken Fern		Medium		Non-Wood			
Mixed Grasses		Full		Non-Wood			
White Pine		Low	10 - 20 feet	Sapling			
Black Cherry		Low	10 - 20 feet	Sapling			
Blackberry/Raspberry		Medium		Tall Shrub			

15	4311 - Pine, Aspen Mix	Poletimber Well	9.0	82	81-110	N/A	Old comments recommended this stand to convert to pine to add diversity to the compartment. Aspen is not in good condition and is surrounded by different age classes of aspen.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Pole	9		Red Maple		Low	10 - 20 feet	Sapling
White Pine		10	Log/Pole	12	82	White Pine		Low	10 - 20 feet	Sapling
Red Pine		25	Log	12	82	Balsam Fir		Medium	10 - 20 feet	Sapling
Balsam Fir		10	Pole	8						
Jack Pine		5	Pole	9						
Quaking Aspen		40	Log/Pole	12	82					

16	4130 - Aspen	Poletimber Well	32.1	33	1-50	N/A	aspen stand is looking fairly good. still not near ready for harvest, likely one to two YOE out before consideration. Lacking diameter on stems, reassess next yoe.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		80	Pole/Sapling	5	33	Gray Dogwood		Medium	5 - 10 feet	Tall Shrub
Paper Birch		5	Sapling/Pole	4		Black Cherry		Medium	5 - 10 feet	Sapling
Red Maple		10	Pole/Sapling	5		Balsam Fir		Medium	5 - 10 feet	Sapling
White Pine		5	Pole/Sapling	6		American Fly Honeysuckle		Medium	5 - 10 feet	Tall Shrub
						Serviceberry (Juneberry)		Trace	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
17	42210 - Natural Red Pine	Sawtimber Well	7.2	87	81-110	N/A	Stand was thinned in 1996. Some nice looking red pine in this stand, and appears to be a good site with the appearance of good regen coming in along the boundary/dispersed through adjacent S18. Not sure this stand is quite ready for harvest, as the stand is fairly variable in terms of BA with an average of 105 sq ft. Not much regen or understory present in the north half of the stand, though it gets pretty thick with balsam fir, white spruce, and red maple as you move south. Some nice red pine pole recruitment exists.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Pole/Log	9		Red Pine	Low		5 - 10 feet	Sapling
Quaking Aspen	5	Log/Pole	12		Beech	Low		5 - 10 feet	Sapling
Balsam Fir	5	Pole	9		Red Maple	Low		10 - 20 feet	Sapling
Red Oak	10	Log	12		Balsam Fir	Medium		Variable	Sapling
White Pine	5	Log	14	87	Balsam Fir	Medium		>20 feet	Pole
Red Pine	70	Log	15	87	Red Pine	Low		>20 feet	Pole
					White Pine	Medium		Variable	Sapling
18	4130 - Aspen	Sapling Well	11.4	17	Immature	N/A		Previous clear-cut with oak retention. Aspen is doing alright, and there is some nice red pine and white pine regen present. retained oak seems to be doing well and limited of not no mortality. A few aspen attend are just gaining merchantability but are mostly still submerch.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Maple	10	Sapling	3	17	White Pine	Low	Variable		Sapling
Paper Birch	10	Sapling	3	17	Balsam Fir	Low	< 5 feet		Sapling
Quaking Aspen	65	Sapling	3	17	Red Pine	Low	Variable		Sapling
Balsam Fir	5	Sapling	3	17	Red Maple	Low	< 5 feet		Sapling
Red Oak	10	Log/XLog	16		Quaking Aspen	Low	< 5 feet		Sapling
19	4136 - Aspen, Mixed Conifer	Sapling Medium	21.8	33	51-80	N/A	Much of the stand is just reaching merchantability. highly variable both in terms of species distribution and size. Some borderline saw sized Timber exists, as the stand seems to be doing fairly well. In the opening located to the SE of the stand, autumn olive clumps can be found as well as witch hazel.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	10	Sapling	4	33	Autumn Olive	Trace		5 - 10 feet	Tall Shrub
Red Pine	5	Sapling	4	33	Black Cherry	Low		10 - 20 feet	Sapling
Paper Birch	5	Sapling	4	33	Paper Birch	Low		10 - 20 feet	Sapling
White Pine	10	Sapling	2	33	Beech	Low		< 5 feet	Sapling
Red Maple	10	Sapling	4		Balsam Fir	Medium		Variable	Sapling
Bigtooth Aspen	60	Sapling/Pole	4	33	Red Oak	Trace		10 - 20 feet	Sapling
					Red Pine	Low		5 - 10 feet	Sapling
					Witch Hazel	Trace		5 - 10 feet	Tall Shrub
					White Pine	Medium		Variable	Sapling
					White Spruce	Trace		Variable	Sapling
20	4117 - Mixed N. Hardwood - Pine	Poletimber Well	25.7	85	51-80	N/A	Steep valleys and hillsides. Difficult to work and erosion hazard, plus the wood quality is not very good as most stems seem to be open grown.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Pole	8		Balsam Fir	Low		10 - 20 feet	Sapling
Basswood	25	Log/Pole	10	85	White Pine	Low		10 - 20 feet	Sapling
White Ash	5	Pole	8		Ironwood	Low		10 - 20 feet	Sapling
Beech	10	Pole	8		Red Maple	Low		10 - 20 feet	Sapling
White Pine	20	Log/Pole	10	85	Beech	Low		5 - 10 feet	Sapling
Balsam Fir	5	Pole	8						
Sugar Maple	20	Pole	8	85					
Ironwood	10	Pole/Sapling	6						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
21	4136 - Aspen, Mixed Conifer	Poletimber Well	46.7	33	1-50	N/A	10-20 sq ft of Oak and Red Pine residual. Poor quality quaking Aspen stand, lacking in size and density. Supplemented by the presence of Oak, red pine and balsam fir (near the adjacent lowlands). White pine and black cherry are filling in fairly well.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		7	Pole/Sap/Log	5		Balsam Fir		
Red Maple		8	Sapling	3	33	Low		
Balsam Fir		8	Pole/Sapling	5		5 - 10 feet		
Red Oak		10	Log	14		Sapling		
Quaking Aspen		60	Pole/Sapling	5	33	Red Maple		
						Low		
						5 - 10 feet		
22	4319 - Mixed Upland Forest	Sapling Well	29.7	33	51-80	N/A	Highly diverse stand with a high water table that could potentially be subdivided into a few separate stands. Some portions of the stand have more standing water than the others. The presence of this high water table is apparent through the use of imagery, as you can still see remnants of the previous harvest, the skid trails where some rutting occurred has resulted in no significant regeneration. There is a pocket of balsam poplar found in the NW portion of the stand. A swath of slightly lower, wetter ground is dominated by balsam fir throughout large portions of the middle of this stand. The southern portion of this stand has some of the nicer aspen located in this stand, which coincides with some of the highest, driest ground found in this stand, though water is still found present along the edges along with tag alder.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		10	Pole	7		White Spruce		
White Pine		5	Sapling/Pole	4		Low		
Red Maple		10	Pole/Sapling	5		Variable		
White Spruce		2	Sapling/Pole	4		Sapling		
Balsam Poplar		10	Pole/Sapling	5	33	Medium		
Quaking Aspen		35	Pole/Sapling	5	33	10 - 20 feet		
Paper Birch		3	Pole/Sapling	5		Sapling		
Balsam Fir		25	Sapling/Pole	4	33	Low		
						5 - 10 feet		
						Sapling		
23	4111 - S.Maple, Hard Mast Association	Sawtimber Well	26.7	101	81-110	N/A	Fairly nice quality hardwood hasn't had any work in it. Stand cut in 2018 by AJD Forestry as part of Broken Arrow Hardwoods: 53-011-015. Some regen in the understory; mostly ash and ironwood, as well as basswood stump sprouting that is being impacted by browse. Some large, woly aspen seem to have been left as wildlife trees. BA is approximately 80 sq ft.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		39	Pole/Log	9	101	Basswood		
Basswood		38	Log	12	102	Low		
Beech		5	Log/Pole	10		< 5 feet		
Red Oak		10	Log	14		Sapling		
Bigtooth Aspen		3	Log/XLog	16		Bigtooth Aspen		
Paper Birch		5	Log	10	102	Low		
						< 5 feet		
						Sapling		
24	4130 - Aspen	Sapling Well	18.9	26	51-80	N/A	Appears to be an old clear-cut where an oak and red pine overstory was retained: ~10-20sq ft. Aspen is coming back fairly well in some pockets, but not as well to the west side of the stand where slightly higher oak retention. Here, white and red pine, as well as balsam fir and surprisingly some hemlock are filling in nicely. Along the east line of the stand, ironwood and beech are coming in pretty thick where aspen isn't growing. Browse in the area seems to be high, which is further verified by the presence of an old fenced enclosure in the NE corner of this stand. Fence is gone but assume it was installed after this cut.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		5	Log	14	90	Red Maple		
Red Maple		10	Sapling	3	26	Low		
Paper Birch		5	Sapling	3	26	5 - 10 feet		
Bigtooth Aspen		65	Sapling	3	26	Sapling		
Balsam Fir		5	Sapling	4	26	Beech		
Red Oak		10	Log/Pole/XLog	14	90	Medium		
						< 5 feet		
						Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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25 42390 - Mixed Non-Pine Upland Conifers Poletimber Well 27.5 102 111-140 N/A Good cover, small deeryard. Creek flows through the west arm.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Log	12		Black Ash	Low	5 - 10 feet	Sapling
Northern White Cedar	50	Log	10	102	Balsam Fir	Medium	10 - 20 feet	Sapling
Black Ash	5	Pole	8					
White Spruce	5	Log	12					
Red Maple	5	Pole	8					
Quaking Aspen	5	Pole	9					
Balsam Fir	20	Pole	8	102				

26 4130 - Aspen Poletimber Well 29.6 48 81-110 N/A Good aspen stand with a significant component of young Sugar Maple. Possibly put off Aspen management to allow Sugar Maple to take over. It will require allowing the Aspen to die out or allow the stand to mature and selectively cut some Aspen while managing Sugar Maple. The Eastern portions of this stand consist of saw size aspen with significant advanced regen of ash, maple, and ironwood. Sugar maple density increases westward within the stand, a fair amount of these pole sized stems are from stump sprouting. East side of the stand appears to be slightly lower, wetter, which is apparent through imagery and pit-mound topography found on site.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2	Pole	8		Sugar Maple	Medium	>20 feet	Sapling
Paper Birch	5	Pole	6		White Ash	Low	>20 feet	Sapling
Quaking Aspen	10	Pole/Log	8	48	Ironwood	High	>20 feet	Sapling
Bigtooth Aspen	64	Pole/Log	9	48	Paper Birch	Low	>20 feet	Sapling
Sugar Maple	19	Pole/Log	7	48	Balsam Fir	Low	Variable	Sapling

27 4130 - Aspen Sapling Well 12.6 24 Immature N/A Aspen is looking pretty good, but still a ways off from being ready to harvest. There is also some trace (residual?) oak found in this stand, especially along the forest road.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling/Pole	4		Sugar Maple	Low	5 - 10 feet	Sapling
Balsam Fir	5	Sapling	2	24	Balsam Fir	Low	< 5 feet	Sapling
Paper Birch	5	Sapling/Pole	4		Ironwood	Medium	5 - 10 feet	Sapling
Sugar Maple	5	Sapling	3	24	Black Cherry	Low	5 - 10 feet	Sapling
White Ash	5	Sapling	2	24				
Quaking Aspen	75	Sapling	3	24				

28 4111 - S.Maple, Hard Mast Association Sawtimber Well 118.8 102 51-80 N/A Stand was selectively cut in the fall of 2018 as part of the Broken Arrow Hardwood sale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	40	Log/Pole	11	102	Ironwood	Medium	10 - 20 feet	Sapling
Beech	10	Log/Pole	10		Bigtooth Aspen	Medium	< 5 feet	Sapling
Paper Birch	2	Log	12		Beech	Medium	Variable	Sapling
Red Oak	10	Log	16		White Ash	Low	10 - 20 feet	Sapling
Bigtooth Aspen	3	Log	14	102	White Spruce	Trace	< 5 feet	Sapling
Sugar Maple	35	Pole/Log	9	102				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
29	4130 - Aspen	Poletimber Well	13.5	33	51-80	N/A	Stand is looking good but still likely one to two YOE out from being ready for treatment. If stand 26 does not get cut this YOE, consider harvesting with it later on.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Ash		10	Sapling	3	33	Balsam Fir		Low	5 - 10 feet	Sapling
Sugar Maple		15	Sapling/Pole	4	33	Ironwood		High	>20 feet	Sapling
Paper Birch		5	Sapling	3	33	Sugar Maple		Medium	10 - 20 feet	Sapling
Quaking Aspen		70	Pole	5	33	White Ash	Medium	10 - 20 feet	Sapling	
30	3105 - Mixed Upland Herbaceous	Nonstocked	2.2		Immature	No	Natural opening. Aspen and quite pine are beginning to encroach and fill in stand.			
Sub-Canopy Species		Density	Avg. Height	Size						
Mixed Grasses		Full		Non-Wood						
Bigtooth Aspen		Low	5 - 10 feet	Sapling						
White Pine		Low	5 - 10 feet	Sapling						
Bracken Fern		Medium		Non-Wood						
31	4130 - Aspen	Poletimber Well	28.7	33	1-50	N/A	Residual Oak from last cut along the east side. Stand is looking fairly well but still lacking in diameter. Re-evaluate next inventory cycle but may not be ready be then either.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		5	Log	14		Red Maple		Low	10 - 20 feet	Sapling
Quaking Aspen		70	Pole/Sapling	5	33	Balsam Fir		Medium	Variable	Sapling
White Pine		5	Sapling	3	33	White Pine		Medium	Variable	Sapling
Balsam Fir		10	Sapling	3	33	Black Cherry		Medium	5 - 10 feet	Sapling
Red Maple		10	Sapling	3	33					
32	4199 - Other Mixed Upland Deciduous	Sawtimber Well	39.0	95	51-80	N/A	This stand was selectively cut in 2009-10. Regeneration holes were made, but not finding satisfactory regen. in those holes. Leatherwood, white pine, and ironwood seem to be the predominate regen species found in the understory. Though there is some moderate recruitment of red maple and sugar maple poles.-12 plots recorded for an average of 78 sq ft per acre.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		10	Log/Pole	11		Leatherwood		Medium	< 5 feet	Tall Shrub
Beech		5	Pole	9		Sugar Maple		Low	>20 feet	Pole
Basswood		25	Log	12	95	White Ash		Low	< 5 feet	Sapling
Red Oak		40	Log	14	95	Beech		Low	< 5 feet	Sapling
Sugar Maple		20	Pole/Log	9	95	Bigtooth Aspen		Low	< 5 feet	Sapling
						Ironwood		Medium	Variable	Sapling
						Red Maple		Low	>20 feet	Pole
						White Pine		Low	5 - 10 feet	Sapling
33	790 - Other Bare/Sparsely Vegetated	Nonstocked	2.1					Active oil well site.		
34	3105 - Mixed Upland Herbaceous	Nonstocked	2.4			Managed Opening	Opening, possibly and old homestead site. Couple of Apple trees in opening.			
Sub-Canopy Species		Density	Avg. Height	Size						
Apple (spp.)		Trace	10 - 20 feet	Sapling						
Blackberry/Raspberry		Medium		Tall Shrub						
Mixed Grasses		Full		Non-Wood						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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35 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 5.6 81 1-50 N/A Drainage area of wet hardwood.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	8		Balsam Fir	Low	10 - 20 feet	Sapling
Northern White Cedar	10	Pole	7		Black Ash	Low	5 - 10 feet	Sapling
Black Ash	35	Pole/Sapling	7	81				
Red Maple	10	Pole	8					
Paper Birch	15	Pole	8					
Balsam Poplar	20	Pole	8	81				

36 6112 - Lowland Aspen Poletimber Well 8.8 55 51-80 N/A Lowland aspen with wet soils, would not recommend treatment of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	40	Pole	8	55	Balsam Poplar	Low	5 - 10 feet	Sapling
Balsam Poplar	10	Pole	8		Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir	20	Pole	8					
Paper Birch	20	Pole	8	55				
Red Maple	10	Pole	8					

37 42210 - Natural Red Pine Sawtimber Well 3.1 97 111-140 N/A Mature stand of pine along road and bordering private property.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	3	Log/Pole	10		Red Maple	Medium	>20 feet	Sapling
Red Maple	10	Pole	9		Balsam Fir	Low	10 - 20 feet	Sapling
White Pine	15	XLog/Log	18	97	White Pine	Low	10 - 20 feet	Sapling
Red Pine	65	Log/XLog	15	97				
Quaking Aspen	7	Log	14					

38 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 12.8 67 51-80 N/A Transition stand into lowland cedar. Stand boundary may fluctuate after adjacent aspen stand is treated. Ground becomes very wet along the west side along private. This stand was partially, previously harvested and then dropped. Log sized aspen present in the stand with a good amount of balsam fir and red maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	2	Pole	8		Balsam Fir	Medium	10 - 20 feet	Sapling
Sugar Maple	5	Pole/Log	9		Red Maple	Low	10 - 20 feet	Sapling
White Pine	5	Pole	8					
Paper Birch	11	Log/Pole	10	67				
Balsam Fir	25	Pole	8					
Red Maple	30	Pole/Log	8	67				
Quaking Aspen	17	Log/XLog	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
39	4136 - Aspen, Mixed Conifer	Poletimber Well	49.7	46	81-110	N/A	Nice young pole stand with good Oak component along swamp edge. Aspen is looking good and meets the age and BA requirements for harvest. There is a drain that runs E/W in the northern part of the stand. Utilize retention to protect this and any other vernal pools or sensitive soils present in the stand.																																																					
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41	4130 - Aspen	Sapling Medium	38.4	7	Immature	N/A	Stand cut in the fall of 2016 by Randy Nash in the sale The Crock Aspen (53-018-15-01). Not all of PU #1 was cut and Nash dropped the sale. Regen From what was cut is looking good, 10-20' tall regen. Some areas are spottier than others in terms of density but doing well.																																																					
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42	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	8.0	97	81-110	N/A	Relatively small stand split by "Shell" road which is used to access several active oil well sites, as well as, several dry holes that are no longer in production. Most of the Red Pine is in the east end and kind of acts as a screen blocking the active oil well site from the road. Appears as though this stand was previously cut, leaving thr oak and red pine as residual. Lots of stump sprouted red maple stems, as well as balsam fir and white pine comprise the under/midstory. Thick screen of balsam fir, and red and white pine saplings border the oil well site.																																																					
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43	429 - Mixed Upland Conifers	Poletimber Medium	14.0	72	51-80	N/A	Island surrounded by Cedar swamp with hiking trail going through the middle of it, the full length of the stand. Timber value is quite low.																																																					
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44	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.8				Active oil well site.																																																					
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45	6124 - Lowland Spruce-Fir	Poletimber Well	112.9	91	171-200	N/A	Nice cedar stand, but trees are on the small side, barely averaging 8". Plenty of winter deer activity. Good deer yarding area. High Country Pathway, with boardwalks, goes north and south thru the stand.																																														
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46	2113 - Forage Crops	Nonstocked	8.2		Unspecified	Managed Opening	Managed opening planted in 2012 with rye.																																														
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47	6124 - Lowland Spruce-Fir	Sapling Medium	3.5	27	Immature	N/A	Old cedar cut along the edge of the swamp. This stand was cut in 1996.																																														
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48	3105 - Mixed Upland Herbaceous	Nonstocked	2.1				Old oil pad that was plugged in 2003. Balsam Poplar is beginning to slowly populate the stand, moreso than anything else.																																														
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49	4110 - Sugar Maple Association	Poletimber Well	141.0	95	81-110	N/A	Decent hardwood, but highly variable stocking throughout. High Country Pathway goes north and south through this stand. Pockets of mostly pole and sapling exist in areas north of the access road that runs east/west through the stand. Also, varying densities of paper birch pockets persist throughout as well. 17 plots using 10 BAF prism estimated BA to be 97 Sq Ft.																																														
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50	2113 - Forage Crops	Nonstocked	2.6			Managed Opening	Opening that was planted to rye.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
51	429 - Mixed Upland Conifers	Poletimber Well	10.8	50	81-110	N/A	Small pocket of poor quality pine between marsh and wildlife opening. Also paper birch is a small component of this stand but appears to be dying off.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		5	Log	12		White Pine		
Red Maple		5	Pole	7		Red Maple		
Quaking Aspen		20	Pole/Log	8		Tag Alder		
Black Cherry		3	Pole/Sapling	6		Balsam Fir		
Jack Pine		25	Pole	8	50			
Balsam Fir		10	Pole	6				
White Spruce		2	Pole	7				
White Pine		30	Pole/Log	9	50			
52	4130 - Aspen	Poletimber Well	33.1	31	1-50	N/A	stand still has quite a few sapling stems in it but aspen is finally reaching merchantability in some areas. Wet areas/drains appear in the northern parts of this stand, and one can be found bisecting the stand between East/West in the middle. Tag alder is prevalent in these areas but appear to have been harvested over previously. Rutting issues are not apparent but could exist under the snow cover. Residual, log sized Red pine can be found throughout the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		2	Sapling/Pole	3		White Pine		
Quaking Aspen		25	Pole/Sapling	5	31	Red Pine		
Balsam Poplar		5	Sapling/Pole	4		Tag Alder		
White Pine		3	Sapling	3		Paper Birch		
Balsam Fir		10	Sapling	3		Tamarack		
Bigtooth Aspen		45	Pole/Sapling	5	31	Balsam Fir		
Red Pine		2	Log/Pole/Sap	14		Black Spruce		
Paper Birch		8	Sapling	3	31			
53	629 - Mixed non-forested wetland	Nonstocked	15.7		Immature	No	Wet marsh that drains the swamp with a small creek flowing east into the Canada Creek.	
Sub-Canopy Species		Density	Avg. Height	Size				
Mixed Grasses		Medium		Non-Wood				
Alder		Medium		Tall Shrub				
Willow spp.		Medium		Tall Shrub				
Sedges		Medium		Non-Wood				
54	2113 - Forage Crops	Nonstocked	3.5			Managed Opening	Old oil pad, plugged in 1980, that is now a managed wildlife opening planted to rye.	
Sub-Canopy Species		Density	Avg. Height	Size				
Sedges		High	Unspecified	Non-Wood				
Mixed Sedges/Grasses		Full	Unspecified	Non-Wood				
Red Pine		Low	>20 feet	Log				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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55	4134 - Aspen, Spruce/Fir	Poletimber Well	17.2	46	81-110	N/A	Nice pole stand along hillside, that has stretches that blend in with the adjacent M6 and MD9 in areas along the top slope. Some variability in the diameter of the aspen but overall likely ready for harvest.
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Canopy Species	% Cover	Size Class	DBH	Age
White Ash	2	Pole	7	46
Red Oak	5	Log/Pole/XLog	13	
Bigtooth Aspen	10	Pole	8	46
Balsam Fir	36	Pole	7	46
Red Maple	7	Pole	7	46
Quaking Aspen	40	Pole/Log	8	46

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	High	Variable	Sapling
Red Maple	Medium	>20 feet	Pole

56	3105 - Mixed Upland Herbaceous	Nonstocked	2.2			No	Opening, possibly an old oil pad, starting to fill in with Red and White Pine.
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Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Medium		Tall Shrub
White Pine	Medium	10 - 20 feet	Sapling
Red Pine	Medium		Sapling
Mixed Grasses	Full		Non-Wood

57	3105 - Mixed Upland Herbaceous	Nonstocked	1.1			Managed Opening	Small natural opening surrounded by hawthorne
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Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	Sapling
Red Pine	Low	10 - 20 feet	Sapling
Blackberry/Raspberry	Low		Tall Shrub
Black Cherry	Low	10 - 20 feet	Sapling
Red Pine	Trace	>20 feet	Pole
Hawthorn (spp.)	Low		Tall Shrub
Little Bluestem	Low		Non-Wood
Mixed Grasses	Full		Non-Wood
Bracken Fern	Medium		Non-Wood

58	4199 - Other Mixed Upland Deciduous	Sawtimber Well	27.1	97	81-110	N/A	Nice quality Oak.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	3	Log	16	
Paper Birch	12	Pole	8	
Red Maple	10	Pole	8	
Red Oak	45	Log	14	97
Bigtooth Aspen	15	Log/Pole	10	
Basswood	5	Pole/Log	10	
Sugar Maple	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Ironwood	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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59 3105 - Mixed Upland Herbaceous Nonstocked 1.1 Immature No Old oil pad. Saplings of pine and aspen encroaching around edges, white pine in particular is beginning to fill in opening.

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Low		Sapling
White Spruce	Trace	5 - 10 feet	Sapling
Blackberry/Raspberry	Medium		Tall Shrub
Red Oak	Trace	>20 feet	Pole
White Pine	Medium	Variable	Sapling
Red Pine	Trace	>20 feet	Log
Mixed Grasses	Full		Non-Wood
Red Pine	Trace	>20 feet	Pole

60 6129 - Mixed Coniferous Lowland Forest Poletimber Well 15.6 95 111-140 N/A Lowland conifer swamp along creek flowing into Canada Creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Log/Pole	12		Red Maple	Low	10 - 20 feet	Sapling
Northern White Cedar	40	Pole/Log	9	95	White Spruce	Low	Variable	Sapling
Balsam Fir	20	Pole	8		Balsam Fir	High	10 - 20 feet	Sapling
Red Maple	5	Pole	8					
White Pine	25	Log	15	142				

61 4130 - Aspen Poletimber Well 55.0 46 81-110 N/A Size class varies in the aspen. Oak and Pine are residual from the last cut in the mid-70's, predominately along a ridge that runs east to west within the stand. Aspen diameters are still variable throughout the stand but overall, probably worth considering harvesting.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	65	Pole/Sap/Log	7	46	White Pine	Medium	10 - 20 feet	Sapling
Red Pine	5	Log	14		Red Pine	Low	< 5 feet	Sapling
Red Oak	15	Log/Pole/XLog	14	87	Red Oak	Trace	< 5 feet	Sapling
Red Maple	15	Pole/Sap/Log	6	46	White Spruce	Low	Variable	Sapling
					Red Maple	Low	10 - 20 feet	Sapling
					Balsam Fir	Medium	5 - 10 feet	Sapling

62 4311 - Pine, Aspen Mix Poletimber Well 41.2 55 81-110 N/A Highly variable mix of species with pine of mixed age classes. Pockets of nice saw/pole red pine can be found throughout this stand. This stand surrounds S63 which is a pine, hemlock, cedar grove. The larger pine looks possibly to be residual from an earlier cut. Could be ready to cut based on age class as well as basal areas.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	Log/Pole	11		White Pine	Low	10 - 20 feet	Sapling
Red Pine	25	Log/Pole	11	55	Red Maple	Low	5 - 10 feet	Sapling
Red Maple	15	Pole	8	55	Balsam Fir	High	Variable	Sapling
Paper Birch	5	Pole	8	55	Red Pine	Low	10 - 20 feet	Sapling
Quaking Aspen	30	Pole/Log	9	55				
Balsam Fir	10	Pole	8	55				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
63	429 - Mixed Upland Conifers	Sawtimber Well	18.3	142	111-140	N/A	Large mature white pine and red pine with cedar/hemlock underneath with springs and seeps flowing east, much of it underground. Good stand for SCA or otherwise not do any management. Not much ground vegetation due to heavy browse.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		25	Log/Pole	10	95	Balsam Fir		
Hemlock		10	Pole	9	95	Low		
Balsam Fir		5	Log/Pole	12	95	5 - 10 feet		
Quaking Aspen		3	Log	12		Sapling		
Red Maple		2	Log/Pole	11				
White Pine		40	Log/Pole/XLog	17	142			
Red Pine		15	Log	16	142			
64	4136 - Aspen, Mixed Conifer	Sapling Well	50.0	28	1-50	N/A	Nice aspen regeneration with some scattered pine residual from a previous harvest. Aspen is looking pretty good, with both balsam fir and white pine growing in well underneath/along side it.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Sapling	3	28	Red Pine		
Balsam Fir		10	Sapling	4	28	Low		
White Pine		10	Sapling	3		10 - 20 feet		
Quaking Aspen		70	Sapling	3	28	Sapling		
						Balsam Fir		
						High		
						Variable		
						Sapling		
						White Pine		
						Medium		
						10 - 20 feet		
						Sapling		
						Red Maple		
						Low		
						10 - 20 feet		
						Sapling		
65	6120 - Lowland Cedar	Poletimber Well	5.7	92	51-80	N/A	Strip of lowland conifer between clearcut and private property.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		5	Log	12		Balsam Fir		
Northern White Cedar		60	Pole	8	92	Medium		
Balsam Fir		25	Pole	8		10 - 20 feet		
Paper Birch		10	Log	12		Sapling		
66	4130 - Aspen	Sapling Medium	5.5	5	Immature	N/A	Stand was clear cut in the fall of 2018 as part of the Broken Arrow Hardwood sale. Aspen regen is looking fairly good thus far.	
Canopy Species		% Cover	Size Class	DBH	Age			
Bigtooth Aspen		100	Sapling	1	5			
67	4134 - Aspen, Spruce/Fir	Poletimber Well	2.7	82	51-80	N/A	Pocket of aspen along boundary with Atlanta FO, small in size with difficult access. It would make a good retention stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		5	Pole	10		Balsam Fir		
Paper Birch		5	Log/Pole	12		High		
Balsam Fir		30	Pole	10		10 - 20 feet		
Quaking Aspen		60	Log/Pole	12	82	Sapling		
						Red Maple		
						Low		
						10 - 20 feet		
						Sapling		
68	4110 - Sugar Maple Association	Poletimber Well	5.0	102	51-80	N/A	Stand was selectively cut in the fall of 2018.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Basswood		40	Log/Pole	11	102	Beech		
Beech		10	Log/Pole	10		Low		
Sugar Maple		50	Pole/Log	9	102	5 - 10 feet		
						Sapling		
						Ironwood		
						Low		
						10 - 20 feet		
						Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
69	4130 - Aspen	Sapling Poor	10.5	5	Immature	N/A	Stand was clear cut in the fall of 2018 as part of the Broken Arrow Hardwood sale. Regen is looking pretty good although a little variable throughout the stand. Especially in the middle where the stand narrows, it appears as though raspberry is taking over a little bit in these areas.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		100	Sapling	1	5	Blackberry/Raspberry		Low	< 5 feet	Tall Shrub
70	622 - Lowland Shrub	Nonstocked	2.6			No	Very wet flooding area.			
Sub-Canopy Species		Density	Avg. Height	Size						
Red Maple		Low	>20 feet	Pole						
Black Spruce		Low	>20 feet	Pole						
Balsam Poplar		Low	>20 feet	Pole						
Tag Alder		High	5 - 10 feet	Tall Shrub						
71	4125 - Black, N. Pin Oak	Sawtimber Poor	3.0	91	1-50	N/A	On the side of a hill that leads down to lowland. Good white pine understory coming in.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		15	Pole	7		White Pine		Medium	Variable	Sapling
Black/Red (Hybrid) Oak		75	Log	12	91	Balsam Fir		Low	Variable	Sapling
Jack Pine		5	Log	10						
Red Pine		5	Pole	8						
72	42220 - Natural Jack Pine	Sapling Well	16.2	31	1-50	N/A	Good stocking. More aspen on the east edge. Ridge runs along the the east and south sides of these stand, sloping down towards swamp, lowlands. Less jack pine along these slopes and slightly more white pine and aspen. Jack pine regen throughout the stand looks promising but still a couple inventory cycles away from being viable.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Pine		1	Pole	6						
Jack Pine		90	Sapling/Pole	4	31					
White Pine		2	Pole	6						
Black/Red (Hybrid) Oak		1	Sapling	3						
Red Maple		2	Sapling	3						
Balsam Fir		4	Sapling/Pole	4						
73	4130 - Aspen	Sapling Medium	28.0	31	Immature	N/A	Variable stocking in the stand. Some pockets with no regen, white pine and balsam fir are taking advantage of this spotty aspen regen A drain runs north and south along the west side of this stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		78	Sapling/Pole	4	31	Black/Red (Hybrid) Oak		Trace	Variable	Sapling
Balsam Fir		10	Pole/Sapling	5		Jack Pine		Trace	Variable	Sapling
Red Maple		5	Sapling/Pole	4		Pin Cherry		Trace	Variable	Sapling
White Pine		1	Log/XLog	16		Red Pine		Trace	Variable	Sapling
Red Pine		1	Log/XLog	16		Balsam Fir		Medium	Variable	Sapling
White Spruce		5	Pole	6		Tag Alder		Trace	5 - 10 feet	Tall Shrub
						White Pine		Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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74 6130 - Fir, Aspen, Maple Poletimber Poor 4.1 51 1-50 N/A Very wet site with soft ground.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Poplar	20	Pole/Sapling	6		Paper Birch	Low	Variable	Sapling
Northern White Cedar	10	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
Red Maple	25	Pole	6					
Balsam Fir	35	Pole/Sapling	5	51				

75 6127 - Lowland Pine Sawtimber Well 27.6 103 81-110 N/A Paulus '08: INCLUDES NARROW RIDGE ADJACENT TO CANADA CREEK NO CUT! STAND HAS SWAMP CONIFER (TAMARACK, CEDAR, SPRUCE). NATURAL STAND. WET IN SPOTS. SOME JACK PINE.
Krugh '18: Stand is lowland with a ridge/road running through it. The road is in poor condition and should be blocked off. This stand is very close to uneven age.
JSP '18: On very transitional/sensitive ground, water table appears very close to surface. West access, far southern, and northern locales more upland. Access road north of small opening near Stds.44/45 in rough shape, agree w/Krugh to close. The opening just mentioned is prob old landing, now being used as a deer camp. Some impressive fire origin species in this stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	25	Log/XLog	15	108	Red Maple	Medium	Variable	Sapling
White Pine	25	Log/XLog/Pole	17		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	5	Pole/Log	9		Tamarack	Low	Variable	Sapling
White Spruce	5	Log/Pole	10		Labrador Tea	Low	5 - 10 feet	Tall Shrub
Balsam Fir	4	Pole/Sap/Log	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	4	Pole/Log	9		Northern White Cedar	Low	Variable	Sapling
Black Spruce	25	Pole/Log	8	103	Red Pine	Low	Variable	Sapling
Tamarack	5	Pole	9		White Pine	Low	Variable	Sapling
Quaking Aspen	2	Pole/Log	8					

76 3102 - Grass Nonstocked 2.1 Unspecified No JSP '18: Pine species establishing along perimeter locales.

77 6122 - Black Spruce Sapling Poor 43.7 42 1-50 N/A OPIC - FMD: HAS MANY AREAS OF SWAMP CONIFER.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	55	Sapling	4	42	Tag Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	35	Sapling	4					
Tamarack	10	Sapling	4					

78 42290 - Natural Mixed Pine Sawtimber Well 11.3 136 111-140 N/A Krugh '18: 60% plus of the red and white pine meet legacy specs. Do not cut this stand. Age is estimated because increment bore was too short to get actual age.
JSP '18: Not something you'll see too often. Used 'Borer not Long Enough' aging procedure on a 32.3" WP, aged 131 years old. Old growth characteristics (large WP logs on ground, large WP standing dead, and Large Living, etc.). Difficult to tell if ever harvested, potentially Type 1 Old Growth. Evidence of fire throughout.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	7	Log/XLog	15		White Spruce	Low	Variable	Pole
Balsam Fir	3	Pole/Log	9	82	White Pine	Low	Variable	Pole
Quaking Aspen	3	Log/Pole/XLog	15		Balsam Fir	Medium	Variable	Pole
White Spruce	2	Log/Pole	10		Red Pine	Low	Variable	Pole
White Pine	55	XLog	28	136				
Red Pine	30	XLog/Log	22					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
79	42290 - Natural Mixed Pine	Sawtimber Well	14.2	82	81-110	N/A	OPIC - FMD: SWAMP CONIFER MIXED IN WITH WHITE AND RED PINE.NO ACCESS. JSP 5/9/18: Very recent beaver activity in areas. 16" QA still attached but gnawed. 18-20" QA on ground nearby. Fire origin mix of species, scattered legacy pine present.																																																				
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80	622 - Lowland Shrub	Nonstocked	10.4			No	Canada Creek lowland shrub corridor. Portions with scattered lowland conifer and deciduous. OPIC - FMD: HAS MANY AREAS OF SWAMP CONIFER.																																																				
81	6124 - Lowland Spruce-Fir	Poletimber Well	18.8	76	51-80	N/A	Lowland cedar, conifer stand. Along the west end is a strip of larger diameter cedar with limited subcanopy. the majority of the rest of the stand consists of small diameter fir and spruce saplings, with sporadic pulp sized cedar cedar spruce. A few larger diameter white pine can be found near the western edge. Standing water is persistent throughout the stand, no current or future treatments are recommended at this time.																																																				
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82	4130 - Aspen	Poletimber Well	6.7	55	111-140	N/A	Good Aspen ready for final harvest. This stand was previously included in a sale that was dropped.																																																				
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83	4139 - Aspen, Mixed Deciduous	Poletimber Well	33.9	49	81-110	N/A	Good aspen stand, but not quite ready to cut yet. West half is primarily Bigtooth Aspen. Northeast portion is a heavy mix of hardwood.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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84	4130 - Aspen	Poletimber Well	12.2	46	81-110	N/A	Nice pole stand along hillside, that has stretches that blend in with the adjacent M6 and MD9 in areas along the top slope. Some variability in the diameter of the aspen but overall likely ready for harvest.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Ash	2	Pole	7	46	Red Maple	Medium	>20 feet	Pole
Bigtooth Aspen	64	Pole	8	46	Balsam Fir	High	Variable	Sapling
Red Oak	15	Log/Pole/XLog	13		Red Maple	Low	10 - 20 feet	Sapling
Red Maple	7	Pole	7	46				
Balsam Fir	12	Pole	7	46				

87	4199 - Other Mixed Upland Deciduous	Sawtimber Well	0.0	97	81-110	N/A	Nice quality Oak.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	3	Log	16		Red Maple	Low	10 - 20 feet	Sapling
Sugar Maple	10	Pole	8		Ironwood	Low	10 - 20 feet	Sapling
Red Maple	10	Pole	8		White Pine	Low	10 - 20 feet	Sapling
Basswood	5	Pole/Log	10					
Red Oak	45	Log	14	97				
Paper Birch	12	Pole	8					
Bigtooth Aspen	15	Log/Pole	10					