



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54128

Entry Year 2022

Acreage: 1,667

County Presque Isle

Management Area: Thunder Bay Outwash

Revision Date: 2020-05-19

Stand Examiner: Darrick Coy

Legal Description:

T33N, R4E, Sec. 20, 21, 28, 29, 32, & 33

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. Harvests prescribed will help to balance the age classes of aspen and other deciduous cover types to sustainably produce various timber products, enhance game and non-game wildlife habitat and provide for forest-based recreational uses.

Soil and topography:

Soils are primarily well to excessively drained sands. The topography is mostly rolling with some minor areas of extreme slope or flat terrain. Cover types are predominately aspen, oak, planted and natural pine, and lowland conifer. Forest habitat types are primarily dominated by PARVVb, PARVHa, and unclassified lowland.

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

The compartment has solid private ownership to the north and west with other areas of mixed ownership. No gas production facilities/infrastructure or designated recreational trails exist. A police radio tower under lease exists within section 20.

Unique Natural Features:

No documented species present. Contact Michigan Natural Features Inventory for more information or reporting.

Archeological, Historical, and Cultural Features:

No known sites exist. Contact the State Historical Preservation Office for more information or reporting of new sites.

Special Management Designations or Considerations:

Elk and deer browse on regenerating deciduous seedlings and saplings has proven to be extreme in the past. Begin to introduce planted pine into areas of medium to high site quality where natural regeneration efforts have failed to sufficiently restock stands with more desirable northern hardwood regeneration.

Watershed and Fisheries Considerations:

No special considerations exist for this compartment.

Wildlife Habitat Considerations:

This compartment is an excellent opportunity to manage for wildlife. It is part of a multiple compartment, large scale block of public land providing contiguous wildlife pathways that are necessary for many of our large game animals such as elk and black bear. Habitat components of heavy aspen and oak provide food and cover for multiple species at a variety of age classes. We are working to maintain oak and other mast producing trees as well as keep a good age rotation of aspen in this compartment as well as adjacent compartments. Species which benefit from our management include white-tailed deer, black bear, elk, ruffed grouse, woodcock, and many other game and non-game species.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is more than five miles away, but there appears to be some good sand & gravel potential within the compartment. There has been very little oil & gas exploration in this area and no history of production within four miles of the compartment. There is currently no known oil & gas potential in this area, and there is no current mineral leasing activity. No known metallic mineral potential exists in this part of the state. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Excellent off of Royston Rd, but there are so many two-tracks that one easily becomes lost. It would be difficult to successfully block existing two-tracks with the amount of openings within this compartment.

Survey Needs:

None known.

Recreational Facilities and Opportunities:

Non-motorized recreation includes wildlife viewing, hunting, and mushroom picking. Most two-tracks are open to motorized recreational use.

Fire Protection:

Fire response to the compartment will be covered by the Atlanta and Onaway DNR offices as well as the Rogers City and Hillman Fire Departments.

Additional Compartment Information:**The following reports from the Inventory are attached:**

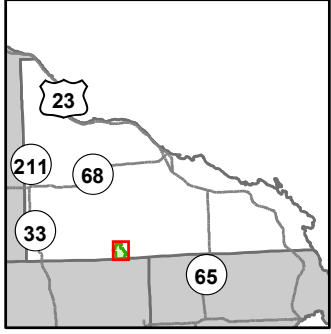
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

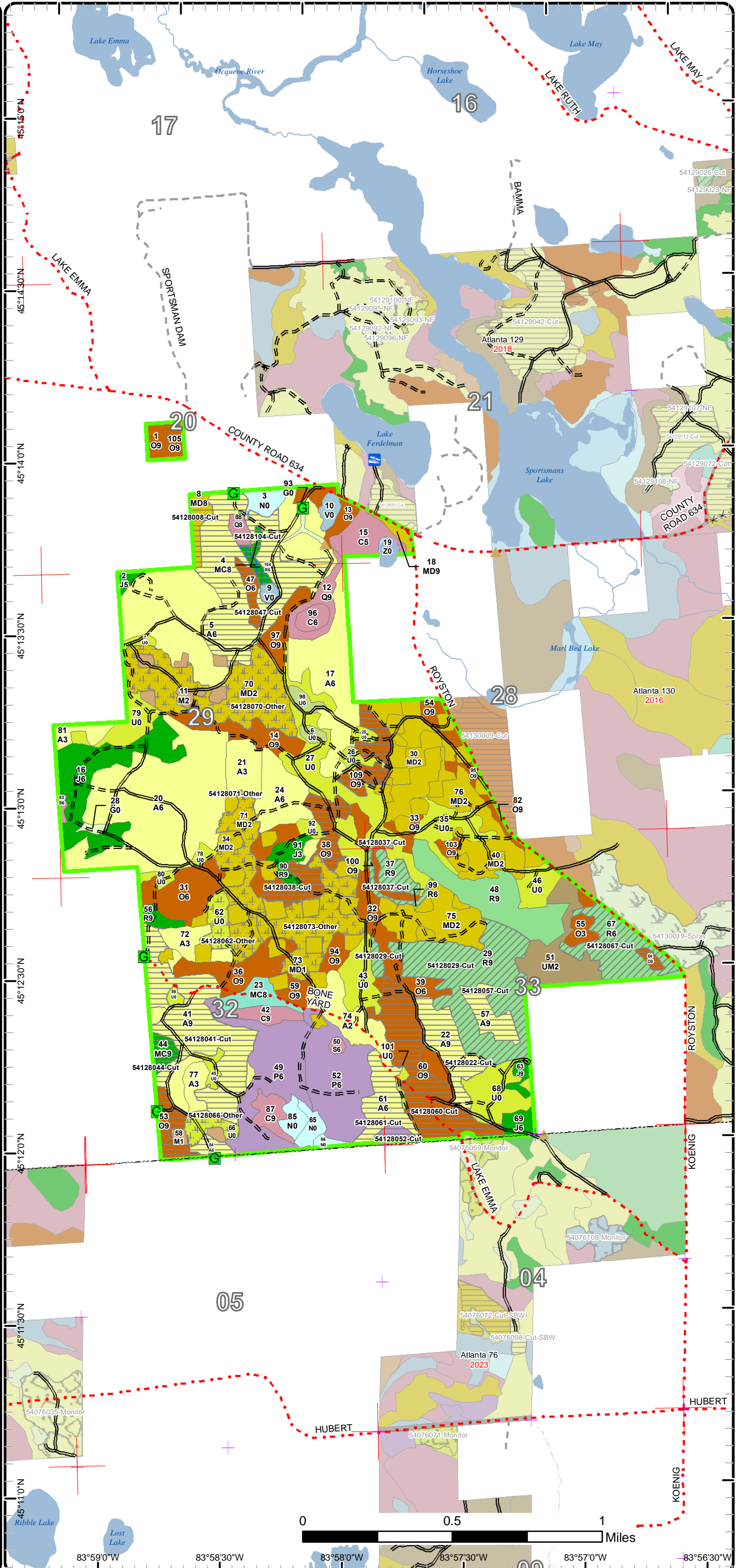
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 128
 T33N, R04E, Sec. 20, 21, 28, 29, 32, 33
 County: Presque Isle
 Unit: Atlanta
 Mgmt Area: Thunder Bay
 Outwash
 YOE: 2022
 Acres: 1,668 GIS Calculated
 Examiner: Darrick Coy
 Map Revised: 10/22/2020
 Map Phase: Post-Review

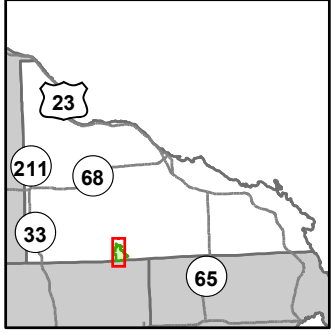


- Miris Corners
- ⊕ Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- .- County - Gravel Road
- - Private - Dirt / Gravel Road
- ×× Abandoned Railroads
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- ⓐ Gate
- ⓑ Boating Access Site
- Culvert
- ▭ Compartment Boundary
- ▭ Other Treatment - See Comments
- ▭ Clearcut (w/Reserves)
- ▭ Seed Tree (w/Reserves)
- ▭ Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 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
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

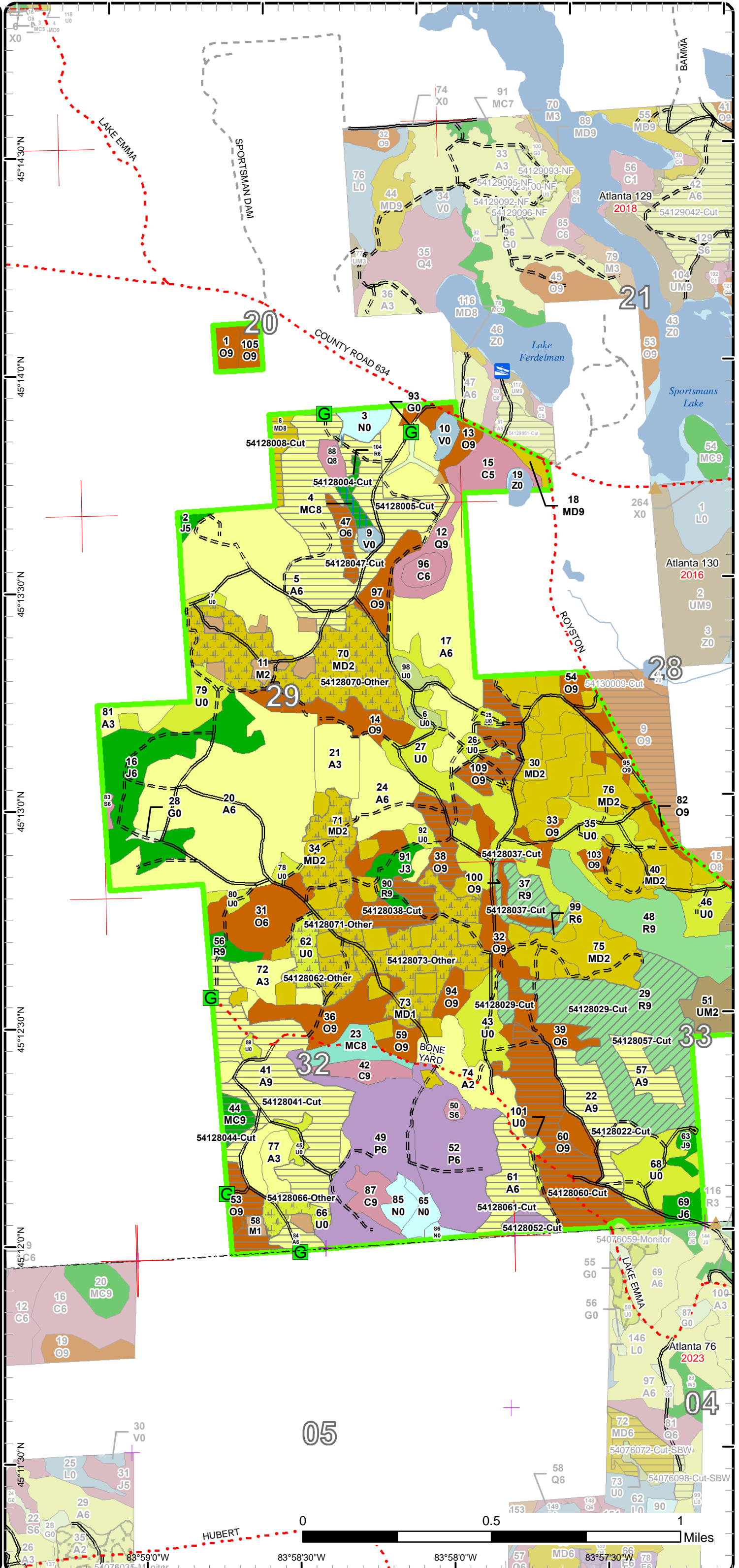


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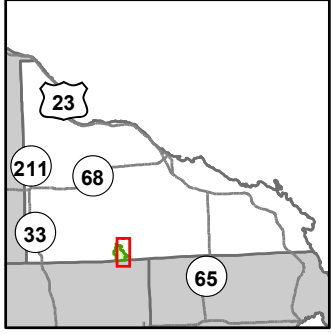


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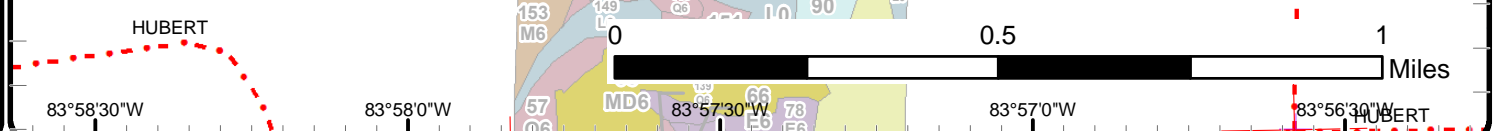
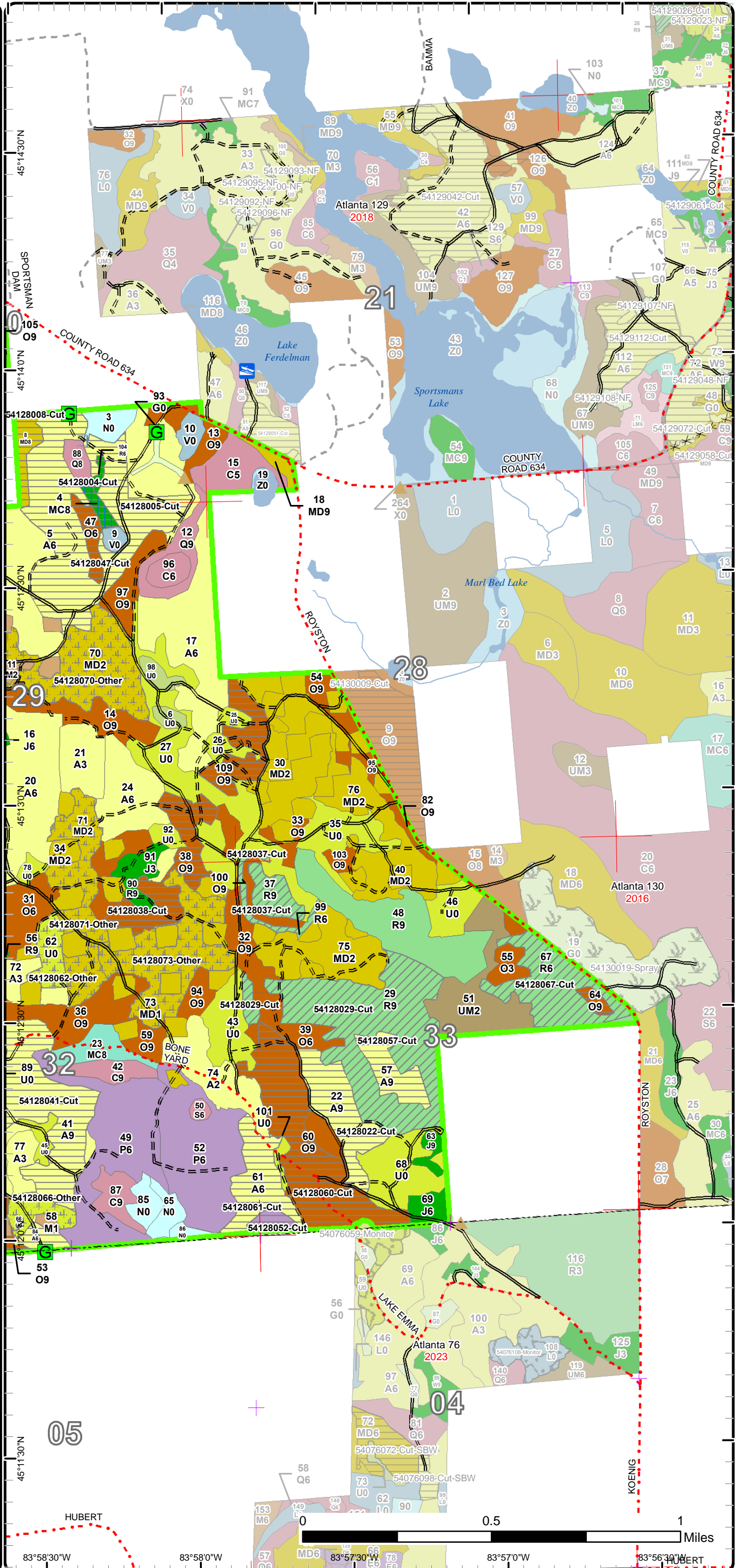


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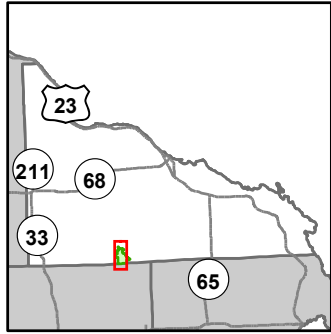


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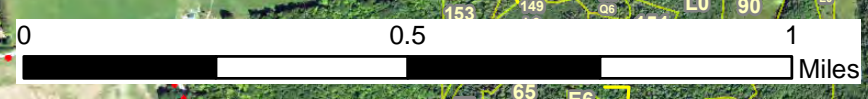
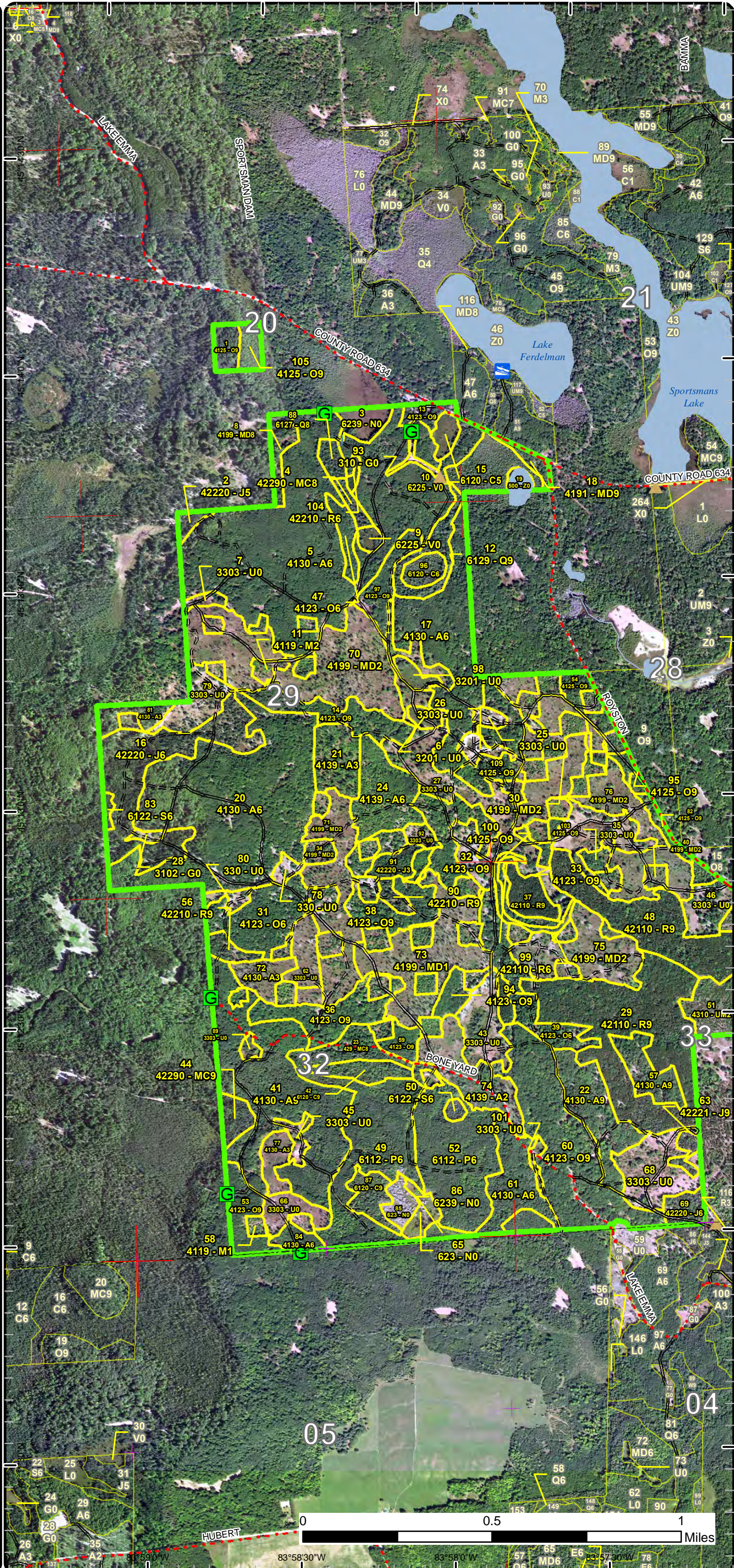


Stand Boundary Map

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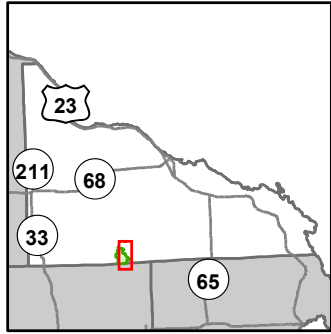
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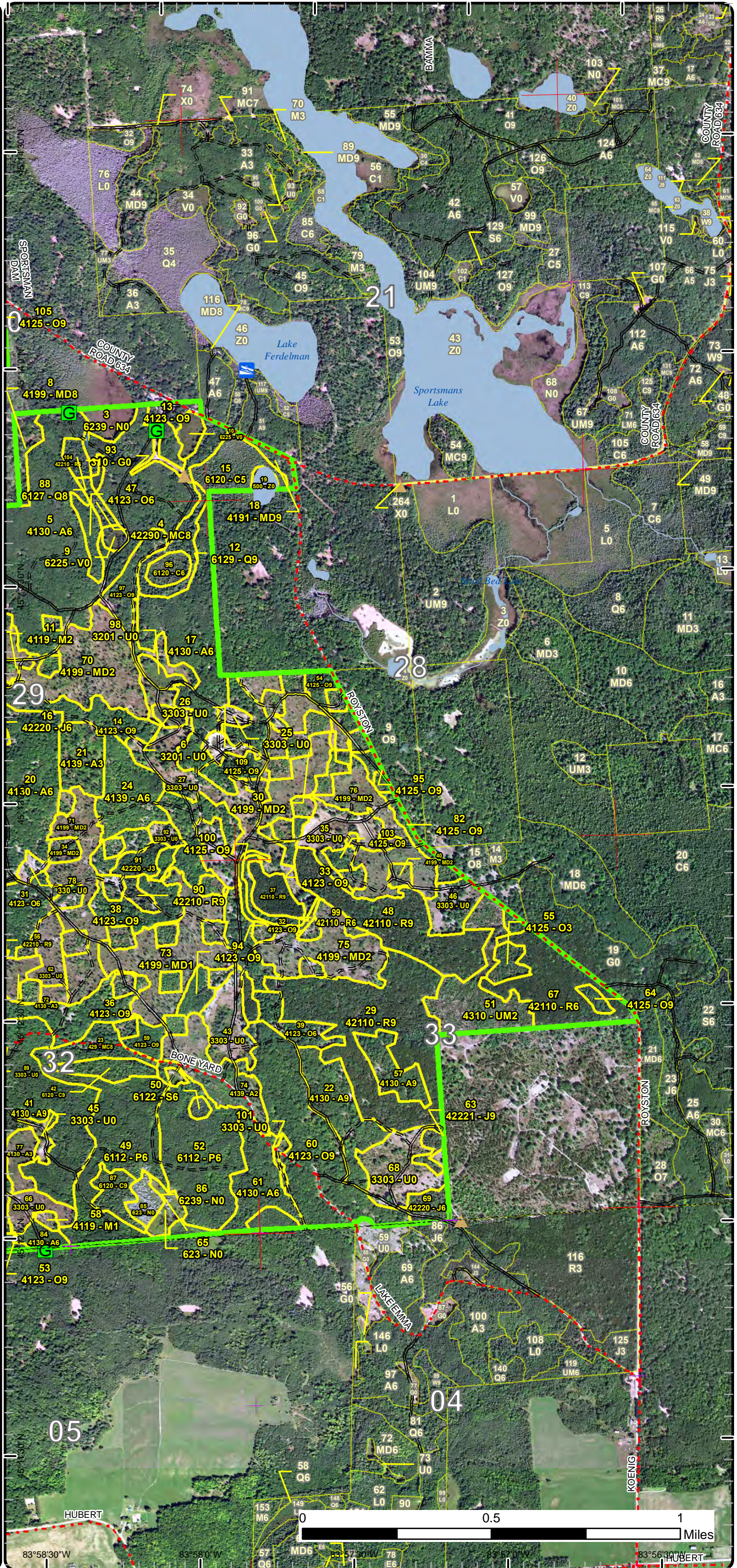
83°58'30"W 83°58'0"W 83°57'30"W

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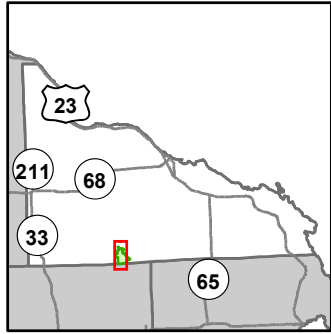
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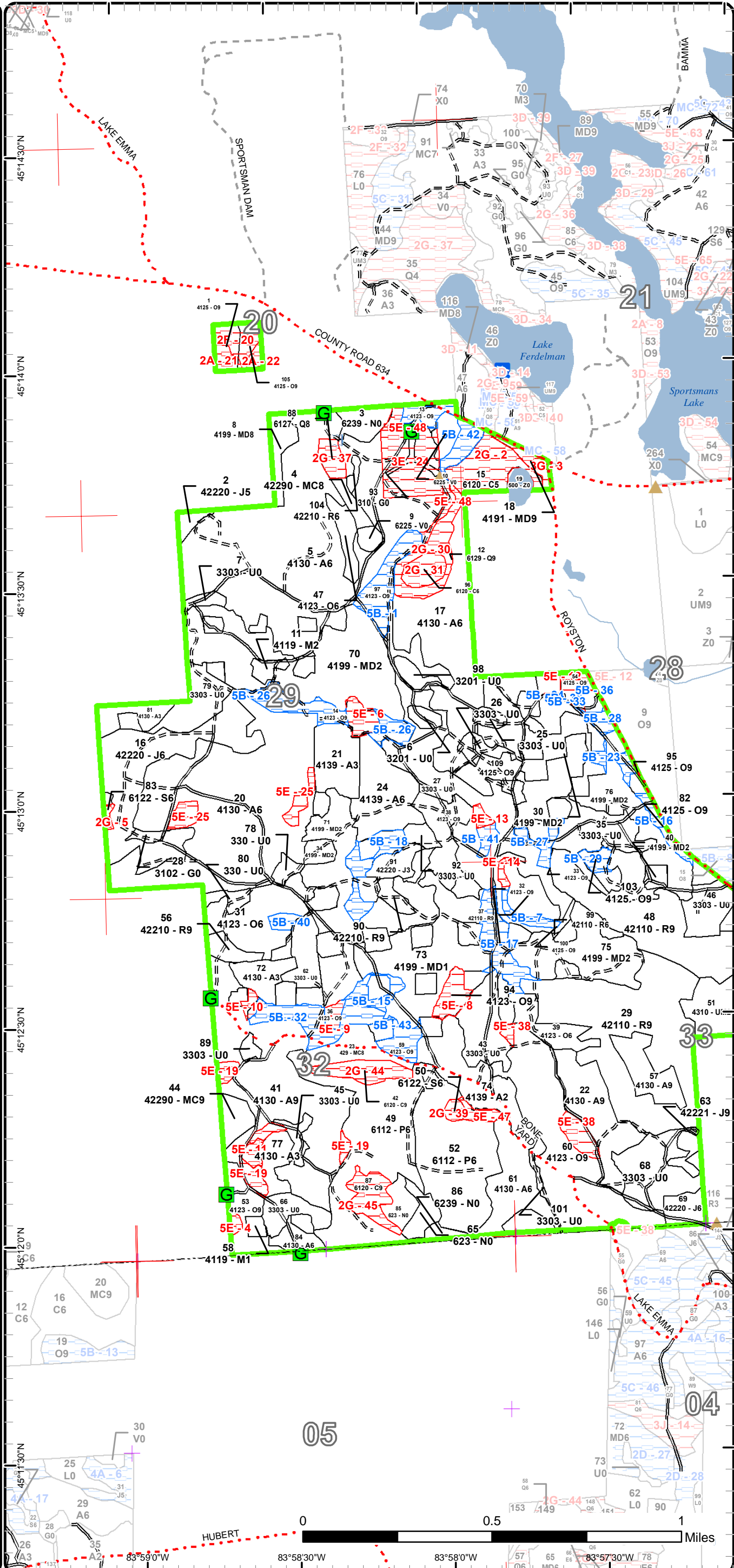
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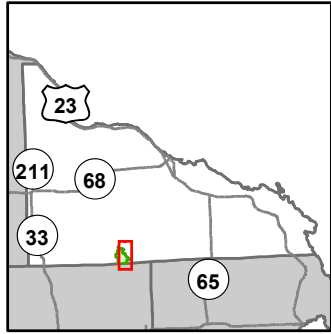


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 2A: Adjacent landowner denied access
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
- 3G: Other Influence zones - See comments
- 5E: Long-Term Retention
- Stand Boundaries

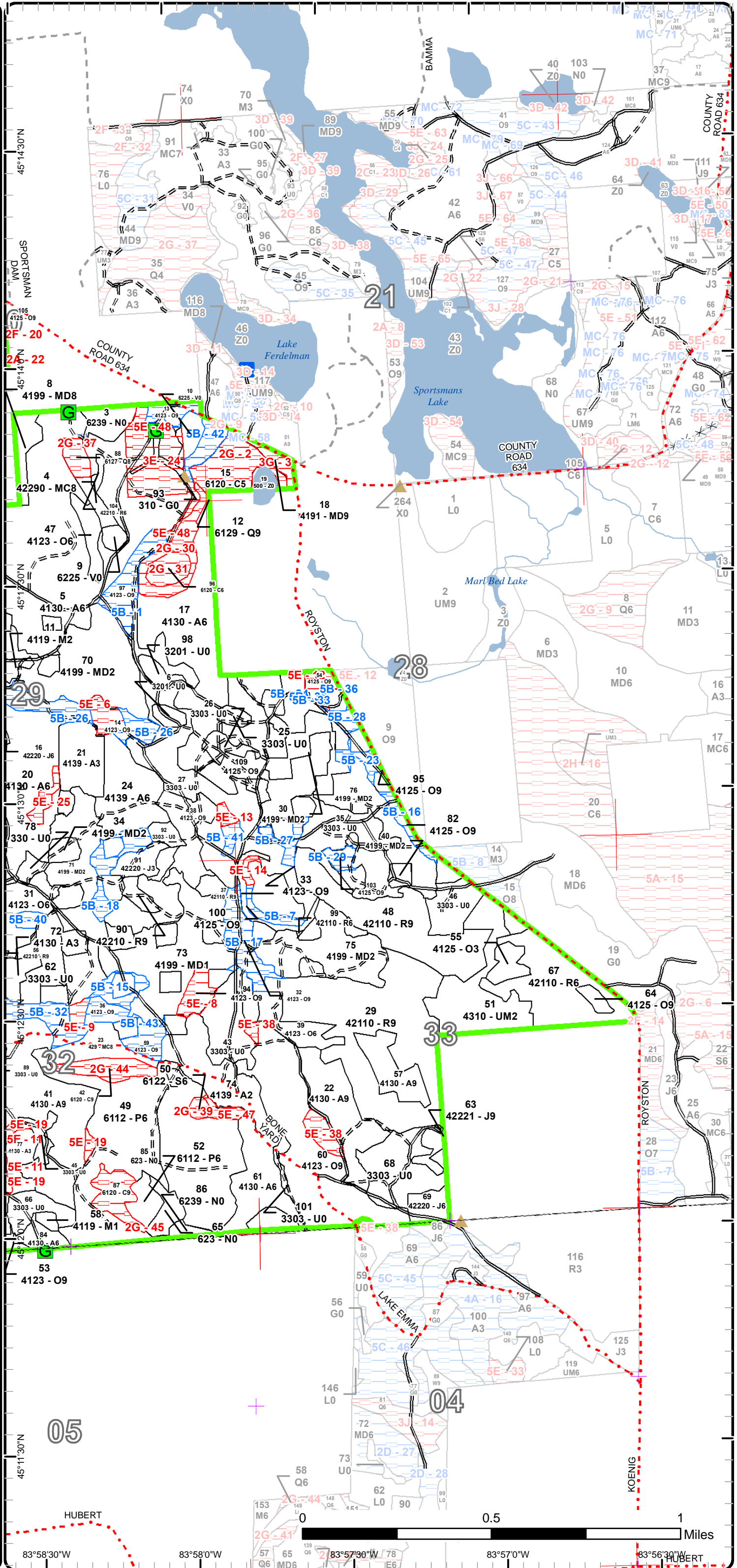


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 - Unavailable
- 5B: Maintain for regeneration purposes
 2G: Too wet (sensitive soils, does not include access issues)
 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
 3G: Other Influence zones - See comments
 5E: Long-Term Retention
- Stand Boundaries



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	36	13	23	159	149	125	0	0	0	0	0	0	0	0	0	0	0	504
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	0	0	0	0	8	13	14	0	0	0	0	34
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Jack Pine	0	0	0	5	42	6	6	0	0	0	0	0	0	0	0	0	0	0	58
Low-Density Trees	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	160
Lowland Aspen/Balsam Poplar	0	0	0	46	0	46	0	0	0	0	0	0	0	0	0	0	0	0	92
Lowland Conifers	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	10	14
Lowland Spruce/Fir	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	3
Marsh	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	195	76	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	280
Natural Mixed Pines	0	0	0	0	0	0	0	3	6	0	0	0	0	0	0	0	0	0	9
Northern Hardwood	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Oak	0	0	0	0	38	0	0	0	10	2	154	44	19	0	0	0	0	0	267
Red Pine	0	0	0	0	0	1	150	4	3	0	0	0	0	0	0	0	0	0	158
Upland Conifers	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Upland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	197	231	128	74	239	202	291	12	19	4	164	52	32	14	0	0	0	10	1664



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 128

Year of Entry: 2022

Acres of Harvest

Total Compartment Acres: 1,667

Commercial Harvest - 428
 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	191	0	0	0	0	0	0	0	0	191
Lowland Aspen/Balsam Poplar	4	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	7	0	0	0	0	0	0	0	0	7
Natural Mixed Pines	6	0	0	3	0	0	0	0	0	9
Oak	106	0	0	0	0	0	0	0	0	106
Red Pine	1	0	0	0	0	112	0	0	0	113
Total	314	0	0	3	0	112	0	0	0	429

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	429	0	0	0	0	0	134	0	0	563
Next Step	0	0	0	0	0	317	0	0	0	317
Total	429	0	0	0	0	317	134	0	0	879



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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:

4	54128004-Cut	3.0	42290 - Natural Mixed Pine	Sawtimber Medium	63	51-80	Harvest	Seed Tree with Retention	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> -leave 10-20 BA of pine and other tree species present</p> <p><u>Specs:</u> -concentrate on leaving primarily red pine and white pine -area retention already represented within portion to the north heavy to white pine (see site conditions layer) -keep equipment out of the narrow drainage along the west edge</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -any combination of aspen, pine, maple, oak, spruce, and fir of low to high stocking -a deciduous cover type is also acceptable</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
5	54128005-Cut	71.3	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> -clearcut (partial stand harvest)</p> <p><u>Specs:</u> -leave all white pine not to exceed a cumulative residual BA of 5 (if present) -leave 3-10% in retention pocket(s) (already excluded, see site conditions layer) -add grouse timber sale specification (recommend marking 1 log (or largest available) sized tree to fell and/or push over every 2 acres) -use police tower corners off survey to establish/paint boundaries (see compartment folder record)</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -any combination of aspen, maple, oak, fir, and pine of medium to high stocking</p> <p><u>Other Comment:</u> -will likely need to use arrow antenna to project corner locations off east survey corner found in swamp -could not locate police corners in the field during inventory</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
8	54128008-Cut	6.5	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	94	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> -clearcut</p> <p><u>Specs:</u> -leave all white pine not to exceed a cumulative residual BA of 5 (if present) -no other retention due to small stand size</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -any combination of aspen, maple, oak, 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 /2021</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
22 54128022-Cut	21.7	4130 - Aspen	Sawtimber Well	56	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<u>Prescription</u> -clearcut <u>Specs:</u> -leave all red pine and white pine not to exceed a cumulative residual BA of 10 (if present) -leave 3-10% in retention pocket(s) -add grouse timber sale specification (recommend marking 1 log sized tree to fell and/or push over every 2 acres) <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> -any combination of aspen, maple, oak, fir, and pine of medium to high stocking <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2021										
29 54128029-Cut	71.4	42110 - Planted Red Pine	Sawtimber Well	54	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> -cut every 3rd row (should not need to mark rows) <u>Specs:</u> -cut all jack pine, except a few along the sale boundary, to improve access within rows <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2021										
37 54128037-Cut	12.1	42110 - Planted Red Pine	Sawtimber Well	55	141-170	Harvest	Systematic Thinning	42110 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> -cut every 3rd row (should not need to mark rows) <u>Specs:</u> -cut all jack pine, if present, to improve access within rows <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2021										



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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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38	54128038-Cut	23.1	4123 - Red Oak	Sawtimber Well	95	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription -clearcut (partial stand harvest)
Specs: -leave all white pine not to exceed a cumulative residual BA of 10 (should not need to mark to leave)
 -3-10% in retention already excluded in untreated portion to the east
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: -any combination of aspen, maple, oak, fir, and pine of medium to high stocking
Other Comment:

Site Condition
Proposed Start Date: 10/1 /2021

41	54128041-Cut	63.1	4130 - Aspen	Sawtimber Well	59	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription -clearcut
Specs: -leave 1 white oak, and/or white pine every 1-2 acres
 -leave 3-10% in area retention (already excluded (see site conditions layer)
 -add grouse timber sale specification (recommend marking 1 log sized tree to fell and/or push over every 2 acres)
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: -any combination of aspen, maple, oak, fir, and pine of medium to high stocking
Other Comment:

Site Condition
Proposed Start Date: 10/1 /2021

44	54128044-Cut	5.7	42290 - Natural Mixed Pine	Sawtimber Well	73	81-110	Harvest	Clearcut with Retention	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
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Prescription -clearcut and leave 10-20% in area retention and other retention pockets to help with regenerating stand (select leaving areas that are less susceptible to blowdown and/or contain more red pine)
Specs:
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: -any combination of aspen, maple, oak, fir, spruce, and pine of low to high stocking
Other Comment:

Site Condition
Proposed Start Date: 10/1 /2021

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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
47 54128047-Cut	5.6	4123 - Red Oak	Poletimber Well	92	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> -clearcut <u>Specs:</u> -no area retention due to small stand size and steep terrain</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> -any combination of aspen, maple, oak, fir, and pine of medium to high stocking <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
52 54128052-Cut	3.7	6112 - Lowland Aspen	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> -clearcut (partial stand harvest) <u>Specs:</u> -area retention already excluded in parent stand (see site conditions layer) -add grouse timber sale specification (recommend marking 1 log sized tree to fell and/or push over every 2 acres)</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> -any combination of aspen, maple, oak, fir, and pine of medium to high stocking <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 1 /17/2020</p>										
53 54128053-Cut	10.2	4123 - Red Oak	Sawtimber Well	95	111-140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> -clearcut <u>Specs:</u> -leave retention pocket around advanced white pine and area of steeper terrain, already excluded (see site conditions layer)</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> -any combination of aspen, maple, oak, fir, and pine of medium to high stocking <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</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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57	54128057-Cut	11.4	4130 - Aspen	Sawtimber Well	56	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription -clearcut
Specs: -leave the 1-2 acre area heavy to advanced white oak under aspen out of the treatment and allow it convert (Use as area retention. Any excess area beyond 10% should be coded in the site conditions layer as retention for regeneration purposes.)
 -add grouse timber sale specification (recommend marking 1 log sized tree to fell and/or push over every 2 acres)
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable Regen: -any combination of aspen, maple, oak, fir, and pine of medium to high stocking
Other Comment:
Site Condition
Proposed Start Date: 10/1 /2021

60	54128060-Cut	49.0	4123 - Red Oak	Sawtimber Well	94	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription -clearcut
Specs: -leave all red pine and white pine not to exceed a cumulative residual BA of 10 (should not need to mark to leave, only a trace present)
 -leave 3-10% in retention pocket(s) (already excluded see site conditions layer)
Next Step Monitoring, Natural Regen (Intermediate)
Treatments:
Acceptable Regen: -any combination of aspen, maple, oak, fir, spruce, and pine of medium to high stocking
 -an aspen cover type is also acceptable
Other Comment:
Site Condition
Proposed Start Date: 10/1 /2021

61	54128061-Cut	19.0	4130 - Aspen	Poletimber Well	59	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription -clearcut
Specs: -leave all red pine and white pine not to exceed a cumulative residual BA of 10 (should not need to mark to leave, only a trace present)
 -leave 3-10% in retention pocket(s)
 -add grouse timber sale specification (recommend marking 1 log sized tree to fell and/or push over every 2 acres)
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable Regen: -any combination of aspen, maple, oak, fir, and pine of medium to high stocking
Other Comment:
Site Condition
Proposed Start Date: 10/1 /2021



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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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62	54128062-Other	8.4	3303 - Mixed Low Density Trees	Nonstocked	0	Unspecified	Other	Other	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription -Past clearcut failed to regenerate to minimum stocking
Specs: -Accept a lower acceptable stocking (small stand size incorporating other wildlife values through a natural opening with low density trees)
Next Step
Treatments:
Acceptable Regen: Acceptable regeneration is any combination of aspen, oak, jack pine, red pine, or white pine resulting in a medium or well stocked stand.
Other Comment:
Site Condition
Proposed Start Date: 10/1 /2021

64	54128064-Cut	2.2	4125 - Black, N. Pin Oak	Sawtimber Well	83	81-110	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription -clearcut
Specs: -no retention due to small stand size and to improve equipment access in surrounding row thinning treatment
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable Regen: -any combination of aspen, maple, oak, fir, spruce, and pine of medium to high stocking
Other Comment:
Site Condition
Proposed Start Date: 10/1 /2021

66	54128066-Other	7.6	3303 - Mixed Low Density Trees	Nonstocked	0	Unspecified	Other	Other	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription -Past clearcut failed to regenerate to minimum stocking level
Specs: -Accept a lower acceptable stocking (small stand size incorporating other wildlife values through a natural opening with low density trees)
Next Step
Treatments:
Acceptable Regen: Acceptable regeneration is any combination of aspen, oak, jack pine, red pine, or white pine resulting in a medium or well stocked stand.
Other Comment:
Site Condition
Proposed Start Date: 10/1 /2021



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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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67	54128067-Cut	28.5	42110 - Planted Red Pine	Poletimber Well	54	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Even-Aged	No
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Prescription -cut every 3rd row (should not need to mark rows)
Specs: -cut all jack pine, except a few along the sale boundary, to improve access within rows

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

70	54128070-Other	55.1	4199 - Other Mixed Upland Deciduous	Sapling Medium	5	Immature	Other	Other	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Add red maple as an acceptable species for this treatment during 2022 YOE compartment review. No additional follow-up is needed to be added and this treatment can be closed as meeting the mixed upland deciduous cover type objective.

Next Step
Treatments:

Acceptable Acceptable regeneration is any combination of aspen, oak, jack pine, red pine, or white pine resulting in a medium or well stocked stand.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

71	54128071-Other	28.3	4199 - Other Mixed Upland Deciduous	Sapling Medium	5	1-50	Other	Other	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Add red maple as an acceptable species for this treatment during 2022 YOE compartment review. No additional follow-up is needed to be added and this treatment can be closed as meeting the mixed upland deciduous cover type objective.

Next Step
Treatments:

Acceptable Acceptable regeneration is any combination of aspen, oak, jack pine, red pine, or white pine resulting in a medium or well stocked stand.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

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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
73 54128073-Other	34.9	4199 - Other Mixed Upland Deciduous	Sapling Poor	5	1-50	Other	Other	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Past clearcut failed to regenerate to minimum stocking of 600 TPA. Recommend accepting a lower stocking of 400 TPA. From the quantitative regeneration survey record, there is more than 200 TPA of seedlings and saplings under 6ft tall and 10-20 BA of residual scattered oak and pine that will eventually bring stocking up.</p> <p><u>Specs:</u></p> <p>*Add red maple as an acceptable species for this treatment during 2022 YOE compartment review.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any combination of aspen, oak, jack pine, red pine, or white pine resulting in a medium or well stocked stand.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
84 54128084-Cut	4.3	4130 - Aspen	Poletimber Well	47	81-110	Harvest	Clearcut	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> -clearcut</p> <p><u>Specs:</u> -no retention to maximize regeneration acreage -add grouse timber sale specification (recommend marking 1 log sized tree to fell and/or push over every 2 acres)</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -any combination of aspen, maple, oak, 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 /2021</p>										
104 54128104-Cut	1.2	42210 - Natural Red Pine	Poletimber Well	45	171-200	Harvest	Clearcut	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> -clearcut</p> <p><u>Specs:</u> -no retention due to small stand size and high stand density</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -any combination of aspen, maple, oak, fir, and pine of low to high stocking</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
109 54128109-Cut	15.5	4125 - Black, N. Pin Oak	Sawtimber Well	100	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> -clearcut <u>Specs:</u> -leave 3-10% in area retention <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> -any combination of aspen, maple, oak, fir, and pine of medium to high stocking <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment 562.8
Acreage Proposed:

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Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
506	472	0	34
6	6	0	1
34	0	0	34
3	2	0	2
59	59	0	0
160	159	0	0
92	90	0	2
13	0	0	13
3	0	0	2
19	19	0	0
281	277	0	4
9	9	0	0
12	12	0	0
268	143	91	34
159	159	0	0
10	10	0	0
27	27	0	0
6	6	0	0
2	2	0	0
1,667	1,450	91	126
	87%	5%	8%

Dominant Site Conditions

	5B	2A	2F	2G	3E	3G	5E
Aspen	0				15		19
Bog	0				1		
Cedar				34		0	0
Herbaceous Openland					2		0
Jack Pine	0						
Low-Density Trees	0						0
Lowland Aspen/Balsam Poplar				0			2
Lowland Conifers	0			13			
Lowland Spruce/Fir				2			0
Marsh							0
Mixed Upland Deciduous	0			0		3	0
Natural Mixed Pines				0			
Northern Hardwood							
Oak	91	4	6	0	0		24
Red Pine	0						
Upland Conifers							
Upland Mixed Forest							
Upland Shrub							
Water				0			
Total Forested Acres	91	4	6	50	17	3	46
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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5B: Maintain for regeneration purposes	10	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							

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2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3G: Other Influence zones - See comments	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 53 and part of the one-third-of-stand-acreage hedge against stand regeneration failure.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 70							
7	Available	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 73							

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9	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 71							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 72							
11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 76							
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 38							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention							
15	Available	5B: Maintain for regeneration purposes	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of the one-third-of-stand-acreage hedge against stand regeneration failure.							

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16	Available	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of the one-third-of-stand-acreage hedge against stand regeneration failure.							
17	Available	5B: Maintain for regeneration purposes	11	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5B: Maintain for regeneration purposes	8	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: Part of the one-third-of-stand-acreage hedge against stand regeneration failure.							
19	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 41							
20	Unavailable	2F: Too steep	6	(Inactive)3I: Historical / archeological (add locked comments)	2A: Adjacent landowner denied access	Unspecified	Unspecified
Comments:							
21	Unavailable	2A: Adjacent landowner denied access	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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22	Unavailable	2A: Adjacent landowner denied access	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of the one-third-of-stand-acreage hedge against stand regeneration failure.							
24	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: police tower established in 2001							
25	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -areas left as retention for stand 20							
26	Available	5B: Maintain for regeneration purposes	12	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of the one-third-of-stand-acreage hedge against stand regeneration failure.							

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28	Available	5B: Maintain for regeneration purposes	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of the one-third-of-stand-acreage hedge against stand regeneration failure.							
29	Available	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of the one-third-of-stand-acreage hedge against stand regeneration failure.							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Available	5B: Maintain for regeneration purposes	13	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	5B: Maintain for regeneration purposes	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of the one-third-of-stand-acreage hedge against stand regeneration failure.							

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34	Available	5B: Maintain for regeneration purposes	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of the one-third-of-stand-acreage hedge against stand regeneration failure.							
35	Available	5B: Maintain for regeneration purposes	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of the one-third-of-stand-acreage hedge against stand regeneration failure.							
36	Available	5B: Maintain for regeneration purposes	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of the one-third-of-stand-acreage hedge against stand regeneration failure.							
37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 60 in part							
39	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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40	Available	5B: Maintain for regeneration purposes	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Available	5B: Maintain for regeneration purposes	2	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: Part of the one-third-of-stand-acreage hedge against stand regeneration failure.							
42	Available	5B: Maintain for regeneration purposes	9	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
43	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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45	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 52							
48	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 5							

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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
1	4125 - Black, N. Pin Oak	Sawtimber Well	5.1	79	81-110	N/A	May be steep in places.																																																													
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2	42220 - Natural Jack Pine	Poletimber Medium	2.5	57	51-80	N/A	Painted witness trees and GPS corner																																																													
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3	6239 - Mixed Emergent Wetland	Nonstocked	6.4			No	cattails and bog mix																																																													
4	42290 - Natural Mixed Pine	Sawtimber Medium	3.1	63	51-80	N/A	-mixed pine, small drainage into stand from north along west edge -17 inch rp was 62 yrs, high grow rate with high water and wide spacing																																																													
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5	4130 - Aspen	Poletimber Well	144.1	46	81-110	N/A	-past treatment- clearcut-sale number- 109-74 permit-acres- 40-leave trees- none, areas of oak marked out-volume (cde)- aspen 360, oak 176, jp 66-completion- 7-12-76-past treatment- clearcut-sale number- 109-75 permit-acres- 75-leave trees- 1 oak every 100ft-volume (cde)- -completion- 4-15-74																																																													
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6	3201 - Sweet Fern	Nonstocked	2.5			No																																																														
7	3303 - Mixed Low Density Trees	Nonstocked	2.2		Unspecified	No																																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
8	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	6.5	94	51-80	N/A	-painted witness trees and located west line survey corners-red pine mostly in south		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Pole	5		Red Maple	High	Variable	Sapling
Bigtooth Aspen		15	Pole	5	46	White Pine	Low	Variable	Sapling
Red Oak		51	Log/XLog	17	94				
Red Pine		7	Log	15					
Jack Pine		5	Pole/Log	8					
White Pine		2	Log	12					
9	6225 - Bog	Nonstocked	2.3			No			
10	6225 - Bog	Nonstocked	4.0		Unspecified	No			
11	4119 - Mixed Northern Hardwoods	Sapling Medium	9.0	16	1-50	N/A	-past treatment- 5 spot clearcuts, protected adv oak and pine regen -sale number- 54-027-02-01 -acres- 79 (stands 11, 30, 34, 40, & 58) -leave trees- oak -volume (cds)- bta 9.4 mbf, 89 cds, rp .6 mbf, 11 cds, mo 62.1 mbf, 732 cds, rm 169 cds, jp 18 cds (stands 11, 30, 34, 40, & 58) -completion- 2004		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		70	Sapling	2	16	Black Cherry	Medium	Variable	Sapling
Bigtooth Aspen		5	Sapling	4					
Red Oak		10	Sapling	2					
White Pine		12	Sapling	4					
Red Pine		3	Sapling	3					
12	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	9.7	99	111-140	N/A	too wet, hard to calculate cover, very mixed		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		15	Pole	8		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar		15	Log/Pole	10	122	Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine		20	XLog/Log	19		Black Ash	Low	Variable	Sapling
Black Spruce		20	Pole	8		Red Maple	Medium	Variable	Sapling
Tamarack		30	Pole/Log	9	99				
13	4123 - Red Oak	Sawtimber Well	9.1	92	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		3	Log/Pole	12		Red Pine	Low	Variable	Sapling
White Oak		5	Log/Pole	11		White Pine	Medium	Variable	Sapling
Red Pine		2	Log/Pole	12		Balsam Fir	Low	Variable	Sapling
White Pine		20	Log/Pole	11					
Red Oak		70	Log/Pole	13	92				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
14	4123 - Red Oak	Sawtimber Well	15.8	95	81-110	N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	15	Pole	8				
Red Oak	74	Log	12	95			
White Oak	2	Pole	8				
White Pine	4	Pole/Log	9				
Bigtooth Aspen	5	Log/Pole	11				
Sub-Canopy Species	Density	Avg. Height	Size				
White Pine	Medium	Variable	Sapling				
White Oak	Low	Variable	Sapling				
Red Maple	Medium	Variable	Sapling				
Red Oak	Low	Variable	Sapling				
15	6120 - Lowland Cedar	Poletimber Medium	13.5	128	51-80	N/A	cedar with weak crowns, other smaller conifers filling in
Canopy Species	% Cover	Size Class	DBH	Age			
Tamarack	10	Sapling/Pole	3				
White Pine	3	Pole	7				
Balsam Fir	17	Sapling/Pole	3				
Black Spruce	20	Sapling/Pole	3				
Northern White Cedar	50	Pole/Sapling	7	128			
Sub-Canopy Species	Density	Avg. Height	Size				
Tag Alder	Medium	5 - 10 feet	Tall Shrub				
Black Spruce	Medium	Variable	Sapling				
Balsam Fir	Medium	Variable	Sapling				
16	42220 - Natural Jack Pine	Poletimber Well	42.0	33	51-80	N/A	-past treatment- clearcut-sale number- 54-021-02-01-acres- 118 (stands 16, 20, 23, 82, 83, and 31)-leave trees- white oak in north half-volume (cds)- mixed oak 924, aspen 621, rm 88, jp 200, and ro mbf 54 (stands 16, 20, 23, 82, 83, and 31)-completion- 09/16/86-oddly large diameters for age but confirmed in field, bored a tree-most of the red pine is within the south leg that was treated as an inclusion due to it being less than 5 acres
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	5	Sapling/Pole	4				
Bigtooth Aspen	15	Pole/Sapling	5				
Jack Pine	75	Pole/Log	8	33			
Red Pine	5	Log	14	63			
Sub-Canopy Species	Density	Avg. Height	Size				
Cherry (spp.)	Medium	5 - 10 feet	Tall Shrub				
White Pine	Low	Variable	Sapling				
White Oak	Low	Variable	Sapling				
Red Maple	Low	Variable	Sapling				
17	4130 - Aspen	Poletimber Well	44.3	37	51-80	N/A	-past treatment- clearcut-sale number- 045-82a-acres- 40 (stands 17 and 22)-leave trees- none-volume (cds)- mixed oak 176 cds, ro 12 mbf, aspen 37 mbf, 362 cds, rm 48 cds, jp 52 cds, rp 2.6 mbf (stands 17 and 22)-completion- 6/1/83
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	13	Pole/Sapling	5				
White Pine	5	Log/Pole	10				
Bigtooth Aspen	63	Pole/Sapling	6	37			
Red Oak	15	Pole	7				
White Oak	2	Pole/Sapling	6				
Jack Pine	2	Pole	7				
Sub-Canopy Species	Density	Avg. Height	Size				
Black Cherry	Medium	5 - 10 feet	Sapling				
Red Maple	High	Variable	Sapling				
Red Oak	Low	Variable	Sapling				
White Oak	Low	Variable	Sapling				
18	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	3.4	96	81-110	N/A	Steep and of visual concern.
Canopy Species	% Cover	Size Class	DBH	Age			
Bigtooth Aspen	30	Log	11	96			
Red Oak	30	Log	15				
White Pine	30	Pole	8				
White Pine	5	XLog	21				
Red Pine	5	XLog/Log	18				
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Medium	Variable	Sapling				
White Pine	Medium	Variable	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19 500 - Water Nonstocked 2.2 Unspecified No

20 4130 - Aspen Poletimber Well 108.4 33 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	11	Sapling	4	
Bigtooth Aspen	65	Pole/Sapling	5	33
Red Oak	5	Log	14	
White Pine	2	Log	13	
Jack Pine	5	Sapling	4	
Red Oak	5	Pole	5	
Red Pine	2	Log	14	
Black/Red (Hybrid) Oak	5	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	Variable	Sapling
White Oak	Low	Variable	Sapling
Black Cherry	Medium	Variable	Sapling
White Pine	Low	Variable	Sapling

-past treatment- clearcut-sale number- 54-021-02-01-acres- 118 (stands 16, 20, 23, 82, 83, and 31)-leave trees-scattered red oak and white oak in north half-volume (cda)- mixed oak 924, aspen 621, rm 88, jp 200, and ro mbf 54 (stands 16, 20, 23, 82, 83, and 31)-completion-09/16/86

21 4139 - Aspen, Mixed Deciduous Sapling Well 13.4 13 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Sapling	1	
Bigtooth Aspen	41	Sapling	2	13
Red Oak	12	Log	15	95
White Pine	2	Log	12	
White Oak	5	Sapling	1	

-past treatment- seed-tree cut (10-25 BA of oak)
-sale number- 54-011-05-01
-acres- 12
-leave trees- oak
-volume- rm .4mbf, 71 cds, bta 54.7 mbf, 138 cds
-completion- 11/28/06
-looks like majority of saplings are rm but it is a mix

22 4130 - Aspen Sawtimber Well 21.7 56 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	8	Pole	8	
Bigtooth Aspen	80	Pole/Log	9	56
Red Oak	10	Log/XLog	14	94
White Oak	2	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	Variable	Sapling
White Pine	Low	Variable	Sapling
White Oak	Medium	Variable	Sapling
Red Oak	Medium	Variable	Sapling

23 429 - Mixed Upland Conifers Sawtimber Medium 9.8 56 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	9	
Red Oak	25	Log/XLog	16	103
White Pine	47	Log/Pole	10	56
Balsam Fir	15	Pole	7	
Red Pine	3	Log/XLog	17	

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

-mostly small log wp with scattered large crowned oak



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
24	4139 - Aspen, Mixed Deciduous	Poletimber Well	22.9	27	51-80	N/A	-past treatment- clearcut, winter cut only -sale number- 54-029-92-01 -acres- 32 (stands 24 and 91) -leave trees- none -volume (cds)- ro 12 mbf, 140 cds, jp 137 cds, bta 225 cds, mhwd 114 cds -completion- 3/10/93																																														
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28	3102 - Grass	Nonstocked	1.5		Unspecified	No																																															
29	42110 - Planted Red Pine	Sawtimber Well	71.5	54	141-170	N/A	-planting record for 1960-2 bored tree samples put the age closer to 54 years old, using current age																																														
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36	4123 - Red Oak	Sawtimber Well	18.8	110	51-80	N/A	-stand is along a side hill-cored an oak of similar age, no change-dieback in 10-15% of oak trees/crowns																																																											
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38	4123 - Red Oak	Sawtimber Well	34.3	95	81-110	N/A	Part of the one-third-of-stand-acreage hedge against stand regeneration failure.																																																											
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39	4123 - Red Oak	Poletimber Well	9.2	35	51-80	N/A	north half- wo 13 log/p 5%, rm 7in pole 10%, wp 11 l/p 15%, b/r oak 70% 14 in log, 101 years, sub m wp, m wo, l b/r oak, l rm, 80-110																																																											
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40	4199 - Other Mixed Upland Deciduous	Sapling Medium	6.2	16	1-50	N/A	-past treatment- 5 spot clearcuts, protected adv oak and pine regen -sale number- 54-027-02-01 -acres- 79 (stands 11, 30, 34, 40, & 58) -leave trees- oak -volume (cds)- bta 9.4 mbf, 89 cds, rp .6 mbf, 11 cds, mo 62.1 mbf, 732 cds, rm 169 cds, jp 18 cds (stands 11, 30, 34, 40, & 58) -completion- 2004																																																											
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41	4130 - Aspen	Sawtimber Well	72.5	59	81-110	N/A																																																											
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42	6120 - Lowland Cedar	Sawtimber Well	7.3	113	141-170	N/A	-a few legacy wp present-structure and species rich with some traces of hemlock in subcanopy to east-drainageway flows through stand-heavy to cedar in middle and west and wp to east																																																										
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43	3303 - Mixed Low Density Trees	Nonstocked	14.6			No																																																											
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44	42290 - Natural Mixed Pine	Sawtimber Well	5.6	73	81-110	N/A	-cored 2 trees and took average, 80 and 65 yrs-transitional hydrology																																																										
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45	3303 - Mixed Low Density Trees	Nonstocked	3.4		Unspecified	No																																																											
46	3303 - Mixed Low Density Trees	Nonstocked	9.9			No	Stand swapped from Forested to Non-Forested.																																																										



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47	4123 - Red Oak	Poletimber Well	5.6	92	81-110	N/A	-past treatment- clearcut-sale number- 109-74 permit-acres- 40-leave trees- none, areas of oak marked out-volume (cgs)- aspen 360, oak 176, jp 66-completion- 7-12-76-past treatment- clearcut-sale number- 109-75 permit-acres- 75-leave trees- 1 oak every 100ft-volume (cgs)- -completion- 4-15-74			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		3	Log/Pole	12		Red Maple		High	Variable	Sapling
Red Oak		92	Log/Pole	13	92	White Pine		Low	Variable	Sapling
White Oak		5	Log/Pole	13		Balsam Fir		Low	Variable	Sapling
48	42110 - Planted Red Pine	Sawtimber Well	36.7	55	111-140	N/A	-planting record for 1960 -past treatment- 3rd row thin, cut all aspen, oak, rm within rows -sale number- 54-016-04-01 -acres- 33 -leave trees- BA post harvest 100-105 in 2006 -volume (cgs)- rp 12.1 mbf, 267 cgs, jp 40 cgs, mo 31 cgs, mhwd 13 cgs -completion- 2006			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		5	Log	13		Red Oak		Low	< 5 feet	Sapling
Red Pine		95	Log/Pole	10	55	White Oak		Low	< 5 feet	Sapling
						Black Cherry		Medium	5 - 10 feet	Sapling
49	6112 - Lowland Aspen	Poletimber Well	45.9	24	51-80	N/A	-past treatment- clearcut, winter cut only-sale number- 54-034-92-01-acres- 61 (stands 49, 56, and 62)-leave trees- cedar-volume (cgs)- aspen 13 mbf, 812 cgs, mixed pine 20 mbf, mixed softwood 220 cgs, mixed hwd 205, mixed oak 48 cgs (stands 49, 56, and 62)-completion- 6/27/96			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		15	Sapling/Pole	4	24	Tag Alder		Medium	10 - 20 feet	Tall Shrub
Balsam Poplar		10	Pole/Sapling	5		Balsam Fir		Medium	Variable	Sapling
Balsam Fir		10	Pole/Sapling	5		Red Maple		High	Variable	Sapling
Quaking Aspen		55	Pole/Sapling	5	24	Black Cherry		Low	Variable	Sapling
Paper Birch		5	Pole/Sapling	5		White Pine		Low	Variable	Sapling
Northern White Cedar		5	Log	13						
50	6122 - Black Spruce	Poletimber Well	1.6	83	81-110	N/A	possibly too wet			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		100	Pole	8	83	Black Spruce		Low	Variable	Sapling
51	4310 - Pine, Oak Mix	Sapling Medium	26.5	16	1-50	N/A	-past treatment- clearcut-sale number- 54-029-02-01-acres- 36 (stands 51 and 55)-leave trees- rp over 10 inches and protected oak and pine regeneration-volume (cgs)- jp 24.6 mbf, 285 cgs, bta 70 cgs, mo 63 cgs, rm 19 cgs, -completion- 7/1/04			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Sapling	2	26	Cherry (spp.)		Medium	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak		15	Sapling	2						
Jack Pine		55	Sapling	2	16					
Bigtooth Aspen		15	Sapling	1						
White Oak		5	Sapling	2						
52	6112 - Lowland Aspen	Poletimber Well	46.2	45	81-110	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		15	Pole/Sapling	5	43	Red Maple		High	10 - 20 feet	Sapling
Quaking Aspen		69	Pole	7	45	Balsam Fir		High	Variable	Sapling
Balsam Fir		10	Pole	5		Tag Alder		Medium	10 - 20 feet	Tall Shrub
Northern White Cedar		5	Log/Pole	11						
Red Pine		1	XLog	22						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
53	4123 - Red Oak	Sawtimber Well	11.3	95	111-140	N/A	-residual is probably close to 140, overstocked -skinny crowned oak-operable slopes																																									
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57	4130 - Aspen	Sawtimber Well	11.4	56	51-80	N/A																																										
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58	4119 - Mixed Northern Hardwoods	Sapling Poor	3.0	16	1-50	N/A	barely 25% if counting spots which where less than 1 acre in size. -past treatment- 5 spot clearcuts, protected adv oak and pine regen -sale number- 54-027-02-01 -acres- 79 (stands 11, 30, 34, 40, & 58) -leave trees- oak -volume (cds)- bta 9.4 mbf, 89 cds, rp .6 mbf, 11 cds, mo 62.1 mbf, 732 cds, rm 169 cds, jp 18 cds (stands 11, 30, 34, 40, & 58) -completion- 2004																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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59	4123 - Red Oak	Sawtimber Well	4.9	95	81-110	N/A	-better site quality, especially in the east 1/3rd, medium-high wp in subcanopy
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	8	Pole	8	
Bigtooth Aspen	5	Log	13	
Black/Red (Hybrid) Oak	15	Log/Pole	11	95
Red Oak	67	Log/Pole	12	95
White Oak	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Red Maple	High	Variable	Sapling
Balsam Fir	Low	Variable	Sapling

60	4123 - Red Oak	Sawtimber Well	54.2	94	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	7	
Bigtooth Aspen	15	Log	12	
Red Oak	74	Log	13	94
White Pine	3	Pole	7	
Red Pine	1	Log	16	
White Oak	2	Log	10	

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

61	4130 - Aspen	Poletimber Well	19.0	59	81-110	N/A	-heavy to fir in southwest
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	7	
Quaking Aspen	58	Pole/Log	9	59
Balsam Fir	15	Pole	8	
Bigtooth Aspen	10	Pole/Log	8	
Red Pine	1	XLog	22	
White Pine	1	XLog	33	
Red Oak	5	Log/XLog	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Balsam Fir	High	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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62	3303 - Mixed Low Density Trees	Nonstocked	8.4	0	Unspecified	4199 - Other Mixed Upland Deciduous	-past treatment- clearcut -sale number- 54-030-12-01 -acres- 46 (stands 62, 71, and 72) -leave trees- rp, wp, wo, cedar, and green paint -volume- wo 1.1 mbf, 17 cds, bta 5 mbf, 8 cds, mo 56.8 mbf, 442 cds, rm 180 cds (stands 71 and 72) -completion- 2014			
							Sub-Canopy Species	Density	Avg. Height	Size
							Black/Red (Hybrid) Oak	Low	>20 feet	Log
							White Pine	Low	>20 feet	Pole
Red Pine	Low	>20 feet	Log							
							-conducted quantitative plot regeneration survey on 1/7/20 -see compartment folder for actual regeneration survey record -9 plots, this stand has regenerated to 50-75% canopy coverage with the following 6+ ft tall seedling/sapling mix: red maple= 78 TPA= 15% oak= 33 TPA= 6% red pine= 22 TPA= 4% white pine= 22= 4% aspen= 367 TPA= 70% Total TPA= 522			

63	42221 - Natural Jack Pine, Mixed Deciduous	Sawtimber Well	3.2	55	81-110	N/A	North End all Jack Pine, South and mostly bigtooth Aspen
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	35	Log	11		Red Oak	Medium	Variable	Sapling
White Pine	5	Log/Pole	10		Serviceberry (Juneberry)	Medium	Variable	Sapling
Jack Pine	60	Log/Pole	10	55	White Pine	Low	Variable	Sapling
					Black Cherry	Low	Variable	Sapling
					White Oak	Trace	5 - 10 feet	Sapling

64	4125 - Black, N. Pin Oak	Sawtimber Well	2.2	83	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	15	Log/Pole	10	56	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	62	Log	13	83	White Oak	Medium	Variable	Sapling
Red Pine	8	Pole	7		Red Pine	Medium	Variable	Sapling
Jack Pine	15	Pole	9					

65	623 - Emergent Wetland	Nonstocked	5.1			No	-according to map, this area was clearcut with the following sale, possibly flooded after cut: -past treatment- clearcut, winter cut only -sale number- 54-034-92-01 -acres- 61 (stands 49, 56, and 62) -leave trees- cedar -volume (cds)- aspen 13 mbf, 812 cds, mixed pine 20 mbf, mixed softwood 220 cds, mixed hwd 205, mixed oak 48 cds (stands 49, 56, and 62) -completion- 6/27/96
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
66	3303 - Mixed Low Density Trees	Nonstocked	7.6	0	Unspecified	4199 - Other Mixed Upland Deciduous	-past treatment- clearcut -sale number- 54-030-12-01 -acres- 14 -leave trees- rp, wp, wo, cedar, and green paint -volume- bta 12.5 mbf, 74 cds, mo 31.9 mbf, 177 cds, rm 12 cds -completion- 2014 -s half is very poorly stocked with significant browse on stumps -around 80% of existing deciduous regeneration is being held below 3 ft																																												
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67	42110 - Planted Red Pine	Poletimber Well	29.9	54	171-200	N/A	-planting record for 1960-2 bored tree samples put the age closer to 54 years old, using current age 1/4-1/6 live crown																																												
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69	42220 - Natural Jack Pine	Poletimber Well	5.7	40	51-80	N/A	-past treatment- clearcut-sale number- 21-78-acres- 3-leave trees- none-volume (cds)- jp 40 cds-completion- 11-17-78																																												
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70	4199 - Other Mixed Upland Deciduous	Sapling Medium	55.1	5	Immature	N/A	-past treatment- clearcut -sale number- 54-030-12-01 -acres- 54 -leave trees- rp, wp, wo, cedar, and green paint -volume- wo 1 mbf, 42 cds, bta 4 mbf, 37 cds, mo 124.7 mbf, 518 cds, rm 108 cds -completion- 2014 -conducted quantitative plot regeneration survey on 1/7/20 -see compartment folder for actual regeneration survey record -27 plots, this stand has regenerated to 50-75% canopy coverage with the following 6+ ft tall seedling/sapling mix: red maple= 304 TPA= 56% oak= 52 TPA= 10% white pine= 44 TPA= 8% white oak= 15= 3% aspens= 130 TPA= 24% Total TPA= 545																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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71	4199 - Other Mixed Upland Deciduous	Sapling Medium	28.3	5	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	58	Sapling	2	5
Red Pine	1	Log/Pole	13	
Red Maple	30	Sapling	1	
White Pine	8	Sapling/Pole/Log	4	
Bigtooth Aspen	3	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Medium	< 5 feet	Sapling

-past treatment- clearcut
 -sale number- 54-030-12-01
 -acres- 46 (stands 71 and 72)
 -leave trees- rp, wp, wo, cedar, and green paint
 -volume- wo 1.1 mbf, 17 cds, bta 5 mbf, 8 cds, mo 56.8 mbf, 442 cds, rm 180 cds (stands 71 and 72)
 -completion- 2014

-low stocked patches throughout with high stocked patches
 -over half of regen is from protecting existing advanced regen
 -scattered pine left are slowly filling in low stocked area, pine seedlings less than 1ft present
 -just barely ever 50% cover, no large poorly stocked areas greater than 3 acres

-conducted quantitative plot regeneration survey on 1/7/20
 -see compartment folder for actual regeneration survey record
 -14 plots, this stand has successfully regenerated to 50-75% canopy coverage with the following 6+ ft tall seedling/sapling mix:

red maple= 164 TPA= 30%
 oak= 321 TPA= 58%
 white pine= 42 TPA= 8%
 red pine= 7= 1%
 aspen= 21 TPA= 3%

Total TPA= 555



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
72	4130 - Aspen	Sapling Well	9.7	5	Immature	N/A	<p>If regeneration fails, plant mixed white pine and red pine to act as nurse crop for oak.</p> <p>-past treatment- clearcut -sale number- 54-030-12-01 -acres- 46 (stands 71 and 72) -leave trees- rp, wp, wo, cedar, and green paint -volume- wo 1.1 mbf, 17 cds, bta 5 mbf, 8 cds, mo 56.8 mbf, 442 cds, rm 180 cds (stands 71 and 72) -completion- 2014</p> <p>-conducted quantitative plot regeneration survey on 1/7/20 -see compartment folder for actual regeneration survey record -9 plots, this stand has regenerated to 50-75% canopy coverage with the following 6+ ft tall seedling/sapling mix:</p> <p>red maple= 78 TPA= 15% oak= 33 TPA= 6% red pine= 22 TPA= 4% white pine= 22= 4% aspen= 367 TPA= 70%</p> <p>Total TPA= 522</p> <p>Notes: 56% of plots passed with 6+ ft in sapling/seedling height. 9 acres of poor stocking which needs to be discussed at compartment review to determine follow-up needs. Low stumps and minimal slash and competition (for the 9 acre area). Less than 10 BA of wp, rp, and oak was left.</p> <p>*Red maple regeneration has been added/approved as an acceptable species for this treatment during 2022 YOE compartment review. Additional follow-up may be needed to artificially regenerate a 9 acre area to a medium-high stocking level.</p>																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
73	4199 - Other Mixed Upland Deciduous	Sapling Poor	34.9	5	1-50	N/A	-past treatment- clearcut -sale number- 54-030-12-01 -acres- 54 (stands 73 and 74) -leave trees- rp, wp, wo, cedar, and green paint (10-20 BA) -volume- wo 15.9 mbf, 55 cds, bta 15.6 mbf, 117 cds, mo 92.9 mbf, 448 cds, rm 104 cds, bf 15 cds (stands 73 and 74) -completion- 2014 -low stocked patches throughout with high stocked patches -scattered pine left are slowly filling in low stocked area, pine seedlings less than 1ft present -no large poorly stocked areas greater than 3 acres -conducted quantitative plot regeneration survey on 1/7/20 -see compartment folder for actual regeneration survey record -17 plots, this stand has regenerated to 50-75% canopy coverage with the following 6+ ft tall seedling/sapling mix: red maple= 94 TPA= 24% oak= 124 TPA= 31% white pine= 53 TPA= 13% aspens= 129 TPA= 32% Total TPA= 400			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine	13	Sapling/Pole/Log	1			Black Cherry	Medium	< 5 feet	Sapling	
Red Pine	1	Log	14							
Red Maple	24	Sapling	1	5						
White Oak	11	Sapling/Pole/Log	1							
Bigtooth Aspen	31	Sapling	1	5						
Black/Red (Hybrid) Oak	20	Sapling	1							
74	4139 - Aspen, Mixed Deciduous	Sapling Medium	20.4	5	1-50	N/A	If regeneration fails, plant mixed white pine and red pine to act as nurse crop for oak. -past treatment- clearcut -sale number- 54-030-12-01 -acres- 54 (stands 73 and 74) -leave trees- rp, wp, wo, cedar, and green paint -volume- wo 15.9 mbf, 55 cds, bta 15.6 mbf, 117 cds, mo 92.9 mbf, 448 cds, rm 104 cds, bf 15 cds (stands 73 and 74) -completion- 2014 -conducted a walk-through on 1/9/20 and this stand has successfully regenerated to an aspen cover type of medium to high stocking			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple	25	Sapling	1			Black Cherry	Low	5 - 10 feet	Sapling	
Balsam Fir	5	Sapling/Pole	3							
Red Pine	2	Log/XLog	16							
White Pine	3	Pole	7							
Red Oak	5	Sapling	1							
White Oak	2	Log/Pole	13							
Bigtooth Aspen	58	Sapling	1	5						
75	4199 - Other Mixed Upland Deciduous	Sapling Medium	25.1	5	1-50	N/A	-past treatment- clearcut -sale number- 54-030-12-01 -acres- 25 -leave trees- rp, wp, wo, cedar, and green paint -volume- bta 10.8 mbf, 17 cds, mo 29.9 mbf, 243 cds, rm 19 cds -completion- 2014 -good abundance of white oak regeneration			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Oak	2	Log	12			Black Cherry	Medium	Variable	Sapling	
Red Oak	1	Log	13							
White Pine	1	Log	10							
Red Pine	5	Log	13							
Red Oak	25	Sapling	1							
Bigtooth Aspen	7	Sapling	1							
White Oak	20	Sapling	1							
Red Maple	35	Sapling	1	5						
Red Pine	2	Sapling	3							
White Pine	2	Sapling	3							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
76	4199 - Other Mixed Upland Deciduous	Sapling Medium	51.8	5	Immature	N/A	If regeneration fails, plant mixed white pine and red pine to act as nurse crop for oak.-past treatment- clearcut-sale number- 54-030-12-01- acres- 51-leave trees- rp, wp, wo, cedar, and green paint-volume- wo 17 cds, bta 3.3 mbf, 17 cds, mo 49.8 mbf, 458 cds, rm 222 cds- completion- 2014-conducted quantitative plot regeneration survey on 1/7/20-see compartment folder for actual regeneration survey record- 25 plots, this stand has regenerated to 50-75% canopy coverage with the following 6+ ft tall seedling/sapling mix:red maple= 364 TPA= 44%oak= 240 TPA= 29%pine= 20 TPA= 2%aspen= 208 TPA= 25%Total TPA= 832 Notes: 74% of plots passed with 6+ ft in sapling/seedling height. Medium coverage of cherry. 5% of coverage consists of 3-4 inch saplings. Some high stumps and terrain is rolling to flat.*Red maple regeneration has been added/approved as an acceptable species for this treatment during 2022 YOE compartment review. No additional follow-up is needed to be added and the survey can be closed as meeting the mixed upland deciduous cover type objective.																																										
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77	4130 - Aspen	Sapling Well	6.5	5	1-50	N/A	-past treatment- clearcut -sale number- 54-030-12-01 -acres- 14 -leave trees- rp, wp, wo, cedar, and green paint -volume- bta 12.5 mbf, 74 cds, mo 31.9 mbf, 177 cds, rm 12 cds -completion- 2014 -fully stocked to aspen and rm																																										
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78	330 - Low-Density Trees	Nonstocked	2.4			No																																											
79	3303 - Mixed Low Density Trees	Nonstocked	13.2		Immature	No	-scattered young sapling jp and wp with large log red oak -upland shrub pocket to the far west																																										
80	330 - Low-Density Trees	Nonstocked	2.9	0		No																																											
81	4130 - Aspen	Sapling Well	6.6	33	Immature	N/A	-past treatment- clearcut-sale number- 54-021-02-01-acres- 118 (stands 16, 20, 23, and 31)-leave trees- white oak in north half-volume (cds)- mixed oak 924, aspen 621, rm 88, jp 200, and ro mbf 54 (stands 16, 20, 23, and 31)-completion- 09/16/86																																										
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82	4125 - Black, N. Pin Oak	Sawtimber Well	3.2	100	51-80	N/A																																											
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83	6122 - Black Spruce	Poletimber Well	1.3	64	51-80	N/A	-past treatment- clearcut-sale number- 54-021-02-01-acres- 118 (stands 16, 20, 23, 82, 83 and 31)-leave trees- white oak in north half-volume (cds)- mixed oak 924, aspen 621, rm 88, jp 200, and ro mbf 54 (stands 16, 20, 23, 82, 83 and 31)-completion- 09/16/86-north 1/3rd appears to have been cut 33 yrs ago																																																		
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84	4130 - Aspen	Poletimber Well	4.4	47	81-110	N/A	New stand added.																																																		
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85	623 - Emergent Wetland	Nonstocked	5.1		Immature	No	cedar snags with cattails, scattered conifer seedlings																																																		
86	6239 - Mixed Emergent Wetland	Nonstocked	2.3			No	-according to map, this area was clearcut with the following sale, possibly flooded after cut:-past treatment- clearcut, winter cut only-sale number- 54-034-92-01-acres- 61 (stands 49, 56, and 62)-leave trees- cedar-volume (cds)- aspen 13 mbf, 812 cds, mixed pine 20 mbf, mixed softwood 220 cds, mixed hwd 205, mixed oak 48 cds (stands 49, 56, and 62)-completion- 6/27/96-more lowland shrubs and seedlings in this area																																																		
87	6120 - Lowland Cedar	Sawtimber Well	7.8	108	141-170	N/A	A lot of cedar to east, rest of stand being over topped by bam																																																		
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88	6127 - Lowland Pine	Sawtimber Medium	3.7	63	51-80	N/A	-mostly wp, too wet																																																		
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90	42210 - Natural Red Pine	Sawtimber Well	2.9	74	81-110	N/A	-a couple potential legacy rp within stand-high adv regen in north 1/3rd of stand																														
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91	42220 - Natural Jack Pine	Sapling Well	5.2	27	51-80	N/A	-past treatment- clearcut, winter cut only -sale number- 54-029-92-01 -acres- 32 (stands 24 and 91) -leave trees- none -volume (cds)- ro 12 mbf, 140 cds, jp 137 cds, bta 225 cds, mhwd 114 cds -completion- 3/10/93																														
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92	3303 - Mixed Low Density Trees	Nonstocked	2.9			No																															
93	310 - Herbaceous Openland	Nonstocked	2.0	0		No																															
94	4123 - Red Oak	Sawtimber Well	5.0	95	81-110	N/A	Part of the one-third-of-stand-acreage hedge against stand regeneration failure.-slightly better site quality, medium, to sw half with medium-high wp in subcanopy																														
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97	4123 - Red Oak	Sawtimber Well	10.1	95	81-110	N/A	-better site quality red oak, vwb -on a hillside with some wp coming in -access two-track borders stand and swamp to the east																																																										
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98	3201 - Sweet Fern	Nonstocked	3.5			No																																																											
99	42110 - Planted Red Pine	Poletimber Well	0.1	55	111-140	N/A	-past treatment- 3rd row thin, cut all aspen, oak, rm within rows-sale number- 54-016-04-01-acres- 33-leave trees- oak-volume (cde)- rp 12.1 mbf, 267 cds, jp 40 cds, mo 31 cds, mhwd 13 cds-completion- 2/1/07																																																										
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Black/Red (Hybrid) Oak	Medium	Variable	Sapling																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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104 42210 - Natural Red Pine Poletimber Well 1.2 45 171-200 N/A -no rows, extremely thick

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Pole/Sapling	7	45

105 4125 - Black, N. Pin Oak Sawtimber Well 4.8 79 81-110 N/A May be steep in places.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	15	Log	11	
Northern Pin Oak	80	Pole/Log	9	79
Jack Pine	5	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Cherry (spp.)	High	5 - 10 feet	Tall Shrub

109 4125 - Black, N. Pin Oak Sawtimber Well 15.6 100 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole	8	
Bigtooth Aspen	5	Log/Pole	11	
Black/Red (Hybrid) Oak	73	Log/Pole	12	100
White Pine	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
White Pine	Low	10 - 20 feet	Sapling
Black Cherry	Low	Variable	Sapling
White Oak	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	Low	Variable	Sapling