



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54156

Entry Year 2024

Acreage: 1,694

County Presque Isle

Management Area: Hammond Bay Lake Plain

Stand Examiner: Darrick Coy

Legal Description:

T36N R2E Sections 16, 17, and 18

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan. Timber harvests prescribed will increase vigor in red pine through thinning and regenerate aspen and oak through clearcutting. Stands and timber sale specifications have been designed to minimize impacts on Black Mountain recreation.

Soil and topography:

Soils are mostly well drained to excessively drained sands. Dominating soil types are kalkaska, roselawn, graycalm, grayling, moncalm, and rubicon-roselawn sands, as well as rifle, carbondale, and tawas organics. Red pine, red oak, and aspen are the dominant cover type species. Overall, the topography is rolling to hilly. The compartment forest habitat types are mostly PArVHa, PArVHa/PArVVb, and unclassified lowland.

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

State land ownership is solid except for small parcel in section 18 and lake sixteen areas within section 16. State land borders all sides of the compartment with small parcels of private ownership. Land use within the compartment is primarily recreation due to the compartment being part of the Black Mountain Recreation Area.

Unique Natural Features:

Englemann's spike rush and hills thistle. Other undocumented rare and endangered species may be present. Contact Michigan Natural Features Inventory for more information or reporting.

Archeological, Historical, and Cultural Features:

Sites exist. Contact the State Historical Preservation Office for more information or reporting of new sites.

Special Management Designations or Considerations:

Black Mountain Recreation Area. Lake Sixteen (Dead Man's Marsh) Intermittent Wetland ERA and Natural Area.

Watershed and Fisheries Considerations:

Lake Sixteen.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

The State-owned Doriva Beach Road sand/gravel pit is less than one mile west, but it has never been leased since the department switched from permitting to leasing, and the extent of remaining usable material is unknown. There is potential for sand & gravel on the upland moraine deposits in the center of the compartment and possibly the glaciolacustrine sediments in the southwest, which should be broadly comparable to the Doriva Beach Rd Pit material. Carbonate bedrock of the Detroit River Group underlies the glacial drift in the compartment, but only east of Lake Sixteen in the compartment might it be shallow enough to have any economic potential. The Detroit River Group has not been mined in the past in this area and potential seems low. Very limited oil & gas exploration has occurred in this area, and there is no known potential for hydrocarbon production from known producing formations beneath the compartment, but there has been some history of oil & gas leasing in the area. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Access to the compartment is good. Several frequently and infrequently used fire break roads exist. Some access two-tracks will need to be reshaped as logging activities begin and progress. With the high amount of recreational use and timber cutting this YOY, illegal trails created will need to be identified and blocked off as it occurs. No trash was found within the compartment.

View the status of state forest roads open to conventional motorized use within the compartment online using the Michigan DNR interactive roads maps or download printable maps for free.

Survey Needs:

Private ownership located within Section 16.

Recreational Facilities and Opportunities:

Black Mountain Recreation Area: Non-Motorized Pathways open to hiking, bicycling, snowshoeing, cross country skiing, equestrian riding, and wildlife viewing. Snowmobile Trails 99 and 994. Many state forest roads in the compartment are also open to ORV use. The Black Lake State Forest Campground is only a few miles away.

Other significant recreational use of state forest roads exists. View the status of state forest roads open to motorized and non-motorized recreational use within the compartment online using the Michigan DNR interactive roads maps or download printable maps for free.

Fire Protection:

Atlanta DNR office and surrounding VFDs

Additional Compartment Information:

The following reports from the Inventory are attached:

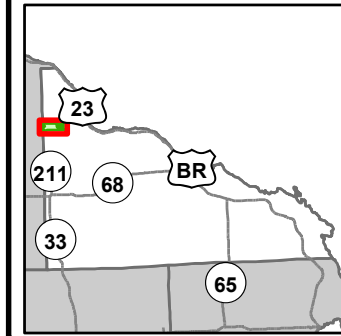
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

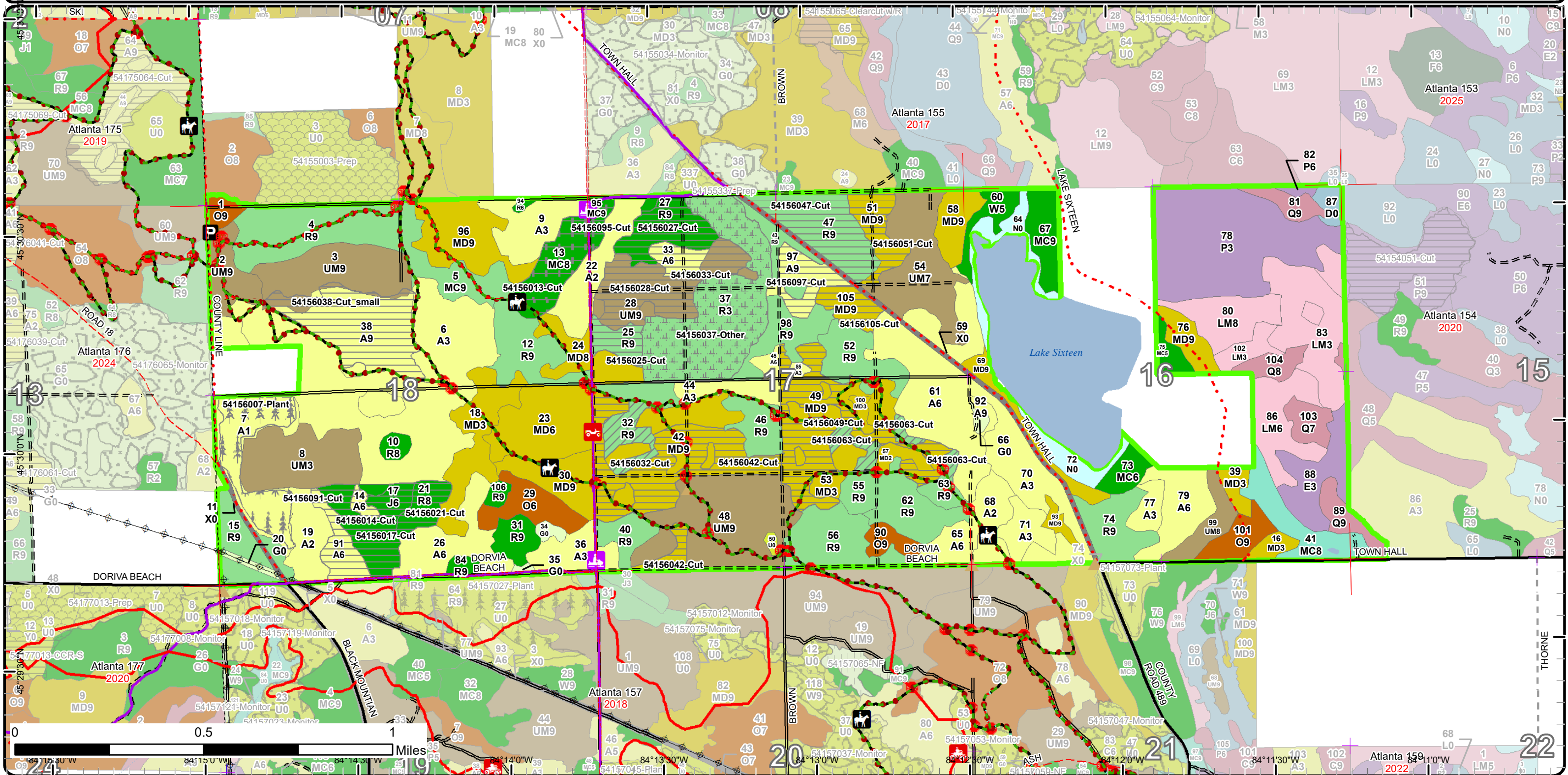
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Cover Type & Treatments Map

Compartment: 156
 T36N, R02E, Sec. 15-18
 County: Presque Isle
 Unit: Atlanta
 Mgmt Area: Hammond Bay Lake Plain
 YOE: 2024
 Acres: 1693.8 GIS Calculated
 Examiner: Darrick Coy
 Map Revised: 11/16/2022
 Map Phase: Post-Review

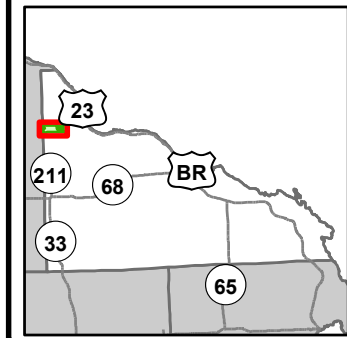


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Horse Trails
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Ski Trails
- Designated Multi-Use Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Berms
- Parking Lot
- Sign
- Trailhead
- Intermittent Stream
- Lake/Pond
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Planting (tree species)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



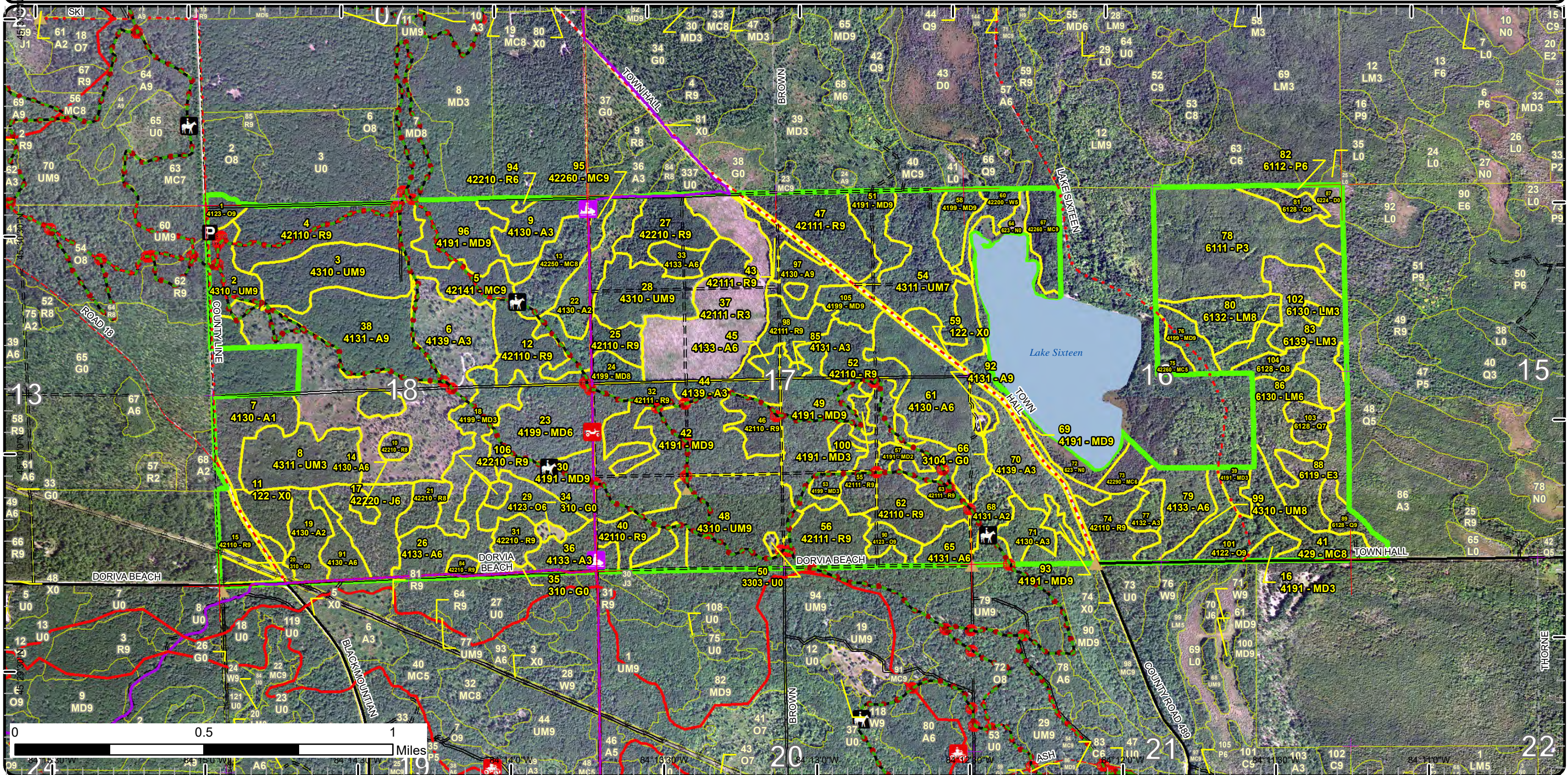
Stand Boundary Map

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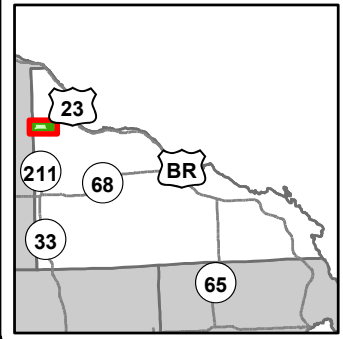


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- Stand Boundaries

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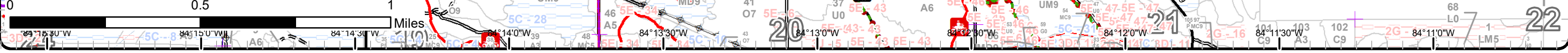
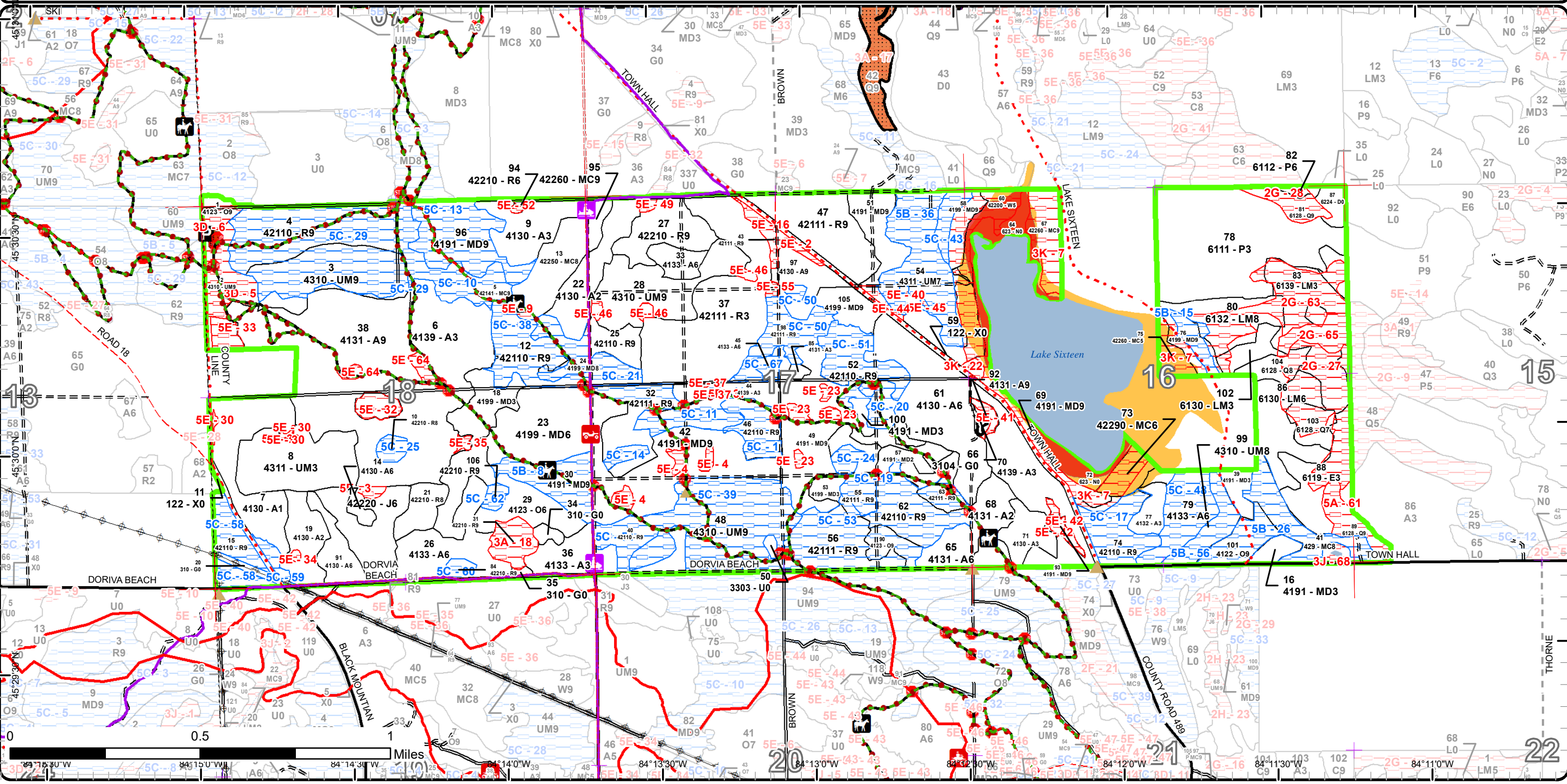


Special Conservation Areas



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- Sign
- Trailhead
- Intermittent Stream
- Lake/Pond
- 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
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Non-Dedicated Natural Areas and National Natural Landmarks
- Trail Head
- Other Habitat Area



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	202	19	26	61	65	3	10	0	0	61	0	0	0	0	0	0	0	447
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Jack Pine	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	21
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Aspen/Balsam Poplar	0	0	0	0	69	2	0	0	0	0	0	0	0	0	0	0	0	0	71
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	6	0	0	23	0	0	0	0	29
Lowland Deciduous	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Mixed Forest	0	0	0	0	38	0	21	0	0	0	0	0	0	24	0	0	0	0	83
Marsh	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Mixed Upland Deciduous	0	0	24	18	0	0	30	0	0	73	112	37	0	0	0	0	0	0	294
Natural Mixed Pines	0	0	0	7	5	0	0	0	0	0	22	13	0	0	0	0	0	0	47
Oak	0	0	0	0	0	14	0	0	0	0	6	5	10	0	0	0	0	0	34
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	18
Red Pine	0	58	0	0	0	0	0	0	0	33	256	0	0	8	0	0	0	0	355
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	19
Upland Mixed Forest	0	0	0	30	0	0	0	0	0	97	75	0	0	0	0	0	0	0	202
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
White Pine	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	46	260	43	81	200	81	75	10	0	203	550	80	10	0	55	0	0	0	1693



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 156

Total Compartment Acres: 1,694

Commercial Harvest - 320
 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
Jack Pine	20	0	0	0	0	0	0	0	0	20
Mixed Upland Deciduous	105	0	0	0	0	0	0	0	0	105
Natural Mixed Pines	0	0	0	0	0	21	0	0	0	21
Red Pine	59	0	0	0	17	0	0	0	0	77
Upland Mixed Forest	29	0	0	0	0	0	0	0	0	29
Total	282	0	0	0	17	21	0	0	0	320

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	320	0	24	0	0	0	58	0	0	402
Next Step	0	317	185	0	0	324	554	0	0	1380
Total	320	317	209	0	0	324	554	58	0	1782



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

7	54156007-Plant	24.2	4130 - Aspen	Sapling Poor	2	Immature	Planting	Initial Plant	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Plant to red pine. <u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u></p> <p><u>Acceptable</u> -rp, aspen, and oak regeneration of medium to well stocking is expected <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
13	54156013-Cut	16.7	42250 - Pine, Oak	Sawtimber Medium	93	51-80	Harvest	Overstory Removal	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> -overstory removal <u>Specs:</u> -harvest operations must avoid damaging existing seedlings and saplings in sale specifications -leave 3-10% in area retention (already excluded- see site conditions layer) -leave all white pine -leave 2-3 red pine per acre to fill in low stocked areas after harvest over time -protect snowmobile trail 994 and black mountain non-motorized pathway in timber sale specifications</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> -any combination of aspen, oak, maple, and pine of medium to high stocking <u>Regen:</u></p> <p><u>Other</u> -parts of this stand were salvage harvest 15 years ago from tornado damage <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
14	54156014-Cut	2.6	4130 - Aspen	Poletimber Well	58	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> -clearcut <u>Specs:</u> -no area retention due to small stand size -protect the Snowmobile Trail 99 in timber sale specifications -require low stumps, reducing, and/or breaking up slash -convert to planted red pine</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); <u>Treatments:</u> Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> -fully stocked red pine with minor deciduous associates <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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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17	54156017-Cut	20.1	42220 - Natural Jack Pine	Poletimber Well	59	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription -clearcut
Specs: -leave 3-10% in area retention (already excluded- see site conditions layer)
 -protect the Snowmobile Trail 99 in timber sale specifications
 -require low stumps, reducing, and/or breaking up slash
 -convert to planted red pine
 -harvest outside of winter to minimize conflicts with trail users
Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)
Acceptable -fully stocked red pine with minor deciduous associates
Regen:
Other
Comment:
Site Condition
Proposed Start Date: 10/1 /2023

21	54156021-Cut	8.1	42210 - Natural Red Pine	Sawtimber Medium	91	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription -clearcut
Specs: -no area retention due to small stand size
 -protect the Snowmobile Trail 99 in timber sale specifications
 -require low stumps, reducing, and/or breaking up slash
Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)
Acceptable -fully stocked red pine with minor deciduous associates
Regen:
Other
Comment:
Site Condition
Proposed Start Date: 10/1 /2023

25	54156025-Cut	7.6	42110 - Planted Red Pine	Sawtimber Well	92	111-140	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	No
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Prescription -clearcut
Specs: -no retention due to small stand size
 -protect snowmobile trail 994 and black mountain non-motorized pathway in timber sale specifications
Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)
Acceptable -fully stocked red pine with a minor component of deciduous species
Regen:
Other
Comment:
Site Condition
Proposed Start Date: 10/1 /2023



Standard

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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27	54156027-Cut	17.1	42210 - Natural Red Pine	Sawtimber Well	83	81-110	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	No
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Prescription -clearcut
Specs: -leave 3-10% in area retention (already excluded- see site conditions layer)
 -protect snowmobile trail 994 and black mountain non-motorized pathway in timber sale specifications
Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)

Acceptable -fully stocked red pine with a minor component of other hardwood species
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

28	54156028-Cut	28.5	4310 - Pine, Oak Mix	Sawtimber Well	92	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription -clearcut -leave 3-10% in area retention (already excluded- see site conditions layer)-protect snowmobile trail 994 and black mountain non-motorized pathway in timber sale specifications
Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)

Acceptable -fully stocked red pine with minor components of northern hardwood species
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

32	54156032-Cut	9.3	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	93	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription -mark to cut stand
Specs: -cut pine over 16 inches that do not exhibit old growth characteristics
 -in overstocked pine pockets, improve spacing and residual growth by thinning between crowns removing roughly 1/3rd of the BA
 -overall stand residual BA after marking should be between 90 and 120
 -cut suppressed trees with smaller crowns and low vigor
 -cut aspen or oak as needed for access
 -consider requiring a harvest outside of winter to minimize conflicts with trail users

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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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33	54156033-Cut	6.4	4133 - Aspen, Mixed Pine	Poletimber Well	49	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription -clearcut
Specs: -no retention due to small stand size
Next Step SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder -
Treatments: Release; Monitoring, Artificial Regen(3yr)
Acceptable -fully stocked red pine with a minor component of other deciduous species
Regen:
Other
Comment:
Site Condition
Proposed Start Date: 10/1 /2023

37	54156037-Other	58.3	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	8	Immature	Other	Other	4211 - Planted Red Pine	Even-Aged	No
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Prescription Pre-commercial thin by hand to remove aspen, red maple and cherry competition. Do not cut any advanced oak regeneration.
Specs:
Next Step
Treatments:
Acceptable Fully stocked planted red pine unsuppressed by red maple, cherry, and aspen competition
Regen:
Other
Comment:
Site Condition
Proposed Start Date: 10/1 /2022

38	54156038-Cut_small	38.7	4131 - Aspen, Oak	Sawtimber Well	91	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription -clearcut-leave 7-10% retention in pockets and linear strips blending in with topography to minimize visual concerns-concentrate retention around areas heavier only to aspen, along and between trails (leave pockets along trail at least 120ft away), and steep slopes-leave all RP, WP, and beech-mark 1-3 oak/acre to leave for mast, den trees, and aesthetics (use diversity)-protect ski/hiking trail and subcanopy pine in specs and consider winter harvest for area south of ski trails for better aspen sprouting-paint trees along trail for trail grooming navigation (suggest using saps at a max spacing of 100ft)
Specs:
Next Step
Treatments:
Acceptable
Regen:
Other -need to have PVT lot surveyed, couldn't find corners Old next step comments: -aspen, rm, pine and oak regeneration of medium to well
Comment: stocking is expected
Site Condition
Proposed Start Date: 10/1 /2020



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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
42 54156042-Cut	45.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	88	111-140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> -clearcut</p> <p><u>Specs:</u> -leave 3-10% in area retention (already excluded- see site conditions layer) -protect snowmobile trail 994 and black mountain non-motorized pathway in timber sale specifications -consider requiring a harvest outside of winter to minimize conflicts with trail users</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Interplant; Monitoring, Artificial Regen(1yr); Monitoring, <u>Treatments:</u> Artificial Regen(3yr); Pesticide, Skidder - Site Prep</p> <p><u>Acceptable</u> -aspen, maple, oak, pine, and fir of medium to high stocking</p> <p><u>Regen:</u> -regen survey after 2 growing seasons to ensure minimum stocking is achieved -alternative cover types of aspen, oak, or pine, mixed deciduous are also acceptable</p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
47 54156047-Cut	26.5	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	93	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> -clearcut -leave 3-10% in area retention (already excluded- see site conditions layer)-protect snowmobile trail 994 and black mountain <u>Specs:</u> non-motorized pathway in timber sale specifications</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); <u>Treatments:</u> Pesticide, Skidder - Site Prep; Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> -fully stocked red pine with a minor component of other hardwood species</p> <p><u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
49 54156049-Cut	38.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	97	111-140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> -clearcut (partial stand harvest)</p> <p><u>Specs:</u> -leave 3-10% in area retention (already excluded- see site conditions layer) -protect snowmobile trail 994 and black mountain non-motorized pathway in timber sale specifications -harvest outside of winter to minimize conflicts with trail users</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u></p> <p><u>Acceptable</u> -aspen, maple, oak, pine, and fir of medium to high stocking</p> <p><u>Regen:</u> -regen survey after 2 growing seasons to ensure minimum stocking is achieved -alternative cover types of aspen, oak, or pine, mixed deciduous are also acceptable</p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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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51	54156051-Cut	12.4	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	103	81-110	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription -clearcut
Specs: -leave 3-10% in area retention adjacent to stand 54 east of N-S road
Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Pesticide, Skidder - Site Prep; Monitoring, Artificial Regen(3yr); Monitoring, Natural Regen (Re-Inve)
Acceptable -fully stocked red pine with a minor component of other hardwood species west of N-S road with planted red pine objective
Regen: -aspen, oak, maple and pine of medium to high stocking east of N-S road with Aspen objective
Other
Comment:
Site Condition
Proposed Start Date: 10/1 /2023

63	54156063-Cut	7.9	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	91	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription -mark to cut stand (partial stand harvest)
Specs: -overall stand residual BA after marking should be between 80 to 100
 -improve spacing and residual growth by thinning between crowns
 -cut suppressed trees with smaller crowns and low vigor
 -mark aspen and oak as needed for access
 -ensure equipment has 11ft of operating space
 -protect black mountain non-motorized pathway in timber sale specifications
 -harvest outside of winter to minimize conflicts with trail users
Next Step
Treatments:
Acceptable
Regen:
Other
Comment:
Site Condition
Proposed Start Date: 10/1 /2023

91	54156091-Cut	10.0	4130 - Aspen	Poletimber Well	61	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription -clearcut
Specs: -no area retention due to small stand size
 -protect the Snowmobile Trail 99 in timber sale specifications
Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)
Acceptable -aspen, maple, pine, and oak regeneration of medium to well stocking is expected
Regen:
Other
Comment:
Site Condition
Proposed Start Date: 10/1 /2023



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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
95 54156095-Cut	4.1	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	93	81-110	Harvest	Overstory Removal	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> -overstory removal <u>Specs:</u> -harvest operations must avoid damaging existing seedlings and saplings in sale specifications -no area retention due to small stand size -leave all white pine -leave 2-3 red pine per acre to fill in low stocked areas after harvest over time -protect snowmobile trail 994 and black mountain non-motorized pathway in timber sale specifications</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -aspen, maple, oak, pine, and fir of medium to high stocking -alternative cover types of aspen, oak, or red maple, conifer are also acceptable</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
97 54156097-Cut	11.2	4130 - Aspen	Sawtimber Well	93	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> -clearcut-leave 3-10% in area retention (already excluded- see site conditions layer) <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -aspen, oak, maple, fir, and pine of medium to high stocking</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
105 54156105-Cut	8.5	4199 - Other Mixed Upland Deciduous	Sawtimber Well	97	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> -clearcut <u>Specs:</u> -leave 3-10% in area retention (already excluded- see site conditions layer)</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -aspen, oak, maple, fir, and pine of medium to high stocking</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 402.2

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Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

					Dominant Site Conditions										
					5B	5C	2G	3A	3D	3J	3K	5A	5E	ed	
446	404	20	22	Aspen	0	20		0	0			6		16	1
6	6	0	0	Herbaceous Openland											
21	20	0	1	Jack Pine										1	
1	1	0	0	Low-Density Trees											
71	69	0	2	Lowland Aspen/Balsam Poplar			2								
30	7	0	23	Lowland Conifers			15					8			
19	11	0	8	Lowland Deciduous	0		8								
82	32	1	50	Lowland Mixed Forest	1		50					0			
21	21	0	0	Marsh								0			
295	177	88	29	Mixed Upland Deciduous	21	68	1					18		11	
47	22	0	24	Natural Mixed Pines		0						23		1	
35	15	16	3	Oak	10	6		0	3						
18	0	18	0	Planted Mixed Pines		18									
355	136	203	16	Red Pine		203		8				1		7	
4	4	0	0	Treed Bog											
19	1	16	2	Upland Conifers	16					2					
202	63	119	19	Upland Mixed Forest	41	78			14			1		5	
14	14	0	0	Urban		0								0	
	0	0	0	White Pine											
1,686	1,004	481	200	Total Forested Acres	89	393	75	8	17	2	49	8	41	1	
	60%	29%	12%	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	Dominant Site 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	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

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2	Unavailable	5E: Long-Term Retention	2	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 47							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 17							
4	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 42							
5	Unavailable	3D: Recreational / Scenic values	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -non-motorized trail head protection and preservation of scenic values							
6	Unavailable	3D: Recreational / Scenic values	3		Unspecified	Unspecified	Unspecified
Comments: -trailhead visual concerns -RP developing underneath oak naturally. Let oak mortalize and RP become established naturally along trail and Black Mountain Rd. Light levels will become increasingly available for RP as oak declines in vigor/mortalizes.							
7	Unavailable	3K: Rare or unique landforms	56	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -300ft protection zone for the Lake Sixteen Intermittent Wetland ERA (Dead Man's Marsh)							

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8	Available	5B: Maintain for regeneration purposes	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -many cavity oak trees important to wildlife -a fair amount of oak will fail to stump sprout, if cut							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 13							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: -high adv white pine with potential legacy red pines in east half							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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15	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	3	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: -stand was added as retention for large clearcut to adjacent west							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3A: Conservation Values incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -leave untreated for future potential old growth, oldest RP in compartment							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: -more open grown RP with natural RP regeneration coming in underneath -thinning not necessary -let RP develop and re-evaluate next yoe							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments:							

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21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -leaving for trail visual with large cuts to the NE-aspen decline and mortality along the trail is expected							
22	Unavailable	3K: Rare or unique landforms	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -protection zone for the Lake Sixteen Intermittent Wetland ERA (Dead Man's Marsh)							
23	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 49							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	5B: Maintain for regeneration purposes	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	63		Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unspecified	Unspecified	1		Unspecified		
Comments:							
32	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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34	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Available	5B: Maintain for regeneration purposes	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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41	Unavailable	5E: Long-Term Retention	2	(Inactive)3I: Historical / archeological (add locked comments)	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	5E: Long-Term Retention	3	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
43	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
46	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 28							
48	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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49	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 27							
50	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
52	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 9							
53	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
54	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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55	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 97							
56	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
58	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
59	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
60	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
61	Unavailable	5A: Not able to obtain desirable regeneration	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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62	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
63	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
64	Unavailable	5E: Long-Term Retention	3	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Aggregate retention for harvest in stand 38, between two trails (A9 in 2021).							
65	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
67	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
68	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
Black Mountain Non-Motorized Pathway	Concentrated Recreation Area	Trail Head	SCA Proposa	1
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.

Conservation Area	Type	Description
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	4123 - Red Oak	Sawtimber Well	4.5	103	51-80	N/A	-borders recreation parking lot -a lot amount of natural rp coming in under large oak -A LOT OF RECREATIONAL ACTIVITY.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		20	Log	13		Red Pine	High	Variable	Sapling
Bigtooth Aspen		10	Log/Pole	10		Red Oak	Low	Variable	Sapling
Red Oak		70	Log/XLog	14	103	Red Maple	Medium	Variable	Sapling
2	4310 - Pine, Oak Mix	Sawtimber Well	14.0	85	111-140	N/A	-steep south of ski trail passing through e-w-mixed stand-left as buffer-adv wp thick in south half		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		30	Log/Pole	11		Red Maple	Medium	Variable	Sapling
Red Oak		20	Log/Pole	13	103	Red Oak	Medium	Variable	Sapling
White Pine		7	Log/Pole	10		White Pine	Medium	Variable	Sapling
Red Pine		43	Log/Pole	12	85	Red Pine	Low	Variable	Sapling
						Beech	Low	Variable	Sapling
3	4310 - Pine, Oak Mix	Sawtimber Well	32.0	84	81-110	N/A	-Dare the mountain- 54-049-94-01-cut 1996-left all rp, wp, and oak (west half of stand cut in sale only)-more open mixed stand of oak and rp-fair amount of oak mast trees-some dense subcanopy growth of rm and oak but is patchy-subcanopy rm 30% and oak 30%-some pine regen coming in in small pockets-evidence of good rp regen underneath oak in small adj nw oak stand		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		50	Log/XLog	15	84	Red Maple	Medium	Variable	Sapling
Red Oak		40	Log	13		Beech	Low	Variable	Sapling
Bigtooth Aspen		5	Log/Pole	10		Red Oak	Medium	Variable	Sapling
White Pine		5	Log	13		White Pine	Low	Variable	Sapling
4	42110 - Planted Red Pine	Sawtimber Well	35.3	93	111-140	N/A	-most red pine have full crowns with good growing space except along trail-ski/hiking trail through stand-rm subcanopy coverage 40%-oak subcanopy coverage 20%-residual BA for area thinned this entry is 127-the west thinned portion was treated as an inclusion since the overall stand 4 BA is 110-140-west thinning was completed 2/17/17		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		15	Log/Pole	13		Red Maple	Medium	Variable	Sapling
White Pine		5	Log/Pole	13		Red Oak	Medium	Variable	Sapling
Red Pine		80	Log/XLog	15	93	Beech	Low	Variable	Sapling
5	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	17.9	90	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		5	Pole/Log	8		Beech	Low	Variable	Sapling
Red Pine		50	Log	14	90	Red Oak	Low	Variable	Sapling
Jack Pine		15	Pole/Log	8		Red Maple	Low	Variable	Sapling
Red Oak		30	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
6	4139 - Aspen, Mixed Deciduous	Sapling Well	99.2	7	1-50	N/A	-stand was clearcut 7/2/15-more rp and mast oak trees in sw 20 acres of stand, some natural rp regen-better oak regen with less aspen suppression in areas with more residual overstory pine or oak-minimal browse on oak-regen is 5-10ft tall																																													
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Jack Pine	2	Sapling	1																																																	
7	4130 - Aspen	Sapling Poor	30.1	2	Immature	N/A	Herbicide application was completed on 6/23/22. Trenching for the planting of red pine was completed on 5/27/2022. -felling complete 2/8/2018 -rollerchopping complete, check lineage																																													
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8	4311 - Pine, Aspen Mix	Sapling Well	30.1	25	1-50	N/A	-good mix of healthy regen																																													
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10	42210 - Natural Red Pine	Sawtimber Medium	3.1	92	51-80	N/A	-stand was clearcut 7/2/15 -more rp and mast oak trees in sw 20 acres of stand, some natural rp regen -better oak regen with less aspen suppression in areas with more residual overstory pine or oak -minimal browse on oak -regen is 5-10ft tall																																													
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11	122 - Road/Parking Lot	Nonstocked	3.6			No																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
12	42110 - Planted Red Pine	Sawtimber Well	19.9	93	111-140	N/A	-completed cutting 12/9/16-residual BA is 117 post harvest-1/6th-1/5th live crown-trees are healthy but growing bit slower																																					
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13	42250 - Pine, Oak	Sawtimber Medium	17.6	93	51-80	N/A	-part of salvage cut 2007 tornado -regen is adequate but fair amt is rm -appears that they cut all rm and aspen																																					
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14	4130 - Aspen	Poletimber Well	2.6	58	51-80	N/A	-healthy bta pocket																																					
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16	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	4.1	26	1-50	N/A	-significant wp and rm regen -some fairly good quality oak -bowling block- 54-026-94-01 -removed all aspen, rm, jp and p. birch -legacy wp and more adv wp in north half																																					
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17	42220 - Natural Jack Pine	Poletimber Well	21.3	59	51-80	N/A	-jp are healthy																																					
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18	4199 - Other Mixed Upland Deciduous	Sapling Well	23.9	15	1-50	N/A	-blow down from 2007 tornado, aspen growth coming in with a significant amount of down logs -diverse stand in composition and structure																																																
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19	4130 - Aspen	Sapling Medium	13.9	5	Immature	N/A	some browse on ok but rather minor																																																
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21	42210 - Natural Red Pine	Sawtimber Medium	8.1	91	1-50	N/A	-isolated stand of larger red pine -most red pine have full release and good crown development -mostly open/variable density																																																
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22	4130 - Aspen	Sapling Medium	18.8	15		N/A	was salvage cut in 2005																																																
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23	4199 - Other Mixed Upland Deciduous	Poletimber Well	29.9	56	51-80	N/A	-mixed stand of varying size classes -left rp and some larger oak -pine heavier to east edge and west 3rd																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
24	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	14.3	91	81-110	N/A	-some older aspen from last treatment was left unharvested along east edge of RP stand to the adjacent west to limit branch growth-most aspen have been suppressed dead/dying and red maple remains suppressed but persisting		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		50	Log/Pole	12	91	Bigtooth Aspen	Low	>20 feet	Sapling
Bigtooth Aspen		35	Log/Pole	12	91	Red Oak	Low	>20 feet	Sapling
Red Pine		15	Log/Pole	12		Red Maple	Medium	>20 feet	Sapling
25	42110 - Planted Red Pine	Sawtimber Well	7.6	92	111-140	N/A	-completed cutting 12/9/16 -residual BA is 117		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		5	Log/Pole	13		Red Maple	Low	5 - 10 feet	Sapling
Red Pine		95	Log/Pole	13	92	Beech	Low	Variable	Sapling
26	4133 - Aspen, Mixed Pine	Poletimber Well	23.6	46	51-80	N/A	-multiple age classes in pine-natural red pine coming in-tornado created blow-down/diversity/habitat		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		15	Pole/Sapling	6	46	Red Oak	Medium	Variable	Sapling
Bigtooth Aspen		45	Pole/Sapling	6	46	Red Maple	Low	Variable	Sapling
Red Pine		35	Log/XLog	16	92	Red Pine	Low	< 5 feet	Sapling
Red Oak		5	Log/Pole	12					
27	42210 - Natural Red Pine	Sawtimber Well	18.0	83	81-110	N/A	-getting some natural rp reproduction to the adj stand to west-Part of stand was leveled by a tornado in 2007. Downed timber was salvaged, standing oak and pine were left-most red pine have more open crown development		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		5	Log/XLog	15		Red Oak	Medium	Variable	Sapling
Bigtooth Aspen		5	Pole	5		Bigtooth Aspen	Low	Variable	Sapling
White Pine		5	Log/Pole	11		Red Maple	Medium	Variable	Sapling
Red Pine		85	Log/XLog	16	83				
28	4310 - Pine, Oak Mix	Sawtimber Well	31.0	92	141-170	N/A	-about 20-25% of rp is being overtopped by aspen and oak -varuable to diameters in rp -plantation with failed site prep		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		25	Pole	7	92	White Pine	Low	Variable	Sapling
White Pine		3	Log/Pole	12		Beech	Low	Variable	Sapling
Red Oak		20	Log/Pole	12		Red Maple	Low	Variable	Sapling
Red Pine		52	Log/Pole	11	92				
29	4123 - Red Oak	Poletimber Well	13.9	46	1-50	N/A	-old oak cc-good oak regen from stump sprouts		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		15	Pole/Sapling	7		Red Pine	Low	Variable	Sapling
Red Oak		65	Pole/Sapling	7	46	Red Oak	Low	Variable	Sapling
Red Pine		20	Log/XLog	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
30	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	15.7	102	51-80	N/A	-stand assumed to be left as a buffer for trail -mast oak trees encompass 40-50% stand cover due to moderate openness and lack of treatment-over half of stand is on side hill																																																							
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31	42210 - Natural Red Pine	Sawtimber Well	7.7	131	81-110	N/A	-most regen has been suppressed by dense RP-variable density rp stand-old RP with large developed crowns, tall, and high seed output potential -contains some legacy RP, oldest rp in comp -2 aged but can't code with same species, half of rp is 93 yrs old and 156 yrs, mostly 93 yrs to south and east, averaged ages-cut everything but red pine 46 years ago																																																							
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32	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	16.4	93	141-170	N/A	-poor quality aspen-mixed stand, steep in places-pockets of aspen where red pine failed to establish-some minor natural rp regen to south end of stand-BA for thinned area north of trail is 120, added back into parent stand due to this area having the same residual BA 110-140																																																							
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33	4133 - Aspen, Mixed Pine	Poletimber Well	6.4	49	81-110	N/A	-fast growth, no rot, good diameters for age																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
37	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	58.3	8	Immature	N/A	Trenched on 11/13/14 Planted on 4/17/15 at 963 RP/ac with PRT 5664 1-0 stock Year 1 Survey on 6/28/16 at 922 RP/ac and 2,307 M/A/C Competition/ac Herbicide on 9/19/17 Year 3 Survey on 6/22/18 at 898 TPA red pine, 135 TPA red oak, 763 TPA red maple, 165 TPA bigtooth aspen, 44 TPA cherry Light to moderate browse. Trenches filling in. Undersireable regen in clumps, but not enough to warrant herbicide. -rp 5-10ft tall, other trees 10-20ft tall, Aspen stems at 2inches or above, rm 1in or below																																																															
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38	4131 - Aspen, Oak	Sawtimber Well	47.4	91	81-110	N/A	-about 35-40% subcanopy of red maple -more rp and mast oak trees in sw 20 acres of stand, some natural rp regen -north portion above trail seems slightly older																																																															
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40	42110 - Planted Red Pine	Sawtimber Well	8.5	92	111-140	N/A	-thinned fall 2016- residual ba is 110 -poorer quality with a few utility poles -stand is on a hillside -rp regen to south of stand -Dare the mountain- 54-049-94-01 -cut 1996 -left all rp, wp, and oak																																																															
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41	429 - Mixed Upland Conifers	Sawtimber Medium	19.2	104	81-110	N/A	-significant wp and rm regen -scenic stand -vvb site, natural rp on transitional edge -some fairly good quality oak -highly variable stand canopy structure -minor part of stand part of bowling block- 54-026-94-01 -removed all aspen, rm, jp and p. birch																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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42 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 62.5 88 111-140 N/A -original stand was stand 42 -MIFI error changed stand to zero and then assigned stand 49

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	34	Log/Pole/XLog	11	82	White Pine	Medium	Variable	Sapling
Jack Pine	1	Pole	8		Red Oak	Medium	Variable	Sapling
Red Maple	5	Pole	6		Red Pine	Medium	Variable	Sapling
Bigtooth Aspen	16	Log/Pole	12		Beech	Medium	Variable	Sapling
White Pine	1	Log/Pole	10		Red Maple	Medium	Variable	Sapling
Red Oak	43	Log/Pole/XLog	12	88				

43 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Well 5.5 93 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log	7		Red Oak	Low	Variable	Sapling
Bigtooth Aspen	5	Pole/Log	8		Red Maple	Medium	Variable	Sapling
Red Pine	80	Log	13	93				
Red Oak	10	Log/Pole	12					

44 4139 - Aspen, Mixed Deciduous Sapling Well 8.4 5 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	3	Log	13	
Red Oak	15	Sapling	1	
Red Maple	20	Sapling	1	
Bigtooth Aspen	59	Sapling	1	5
Red Pine	1	Sapling	2	
Red Pine	2	Log	16	

45 4133 - Aspen, Mixed Pine Poletimber Well 2.7 49 51-80 N/A -pockets of unthinned red pine within stand

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	35	Log/Pole	13	
Red Oak	5	Log/Pole	12	
Bigtooth Aspen	60	Pole/Sapling	7	49

46 42110 - Planted Red Pine Sawtimber Well 11.2 93 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	88	Log	14	93	Red Oak	Low	5 - 10 feet	Sapling
Bigtooth Aspen	5	Pole/Log	8		Red Maple	Low	5 - 10 feet	Sapling
Red Oak	7	Log/Pole	12		Beech	Low	5 - 10 feet	Sapling

-row direction not well defined
-good quality and pruning in rp
-ba is variable in some places
-stand was thinned to 120 residual BA Fall 2016
- 1-5-1/6 live crown
- vha-vvb site



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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47 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Well 26.5 93 141-170 N/A
 -good quality logs, just entering large log size class
 -best site rp in compartment, PARVVb+
 -planting record taken of 40 acre card-1/6-1/8 live crown

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Log	13		Red Maple	High	Variable	Sapling
Red Pine	75	Log/XLog	16	93	Beech	Medium	Variable	Sapling
Red Maple	10	Log/Pole	12		Red Oak	Low	Variable	Sapling
Red Oak	5	Log	13					

48 4310 - Pine, Oak Mix Sawtimber Well 50.9 82 81-110 N/A
 -SKI TRAIL THRU STAND. VERY MIXED UNDERSTORY, RED&WHITE PINE-OAK-MAPLE
 -most pine crowns have full release
 -rp 72yrs and 65ft
 -it appears that pine are establishing well under existing older oak (look south of east/west two-track- good rp regen)
 -steeper terrain on south portion of trail

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	50	Log	14	82	Red Maple	Medium	Variable	Sapling
Red Oak	35	Pole/Log	8	46	Red Oak	Medium	Variable	Sapling
Bigtooth Aspen	10	Pole	7	46	Red Pine	Low	Variable	Pole
Red Maple	5	Pole	6	46				

49 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 52.6 97 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	40	Log/Pole	12	97	White Pine	Low	Variable	Sapling
Bigtooth Aspen	15	Log/Pole	10		Beech	Low	Variable	Sapling
Red Pine	39	Log/Pole	10		Red Pine	Medium	Variable	Sapling
Jack Pine	1	Pole	9		Red Oak	Low	Variable	Sapling
Red Maple	5	Pole/Log	8		Red Maple	High	Variable	Sapling

50 3303 - Mixed Low Density Trees Nonstocked 1.0 No

51 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 12.4 103 81-110 N/A
 -vvb site, better site than most of compartment stands to west

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	30	Log/XLog/Pole	14	103	Beech	Low	Variable	Sapling
Bigtooth Aspen	25	Log	14		Red Oak	Low	Variable	Sapling
Red Pine	10	Log/XLog	15		White Pine	Medium	Variable	Sapling
White Pine	15	Log/XLog	14		Red Maple	Medium	Variable	Sapling
Red Maple	20	Pole/Log	9					

52 42110 - Planted Red Pine Sawtimber Well 16.4 93 111-140 N/A
 -only 1/6th to 1/7th live crown-residual BA post harvest completed in fall 2016 is117

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	3	Log	11	
Red Pine	82	Log/Pole	12	93
Red Oak	15	Log	13	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
53	4199 - Other Mixed Upland Deciduous	Sapling Well	3.4	26	1-50	N/A	-Der Black Forest- 54-052-94-01 -cut all but red and white pine in 1995		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Oak		20	Sapling	3					
Bigtooth Aspen		30	Sapling	3					
Red Pine		10	Sapling/Pole	4					
Jack Pine		5	Sapling/Pole	4					
Red Maple		35	Sapling	3	26				
54	4311 - Pine, Aspen Mix	Sawtimber Poor	34.3	92	1-50	N/A	New stand added. -HEAVY WP SUBCANOPY, need release -some places appear to have been planted to rp, age suggests that it was -residual BA post shelterwood cut was 44 (7 ba oak, 12 ba rp, 14 ba aspen, and 11 ba -40-50% wp, 10-20% rm, 10- 20% oak, 5-10% bta, 5-10% bch -good results from cut scenic, good regen species mix, legacy pines, cavity mast oak and aspen, oak and wp regen not fully suppressed by aspen overstory, wasn't converted to aspen from a clearcut harvest		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		25	Log/XLog	15		White Pine	High	Variable	Sapling
Bigtooth Aspen		31	Log/Pole	12	92	Red Oak	Medium	5 - 10 feet	Sapling
Red Pine		27	Log/XLog	15	92	Bigtooth Aspen	Low	10 - 20 feet	Sapling
Red Oak		17	Log/Pole	13		Red Maple	Medium	5 - 10 feet	Sapling
55	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	6.3	92	51-80	N/A	-various patches of natural rp under oak throughout -most pine and oak have good release		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Pole	6		Red Oak	Low	Variable	Sapling
Red Pine		60	Log	14	92	Red Pine	Low	Variable	Sapling
Red Oak		25	Log	13					
56	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	22.5	92	111-140	N/A	-residual BA post fall 2016 harvest is 111		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		25	Log/Pole	12		Beech	Low	Variable	Sapling
Red Pine		72	Log	14	92	Striped Maple	Low	Variable	Sapling
Bigtooth Aspen		3	Pole/Log	8		Red Maple	Medium	Variable	Sapling
57	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	4.1	26	1-50	N/A	-left pine and a few oak		
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		15	Sapling/Pole	3					
Red Pine		20	Log/Pole	10	68				
Red Maple		30	Sapling/Pole	3					
Red Oak		35	Sapling/Pole	3	26				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
58	4199 - Other Mixed Upland Deciduous	Sawtimber Well	10.6	81	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		15	Log	13		White Pine	
White Pine		10	Log/XLog	14		Low	
Red Oak		25	Log/Pole	12		Variable	
Sugar Maple		10	Log/Pole	10		Sapling	
Red Maple		40	Log/Pole	11	81	Medium	
						Variable	
						Sapling	
59	122 - Road/Parking Lot	Nonstocked	10.8			No	
60	42200 - Natural White Pine	Poletimber Medium	7.6	38	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		90	Pole/Sapling	7	38		
Red Pine		10	Pole/Sapling	7			
61	4130 - Aspen	Poletimber Well	52.7	35	51-80	N/A	-black- 16 block 54-023-84-01
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		10	Pole/Sapling	5		White Pine	
Bigtooth Aspen		75	Pole/Sapling	6	35	Low	
Red Pine		5	Log	13		Variable	
Red Maple		10	Pole/Sapling	5		Sapling	
						5 - 10 feet	
						Sapling	
						10 - 20 feet	
						Sapling	
62	42110 - Planted Red Pine	Sawtimber Well	18.3	93	111-140	N/A	-residual BA post fall 2016 harvest is 111
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		10	Log/Pole	13		Beech	
Red Pine		90	Log	13	93	Low	
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						Sapling	
						Red Oak	
						Low	
						5 - 10 feet	
						Sapling	
						White Pine	
						Low	
						Variable	
						Sapling	
63	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	12.4	91	111-140	N/A	-some suppressed pine -traces of planting rows
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		65	Log/Pole	12	91	Red Oak	
Bigtooth Aspen		15	Pole/Log	8		Medium	
Red Oak		20	Log/Pole	12	99	Variable	
						Sapling	
64	623 - Emergent Wetland	Nonstocked	11.8			No	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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65	4131 - Aspen, Oak	Poletimber Well	8.0	35	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	60	Pole/Sapling	5	35	Red Maple	Medium	Variable	Sapling
Red Oak	20	Pole/Sapling	5		Red Oak	Medium	Variable	Sapling
Red Maple	20	Sapling/Pole	4					

66	3104 - Degraded	Nonstocked	1.3			No	
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67	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	12.6	102	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	20	Log/Pole	13		Ironwood	Low	Variable	Sapling
White Pine	5	Log	14		Red Osier Dogwood	Low	Variable	Tall Shrub
Red Pine	40	Log/XLog	16	102	Balsam Fir	Medium	Variable	Sapling
Jack Pine	15	Pole/Log	9		White Pine	High	Variable	Sapling
Bigtooth Aspen	20	Log/Pole	10	102	Sugar Maple	Low	Variable	Sapling

-scenic
-evidences of hard maple in south half with high levels of advanced wp
-3-4 acre strip of jack pine along west edge, considered an inclusion

68	4131 - Aspen, Oak	Sapling Medium	9.8	26	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	3	
Red Oak	10	Sapling	3	
Bigtooth Aspen	55	Sapling	3	26
Red Pine	5	Log	13	
Red Oak	20	Log	13	94

69	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	8.8	92		N/A	-good species diversity
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	15	Log/Pole	14	92	Red Pine	Low	Variable	Pole
Red Maple	15	Pole/Log	8		White Pine	Low	Variable	Sapling
Red Oak	35	Log/XLog	14	92				
Bigtooth Aspen	30	Log	11	92				
White Pine	5	Log	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
70	4139 - Aspen, Mixed Deciduous	Sapling Well	32.2	5	1-50	N/A	-steep in places-ridge running nw to se -cutting complete 5/31/17 -fair amount of oak saplings being overtopped by aspen																																																						
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71	4130 - Aspen	Sapling Well	9.4	26		N/A	-SKI TRAIL PASSES ALONG SOUTH EDGE OF STAND -Imaginary Grass Block- 54-040-94-01 -left all rp, wp, and green painted trees																																																						
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Bigtooth Aspen	75	Sapling/Pole	4	26																																																									
72	623 - Emergent Wetland	Nonstocked	9.1			No																																																							
73	42290 - Natural Mixed Pine	Poletimber Well	6.9	28	81-110	N/A																																																							
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74	42110 - Planted Red Pine	Sawtimber Well	16.2	93	111-140	N/A	-most rp have good are free to grow -cored 86 yrs-bowling block- 54-026-94-01 -removed all aspen, rm, jp and p. birch -average site with fairly high subcanopy rm competition																																																						
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75	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	5.3	35	1-50	N/A	-some older wp and rp log trees																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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76 4199 - Other Mixed Upland Deciduous Sawtimber Well 8.6 102 81-110 N/A -small stand bisected by dead end road

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	35	Log/Pole	13	102	Striped Maple	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	35	Log	12	102	Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
White Pine	3	Log/XLog	17		Red Maple	Low	Variable	Sapling
Red Pine	5	Log/XLog	15		Sugar Maple	Low	Variable	Sapling
Red Maple	20	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
Hemlock	2	Log	12		White Pine	Medium	Variable	Sapling
					Beech	Low	Variable	Sapling

77 4132 - Aspen, Jack Pine Sapling Well 5.9 25 1-50 N/A New stand added.
-was cut with rp to west
-interplanted jp in low stocked areas to south
-regen looks good

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Sapling	3	
Jack Pine	30	Sapling/Pole	4	
Red Maple	10	Sapling/Pole	3	
Red Oak	5	Log	13	
Bigtooth Aspen	50	Sapling/Pole	4	25

78 6111 - Lowland Balsam Poplar Sapling Well 69.1 36 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Sapling/Pole	4		Balsam Fir	Medium	Variable	Sapling
Balsam Poplar	50	Sapling/Pole	4	36				
Willow spp.	5	Sapling	3					
Red Maple	10	Sapling/Pole	3					
Quaking Aspen	30	Sapling/Pole	4					

79 4133 - Aspen, Mixed Pine Poletimber Well 18.3 48 N/A SCA - wetland on edge is in TNC registry for intermittent wetland with several T&E plant species present. natural community ranked as G3, S3. May be a high quality site and could be an ERA. See note in compartment file 9/21/05.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log/Pole	12		White Pine	Low	Variable	Sapling
Bigtooth Aspen	50	Pole/Sapling	7	48	Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Jack Pine	5	Pole/Sapling	6		Red Maple	Medium	Variable	Sapling
Red Oak	10	Log/Pole	13					
Red Pine	15	Log/Pole	13					
Red Maple	15	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
80	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	23.7	133	51-80	N/A	-overstory aspen has mostly mortalized-significant amount of down bole wood-high variability in canopy structure-drainages throughout with lowland shrub veins																																																							
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81	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	6.4	105		N/A																																																								
82	6112 - Lowland Aspen	Poletimber Well	1.6	44	51-80	N/A																																																								
83	6139 - Mixed Lowland Forest	Sapling Well	31.4	35	1-50	N/A	-cedar barely alive -wall of fir and ash saplings, new canopy is for saplings -possibly cut through this stand from surrounding cut to north but left a lot more cedar -looks like it wasn't cut and overstory died around the same time																																																							
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84	42210 - Natural Red Pine	Sawtimber Well	2.6	93	81-110	N/A	-cut everything but red pine 46 years ago																																																							
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85	4131 - Aspen, Oak	Sapling Well	1.1	26	1-50	N/A	-part of Der Black Forest- 54-052-94-01-cut all but red and white pine in 1995-natural pine regen																																																							
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86	6130 - Fir, Aspen, Maple	Poletimber Well	20.7	55	51-80	N/A	-relatively low volume, poor quality/small diameter-north appears to be younger, averaged ages																																																												
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87	6224 - Treed Bog	Nonstocked	4.2			No	-dead trees and scattered live trees																																																												
88	6119 - Mixed Lowland Deciduous Forest	Sapling Well	19.3	36	1-50	N/A	-some willow, ash and birch-traces of elm-very wet-some cattails and stagnant growth																																																												
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89	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	8.1	138	141-170	N/A	north 1/3rd of stand is more broken up in canopy with thick balsam fir																																																												
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94	42210 - Natural Red Pine	Poletimber Well	1.0	93	81-110	N/A	-area retention for aspen stand to the north, heavy to rp for this particular area																																									
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95	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	4.1	93	81-110	N/A																																										
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97	4130 - Aspen	Sawtimber Well	12.0	93	81-110	N/A	-oak are healthy and aspen surprisingly are not significantly rotten yet -ParVVb+ site																																								
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98	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	15.8	93	111-140	N/A	-1/5-1/6 crown-more if a vha-vvb site																																								
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99	4310 - Pine, Oak Mix	Sawtimber Medium	9.8	97	51-80	N/A	-significant wp and rm regen-rather scenic stand, semi-open with heavy subcanopy of desirable species mix-oak are limby and mast trees, much better for wildlife value-highly variable stand canopy structure																																								
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100	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	2.2	26	1-50	N/A	-left pine and a few oak																																								
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101	4122 - Oak, Pine	Sawtimber Well	10.1	111	81-110	N/A	-significant adv wp coverage -scenic along roadway-highly variable stand canopy structure																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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102 6130 - Fir, Aspen, Maple Sapling Well 6.5 37 N/A New stand added.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	45	Sapling/Pole	4	37	Balsam Fir	Medium	Variable	Sapling
Balsam Poplar	30	Sapling/Pole	4	37				
Northern White Cedar	7	Log/Pole	11					
Quaking Aspen	10	Sapling/Pole	4					
Yellow Birch	3	Sapling/Pole	4					
Paper Birch	5	Sapling/Pole	4					

103 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Poor 7.4 136 51-80 N/A -canopy broken up in many places -larger aspen to nw-balsam fir sub is thick and converting stand

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Log/Pole	13		Balsam Fir	High	Variable	Sapling
Black Spruce	5	Pole/Sapling	6					
Northern White Cedar	35	Log/Pole	11	136				
Balsam Fir	30	Pole	5	47				
Red Pine	5	Log	13					
Balsam Poplar	10	Pole/Sapling	7					
Quaking Aspen	10	Log	12					

104 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Medium 7.6 136 81-110 N/A -canopy fairly broken up in places -larger aspen to nw

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	40	Log/Pole	11	136	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	10	Pole/Log	8		Red Maple	Medium	Variable	Sapling
White Spruce	5	Pole/Sapling	6		Black Ash	Medium	Variable	Sapling
Black Spruce	5	Pole/Sapling	6		Balsam Fir	Medium	Variable	Sapling
Balsam Poplar	10	Pole/Log	8					
Balsam Fir	30	Pole/Sapling	6					

105 4199 - Other Mixed Upland Deciduous Sawtimber Well 8.5 97 81-110 N/A -oak are healthy and aspen surprisingly are not significantly rotten yet -PARVVb+ site

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	15	Log/Pole	13		White Pine	Low	Variable	Sapling
Bigtooth Aspen	25	Log/Pole	10		Red Pine	Low	Variable	Sapling
Red Oak	50	Log/Pole	13	97	Red Maple	Medium	Variable	Sapling
Red Maple	10	Pole/Log	9					

106 42210 - Natural Red Pine Sawtimber Well 2.3 93 81-110 N/A -cut everything but red pine 46 years ago

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Pole	5		Red Oak	High	5 - 10 feet	Sapling
Bigtooth Aspen	5	Pole	5		Bigtooth Aspen	Low	5 - 10 feet	Sapling
Red Pine	90	Log/XLog	15	93	Red Pine	Low	Variable	Sapling