



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61035

Entry Year: 2026

Acreage: 2,762

County: Manistee

Management Area: Grand Traverse Moraine

Stand Examiner: Joe Ventimiglia

Legal Description:

T24N, R14W, sections: 20, 21, 28, 29, 32, 33

Identified Planning Goals:

This compartment is designated as mixed use in the Regional State Forest Management Plan and more specifically the Manistee River Management Area guidance. This designation places equal importance on the production of wood fiber, wildlife habitat, recreation and scenic and aesthetic values.

Soil and topography:

Major soil types for this Compartment include Roscommon-AuGres-Croswell - poorly drained sands; Montcalm-McBride-Kalkaska, Kalkaska-Rubicon - deep, droughty sands; Carlisle-Carbondale-Karston - mucks; Saigatuck - somewhat poorly drained. Terrain is level to gently rolling.

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

Compartment 35 of the Manistee River MA is a fairly solid block of state ownership in northern Manistee County. State ownership within the compartment is contiguous with the exception of 2 isolated private parcels located in the northern 2 sections of the compartment. The perimeter of the compartment alternates between state and private land interface.

Unique Natural Features:

Bear Creek and Lemon Creek flow through the compartment. Healy Lake is located in the southeast corner of the compartment in Section 33.

Archeological, Historical, and Cultural Features:

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

Special Management Designations or Considerations:

Use of appropriate buffers along Bear and Lemon Creek. These are not designated natural rivers but are protected as if they were.

Watershed and Fisheries Considerations:

Bear Creek, Lemon Creek, the Healy Lake Outlet and a number of smaller tributaries flow through Compartment 35. All are Designated Trout Streams. Bear Creek has self-sustaining populations of brook trout, brown trout, steelhead, coho salmon, and chinook salmon. Lemon Creek has a self-sustaining population of brook trout, and also supports seasonal runs of salmon and steelhead. No trout or salmon are stocked in any of these streams. Because these streams support populations of wild trout and salmon, they require the utmost protection. Aspen clear cuts close to small trout streams create conditions ripe for beaver over-colonization and resulting habitat degradation, including erosion, sedimentation, blocked fish passage, and warming of the water.

Wildlife Habitat Considerations:

This compartment falls on a flat lake plains landscape, characterized by loamy sands and relatively flat terrain. The presettlement forest cover in this landscape was dominated by beech-maple and white pine-beech-red maple forests. The compartment today is dominated by pine plantations, aspen-hardwood mixes on moist to wet soils, and some wetlands and remnant fields. This landscape is less fire-prone than the outwash plains to the north. GLO surveyors reported large wind throw areas which were perhaps the dominant natural change factor, along with natural succession.

Well advanced forest stands adjacent to the river should be maintained as late successional forest for riparian habitat and as a remnant of historic forest cover. Mink, barred owls, pileated woodpeckers, wood frogs, deer, and numerous other species will benefit from such cover. These areas are also important for the state-special concern, red-shouldered hawk.

Low lying aspen and shrub stands are abundant in sections 29 and 32. Maintaining a variety of aspen age classes here through periodic cutting will benefit numerous species such as ruffed grouse, woodcock, golden-winged warbler, and black bear. Harvests should incorporate leave trees, snags, and creation of some down logs. Wild raisin, chokeberry, and

blueberry are particularly abundant in this area and provide an extremely important soft mast resource. Patches of old white pine offer important diversity and should be maintained. Red-shouldered hawks are also known to use this area. Any nesting sites discovered should be protected following Department guidelines.

Most of the rest of the state lands in the compartment are fragmented parcels with pine plantations, remnant fields, and small stands of hardwoods. Any thinnings can only benefit wildlife by allowing some sunlight into these stands which will in turn diversify ground flora and habitat. Wetlands should be buffered when thinning adjacent stands. Openings should be maintained where they exist to enhance local diversity for deer, turkey, cedar waxwing, red fox, American goldfinch, and other species using open habitats.

Mineral Resource and Development Concerns and/or Restrictions

There is no known metallic mineral potential in this part of the state. No known active sand/gravel pits exist in the area. Due to the lack of upland property (i.e., shallow water table) and the prevalence of oil & gas infrastructure, potential for commercial development of sand & gravel within the compartment appears to be low. The compartment is within the Antrim Shale and northern Silurian reef hydrocarbon plays. Much of the compartment has seen oil & gas development, and much of the mineral rights in the compartment are currently leased and held by production.

Vehicle Access:

The road along the east edge of section 29 that also serves as the snowmobile trail has several low, muddy spots that collect water. Clean fill and gravel should be placed and spread to repair this stretch of road/snowmobile trail. The undesignated boat access site on the north end of Healy Lake which receives a moderate amount of use should be graveled and seeded to minimize sand run-off into Healy Lake.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The Bear Lake Spur of the Betsie Valley Snowmobile Trail crosses the compartment. Snowmobile trail protection specifications should be added to the timber sale contract where treatments will impact the trail system. Healy Lake Campground, operated by Springdale Township is located on the east side of Healy Lake, just outside of the compartment boundary. Remnant paint marks from the Crokey Lake Pathway, abandoned by FRD, can still be seen in sections 28 and 33. There is an undesignated boat launch site on the north end of Healy Lake. This site receives a fair amount of use which is resulting in some erosion of the slope into the lake. Dispersed recreation is common throughout the compartment during the firearms deer season. There are also numerous access points utilized by anglers along Bear Creek throughout the year, but these sites receive increased use during salmon and steelhead runs. (T.M.N. 4/14/14)

Fire Protection:

Copemish-Cleon Volunteer Fire Department, Department of Natural Resources coverage provided from the Traverse City Management Unit.

Additional Compartment Information:

The following reports from the Inventory are attached:

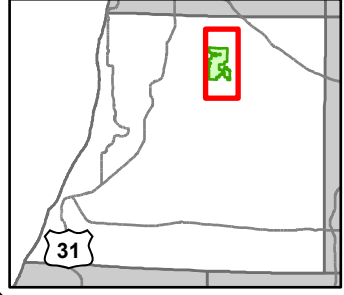
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

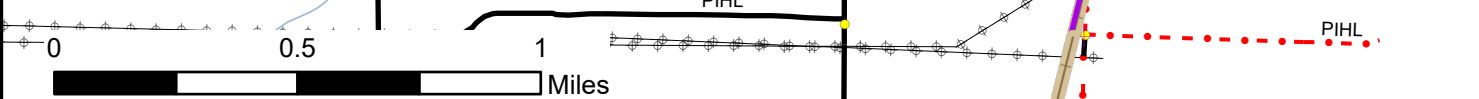
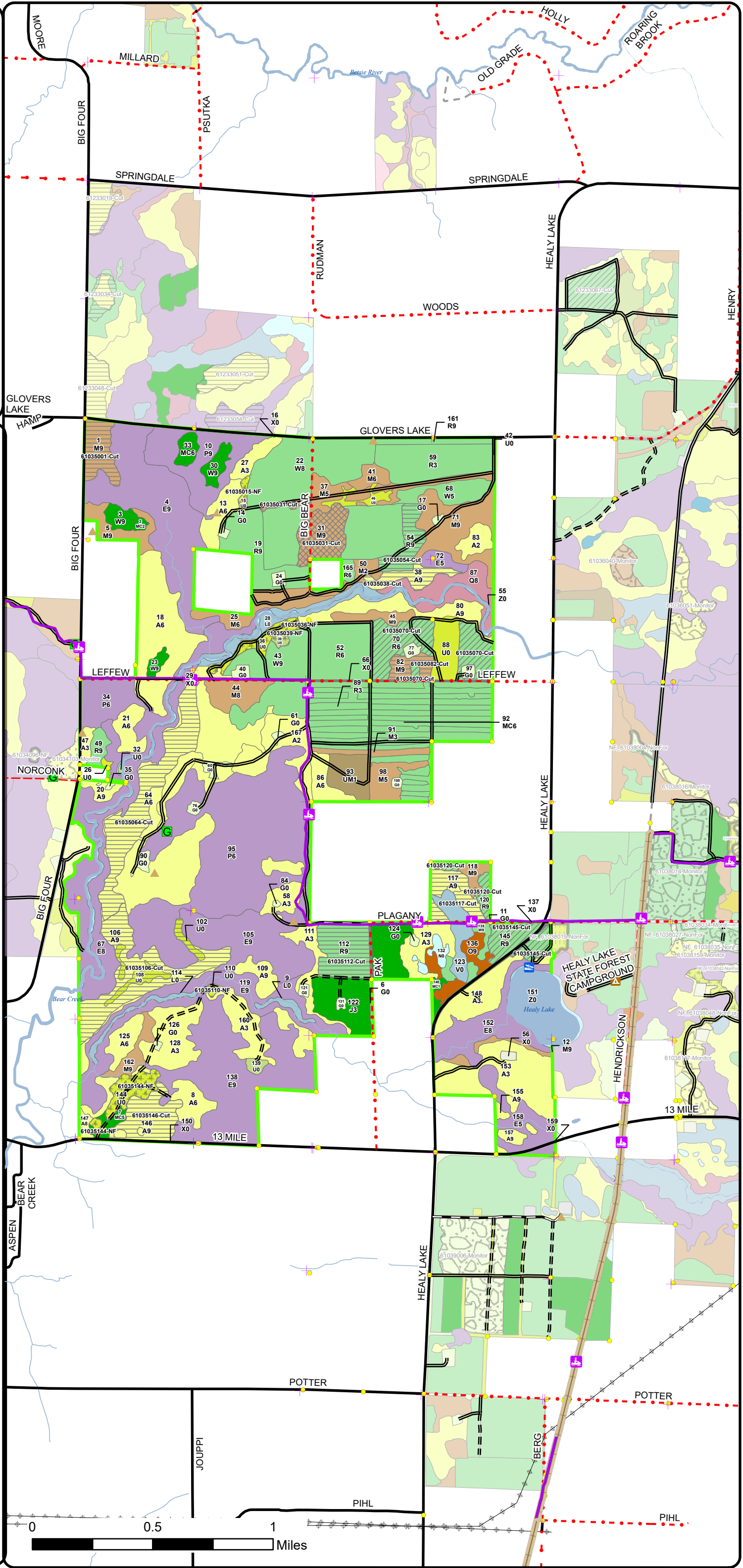
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 61035
 T24N, R14W, Sec: 20, 21, 28,
 29, 32, 33
 County: Manistee
 Unit: Traverse City
 Mgmt Area: Grand Traverse
 Moraine
 YOE: 2026
 Acres: 2762.1 GIS Calculated
 Examiner: Joe Ventimiglia
 Map Revised: 10/14/2024
 Map Phase: Post Review

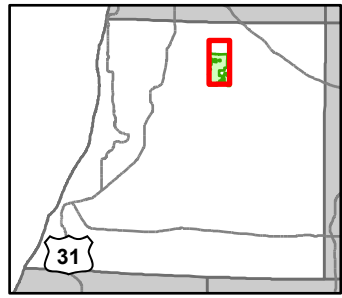


- Snowmobile Trails
- Designated Snowmobile Trails
- RailTrail
- Remonumented Section Corners
- Survey Grade Corners
- Berms
- Gate
- Boating Access Site
- Bridges
- Culvert
- Campground
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
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- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
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- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
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- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated

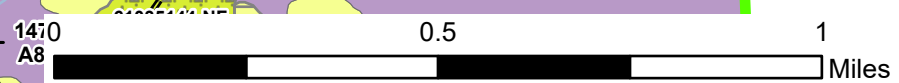
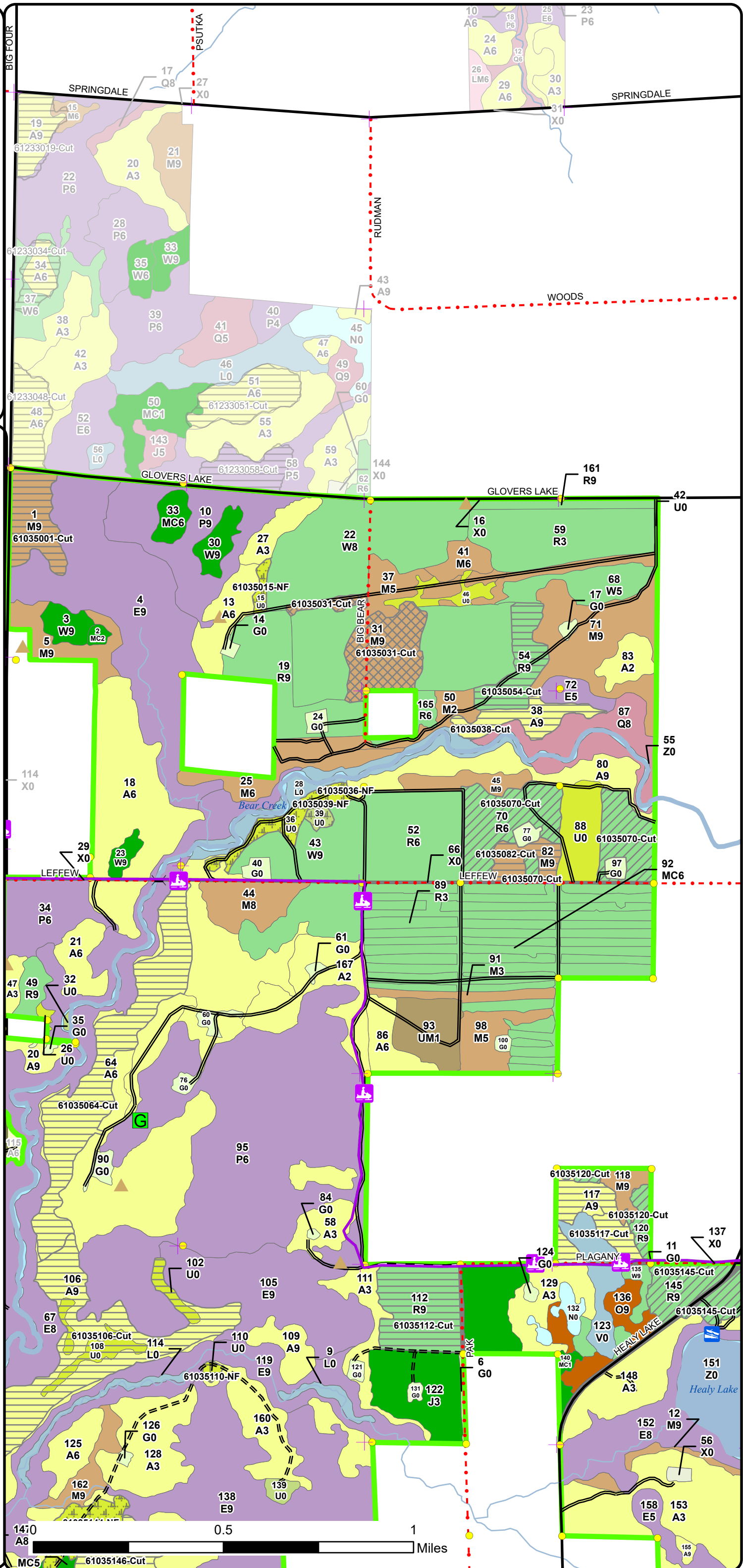


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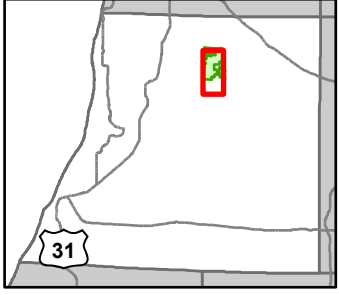


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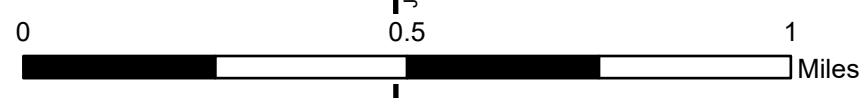
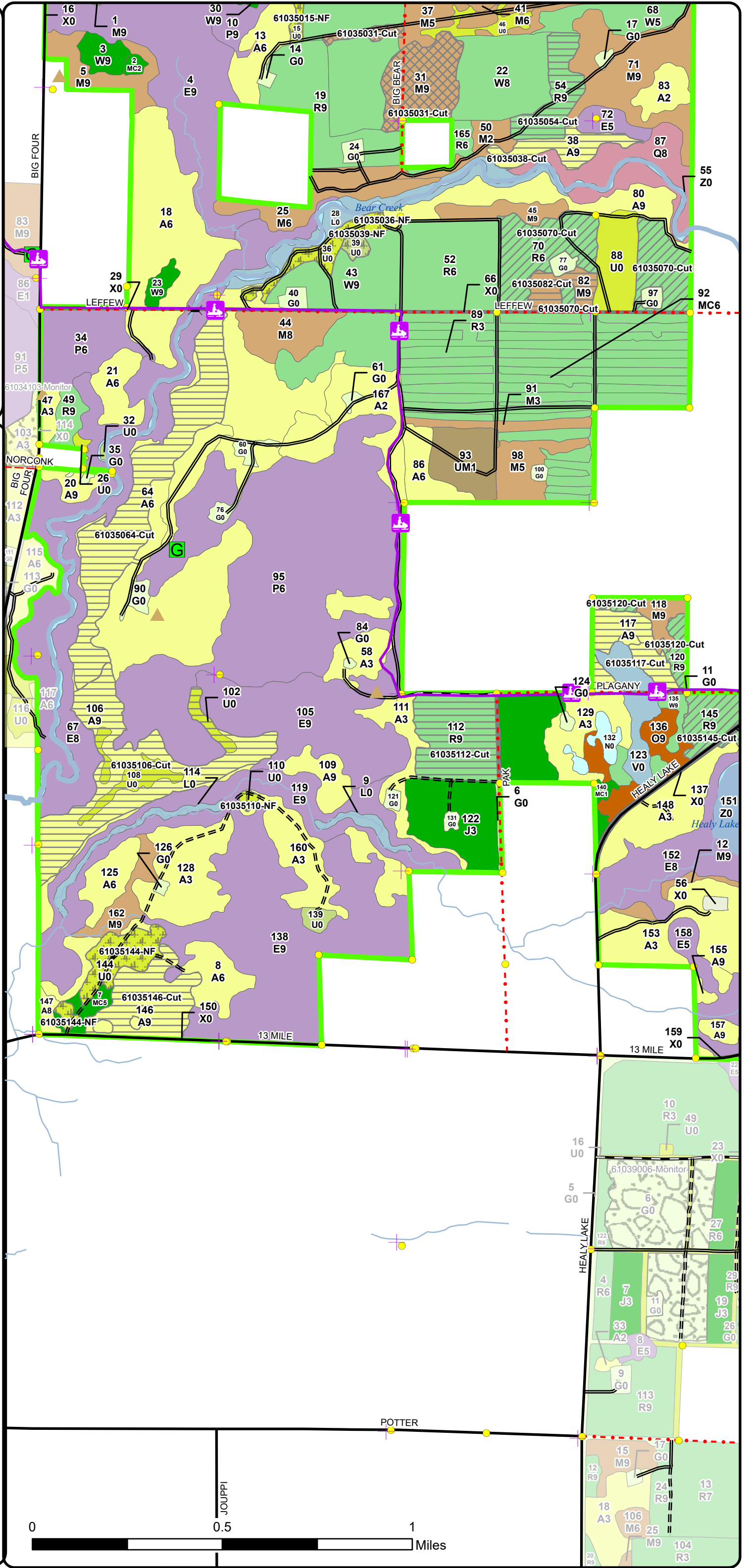


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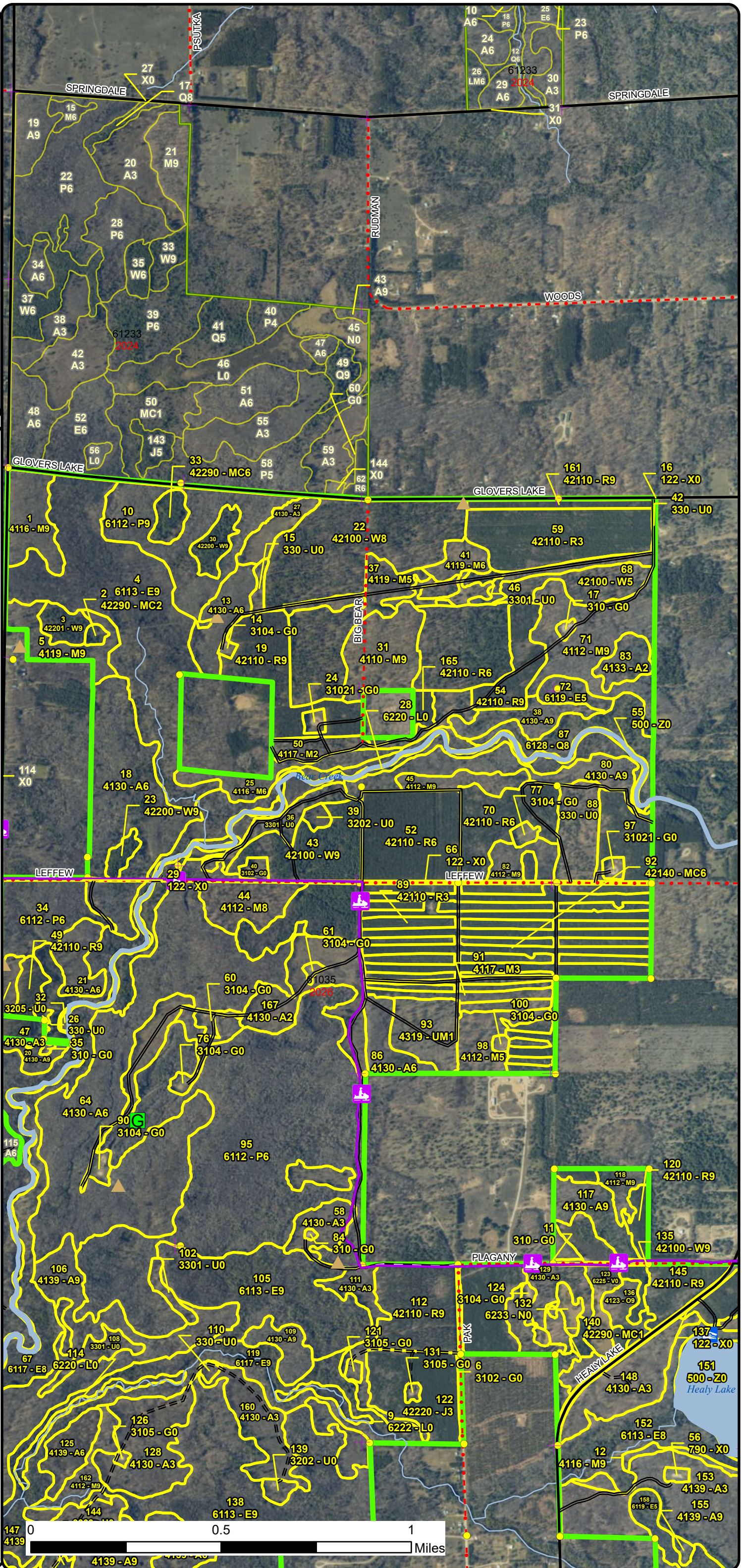
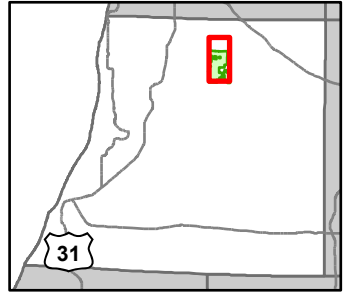


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Stand Boundary Map

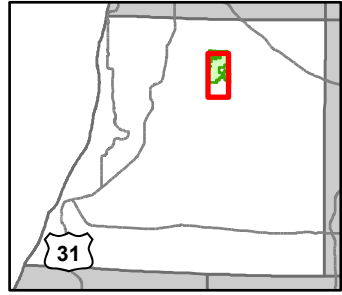
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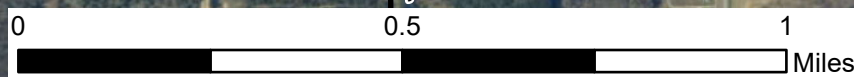
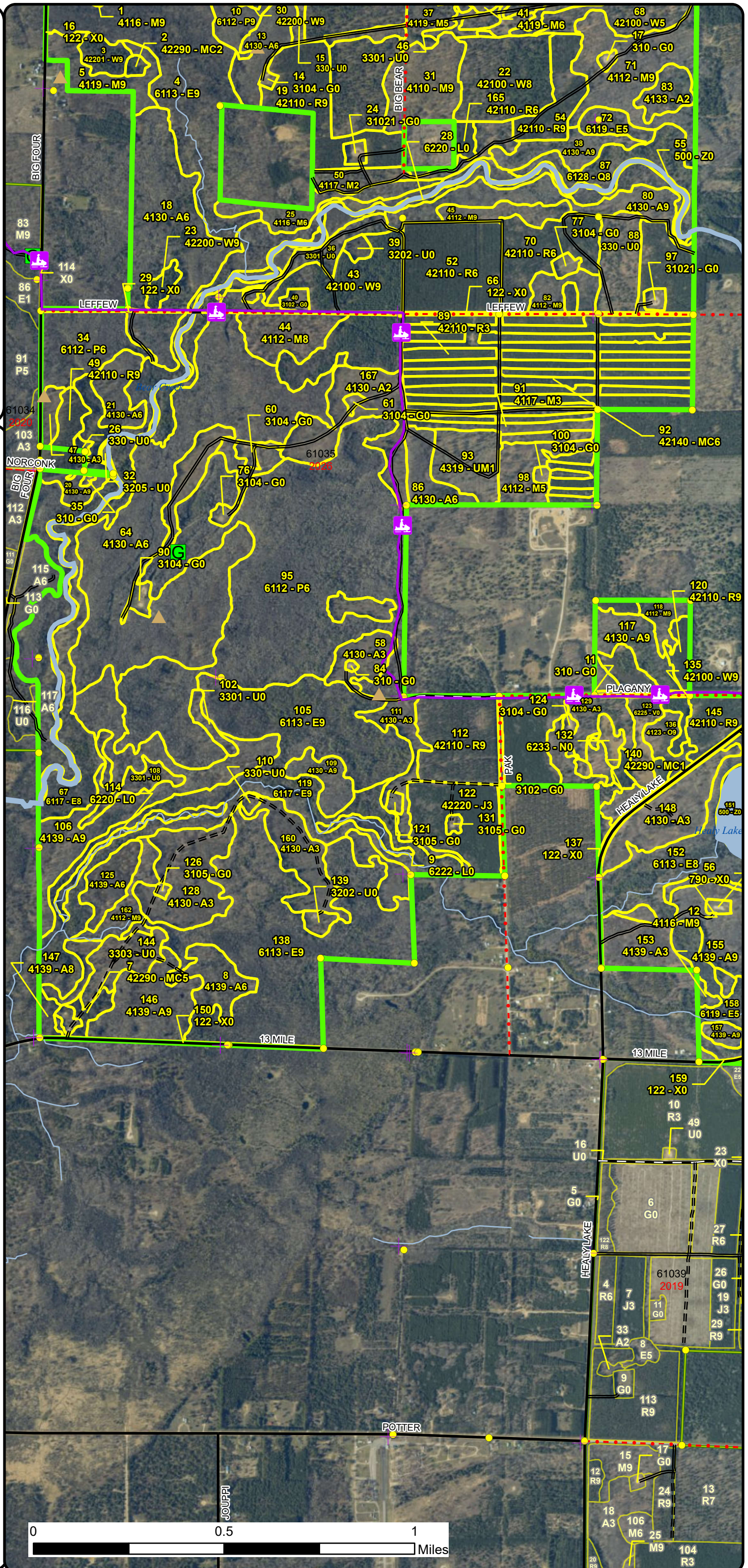
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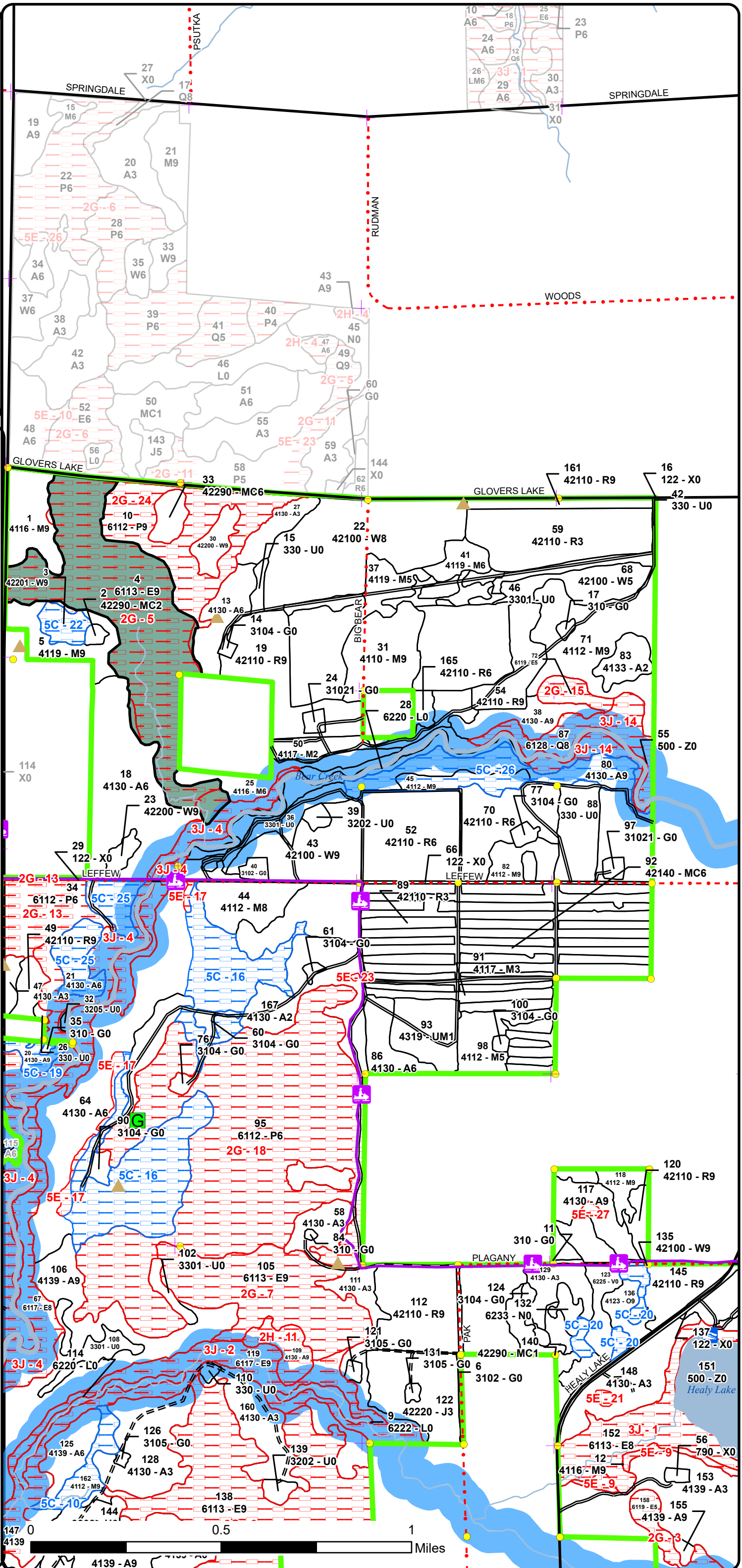
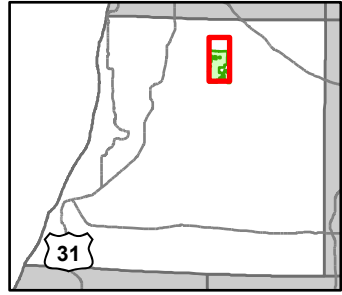


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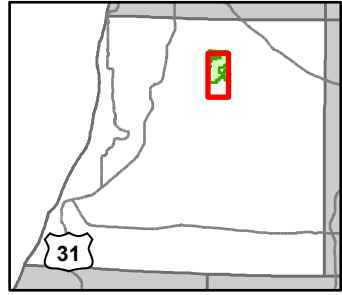


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- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Unavailable
- Stand Boundaries
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- Cold Water Streams
- High Priority Trout Stream Buffer
- Vernal Pool

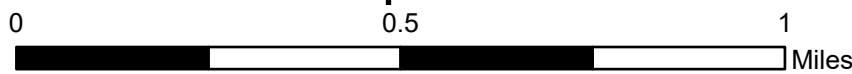
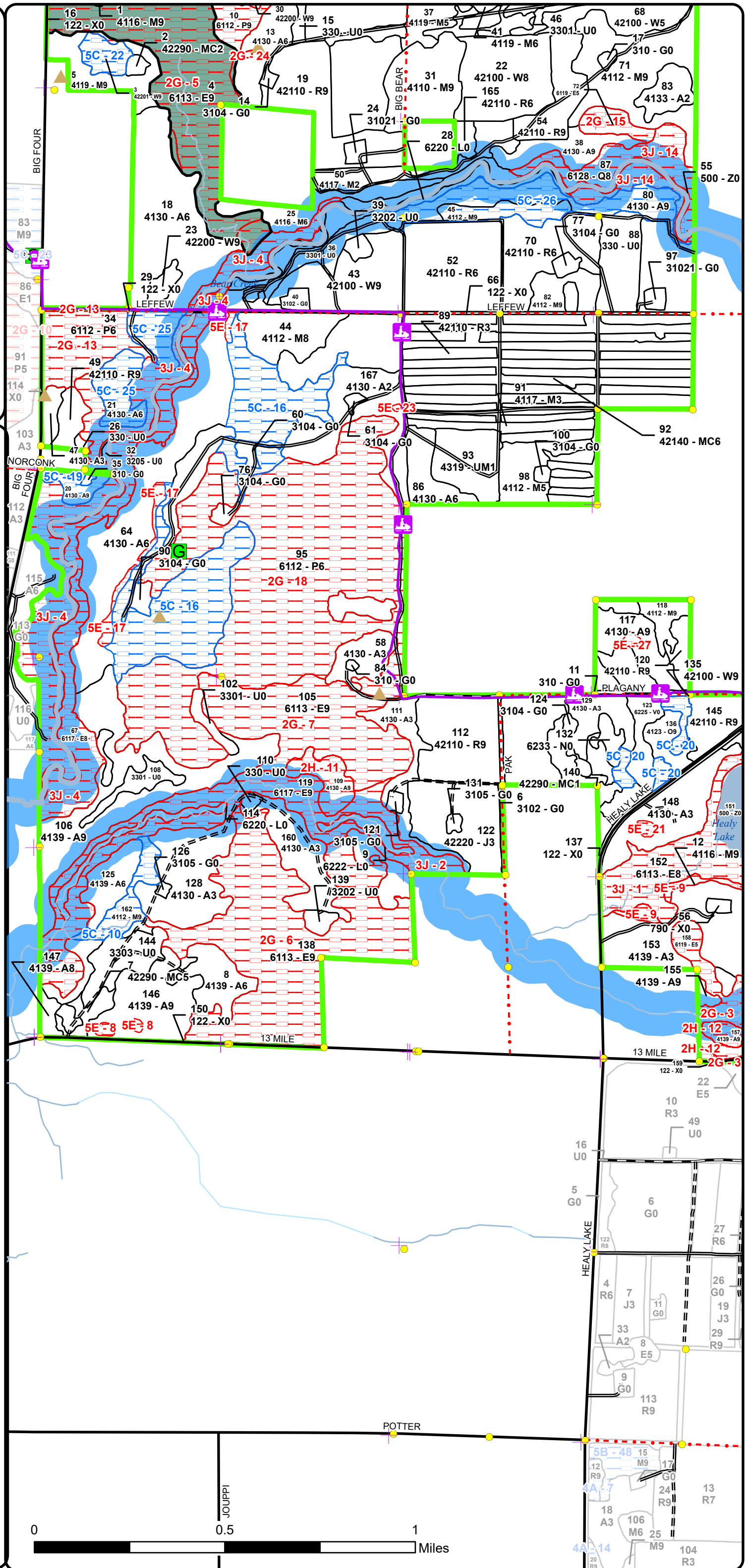


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Report 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit
Joe Ventimiglia: Examiner

Compartment 35 Year of Entry 2026



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	101	161	40	68	160	87	101	0	0	0	0	0	0	0	0	0	0	718
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Bog	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Herbaceous Openland	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Jack Pine	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Low-Density Trees	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Lowland Aspen/Balsam Poplar	0	0	0	0	0	213	71	0	0	0	0	0	0	0	0	0	0	0	284
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	29
Lowland Deciduous	0	0	0	0	0	28	0	7	61	175	0	40	102	0	0	0	0	122	535
Lowland Shrub	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Natural Mixed Pines	0	0	3	7	0	0	7	0	0	0	0	0	0	0	0	0	0	0	15
Northern Hardwood	0	0	0	24	0	14	68	0	77	24	0	29	0	0	0	0	0	10	246
Oak	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	15
Planted Mixed Pines	0	0	0	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Red Pine	0	0	116	0	0	0	0	159	52	0	0	0	0	0	0	0	0	0	327
Upland Mixed Forest	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Upland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Urban	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Water	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
White Pine	0	0	0	0	0	0	8	181	17	0	0	11	0	0	0	0	0	0	217
Total	234	120	330	144	68	415	241	463	207	199	0	80	131	0	0	0	0	132	2762



Report 2 – Treatment Summary

Traverse CityMgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 35
Total Compartment Acres: 2,762

Commercial Harvest - 355
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	Oversyory Removal	Salvage	Other	Total Acres
Aspen	176	0	0	0	0	0	0	0	0	176
Northern Hardwood	28	29	0	0	0	0	0	0	0	57
Red Pine	47	0	0	0	0	75	0	0	0	122
Total	251	29	0	0	0	75	0	0	0	355

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	355	0	0	0	0	0	0	0	33	388
Next Step	0	62	31	0	0	31	311	0	0	434
Total	355	62	31	0	0	31	311	0	33	822



S t a n d	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:

1	61035001-Cut	18.2	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	55	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final Harvest leave all conifer. As well leave retention island 3 to 5 percent of stand acreage.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of aspen and red maple. Some conifer excepted as well.</p> <p><u>Regen:</u></p> <p><u>Other</u> Map retention in MIFI. Will need temp drive access off county road. Check to make sure ROW doesn't have any underground utility</p> <p><u>Comment:</u> concerns.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
15	61035015-NF	2.5	330 - Low-Density Trees	Nonstocked			Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub	No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community, and leave cut brush in piles for cover. Leave</p> <p><u>Specs:</u> scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
31	61035031-Cut	29.3	4110 - Sugar Maple Association	Sawtimber Well	101	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Perform traditional selection thinning following complete marking guidelines. Thin from below taking out smaller diameter and suppressed</p> <p><u>Specs:</u> first then mark for spacing. Target most of cherry for removal.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Sugar maple ideally. See other comments.</p> <p><u>Regen:</u></p> <p><u>Other</u> With high deer numbers not expecting regen to get passed the deer. This treatment is more about thinning around crop trees and making</p> <p><u>Comment:</u> growing conditions optimal for residual trees left.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
36	61035036-NF	10.9	3301 - Low Density Deciduous Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3204 - Mast Producing Shrub		No
<p><u>Prescription Specs:</u> Remove invasives by utilizing current best management practices. Preferably via mechanical treatment. Minimize use of herbicides if they are needed. Replace invasive shrubs with native fruiting and mast producing shrubs or trees.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
38	61035038-Cut	12.8	4130 - Aspen	Sawtimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest leave all conifer in stand. As well leave retention at roughly 3 percent of stand acreage. (Retention should be far east tip of stand)</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen primary but mix of hardwood and some conifer expected as well.</p> <p><u>Other Comment:</u> Map retention in MIFI. Stay appropriate distance from river. Lump in with stand 54. Best if cut in frozen or dry conditions.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
39	61035039-NF	2.3	3202 - Autumn Olive/Honeysuckle	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3204 - Mast Producing Shrub		No
<p><u>Prescription Specs:</u> Remove invasives by utilizing current best management practices. Preferably via mechanical treatment. Minimize use of herbicides if they are needed. Replace invasive shrubs with native fruiting and mast producing shrubs or trees.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
54	61035054-Cut	16.6	42110 - Planted Red Pine	Sawtimber Well	65	111-140	Harvest	Clearcut	4112 - Maple, Beech, Cherry Association	Even-Aged	No
<p><u>Prescription Specs:</u> Final Harvest no retention due to small size and management intention. Leave small island of aspen regen in middle of stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of red maple and cherry, some white pine/red pine and even sugar maple potential as well.</p> <p><u>Other Comment:</u> Protect as much white pine in understory as possible otherwise counting on red maple/cherry to sprout back following harvest.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
64	61035064-Cut	58.1	4130 - Aspen	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final Harvest. Follow treatment shape as shown on treatment layer. Leave all conifer in stand. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen with mix of red maple and cherry as well.</p> <p><u>Other Comment:</u> Frozen or dry condition harvest only. Crane mats may be needed in a few spots for skidding across seasonal drainages. Create retention in seasonal N/S drainage. Plan would be to cut rest of stand in future YOY. Buffer Bear creek appropriately. Generally this will be by at least 150 feet.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
70	61035070-Cut	45.7	42110 - Planted Red Pine	Poletimber Well	63	111-140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Second thin plantation. Mark roughly a third to cut focusing on poor form and suppressed first. Thin from below. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Gas well activity in area, they will need to be notified to mitigate any safety concerns.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
82	61035082-Cut	9.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	91	111-140	Harvest	Clearcut	4112 - Maple, Beech, Cherry Association	Even-Aged	No
<p><u>Prescription</u> Final harvest no retention due to small size. Leave a few sugar maple scattered. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mix of red maple/ cherry with some conifer expected.</p> <p><u>Other Comment:</u> Objective of regenerating mix of cherry and red maple.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
106	61035106-Cut	62.5	4139 - Aspen, Mixed Deciduous	Sawtimber Well	63	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest leaving all conifer as well as any legacy sugar maple found around the openings. As well leave retention pocket. (map in MIFI) <u>Specs:</u> Per Wildlife division include UO types in final harvest as treatment shows. Green mark some scattered maple trees within opening.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen primarily but mix of hardwood accepted as well.</p> <p><u>Other Comment:</u> Buffer creek at appropriate distance. U types included in treatment per request from wildlife division. Access is from the north and will involve road improvements and or use of crane mats in a few specific locations.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
110	61035110-NF	1.3	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brushpile/Woody Debris Creation	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community, and leave cut brush in piles for cover. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
112	61035112-Cut	30.8	42110 - Planted Red Pine	Sawtimber Well	74	81-110	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut all trees over 1 inch in diameter. No retention due to smaller size planting and objective.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr); SitePrep, Roller Chopping</p> <p><u>Acceptable Regen:</u> Planted Red Pine</p> <p><u>Other Comment:</u> May be good candidate for flat planting? Will still need to be site prep spayed. Gas lines in area. Require chipping if market allows and low stumps. Don't allow use of snow trail, make landing in south end. Wildlife would like to see oak planted in 1 acre die back pocket following harvest. TMS and wildlife biologist are planning to work on this post harvest.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
117	61035117-Cut	16.1	4130 - Aspen	Sawtimber Well	56	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest. Leave most of large white pine grove intact by encompassing majority of it in retention island. (see site condition layer) As well</p> <p><u>Specs:</u> leave any White Pine outside of this island over 20 inches in diameter.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen with some white pine and red maple as well.</p> <p><u>Other Comment:</u> Include with stand 120 due to proximity. Will need to contact gas company for trucking over buried gas line in ROW of county road. WLD- Please leave a 1/2 chain buffer around wetland stand 123.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
120	61035120-Cut	7.8	42110 - Planted Red Pine	Sawtimber Well	63	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Perform low thinning on stand. Focus on taking a third of volume focusing on poor form and suppressed first Thin from below.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> This will be third thinning. Include with stand 117 final harvest.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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
144 61035144-NF	16.0	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Also leave valuable timber such as sugar maple. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> FRD will likely want to use this stand as a landing for adjacent aspen harvest. WLD work should wait till timber sale is completed.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
145 61035145-Cut	21.4	42110 - Planted Red Pine	Sawtimber Well	74	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Perform low thinning. Target roughly a third of the volume marking doubles and poor form first.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> This will be third and likely last thinning. Too small to replant so stand will be slowly pushed to HW.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
146 61035146-Cut	26.0	4139 - Aspen, Mixed Deciduous	Sawtimber Well	66	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest stand leaving two retention islands around the two main vernal ponds. See site condition layer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen and red maple.</p> <p><u>Other Comment:</u> Require frozen or dry condition harvest and make it a three year contract. Landing will be in stand 144, skid trail already in place.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Total Treatment 387.9
Acres Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia: Examiner

Compartment: 35
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5C	2G	2H	3J	5E
618	544	54	20	Aspen	54		15		4
1	1	0	0	Bare/Sparsely Vegetated					
16	16	0	0	Bog					
27	27	0	0	Herbaceous Openland					
50	50	0	0	Jack Pine					
68	68	0	0	Low-Density Trees					
284	0	0	284	Lowland Aspen/Balsam Poplar		284			
29	0	0	29	Lowland Conifers				29	
535	1	0	533	Lowland Deciduous		318		215	
29	29	0	0	Lowland Shrub					
5	5	0	0	Marsh					
16	16	0	0	Natural Mixed Pines					
246	220	20	6	Northern Hardwood	20				6
15	15	0	0	Oak					
73	73	0	0	Planted Mixed Pines					
327	327	0	0	Red Pine					
19	19	0	0	Upland Mixed Forest					
6	6	0	0	Upland Shrub					
28	28	0	0	Urban					
53	53	0	0	Water					
216	201	15	0	White Pine	15				
2,661	1,701	88	872	Total Forested Acres	88	603	15	244	10
	64%	3%	33%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	40	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Combination of too wet and buffers applied for lake and steam.							

Report 4 – Site Conditions

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2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	63	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	112	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Large buffer complex of bear creek. Area set aside as buffer to trout stream.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	102	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Mostly too wet but areas that are more upland have BMP and proximity to small creeks issues.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	121	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: LTR for stand 146 final harvest planned.							
9	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: LTR for stand 153							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Would need crane matt skid bridge and EGLE permit.							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Technically access is possible but would require crane matts in two locations as well as protection of fiber optic and gas line buried in road ROW. As well log trucks would have to back in off semi busy blind curve in county road. For all these reasons access should be hard factored. If stand was much larger access work would be more reasonable.							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	87	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: LTR for stand 64.							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	213	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Too wet given high water table and recent warm winters. If cold winters return or exceptionally dry conditions appear this could be possible to harvest in the future.							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: LTR for stand 148							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Too wet given high water table and recent warm winters. If cold winters return or exceptionally dry conditions appear this could be possible to harvest in the future.							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Year of Entry: 2026

26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: LTR for stand 117							



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
Unspecified Comments	Spring Wetlands Riparian Area	Spring Seep	SCA	106



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
1	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	18.2	55	81-110	N/A	Stand was final harvested in 1969. Came back to aspen and red maple. At this point red maple is dominate in canopy. Some aspen still hanging on.																																																							
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2	42290 - Natural Mixed Pine	Sapling Medium	1.6	20	Immature	N/A	Old well site that has been abandoned. It has filled in naturally with mix of red pine, white pine and aspen. Variability in diameters but overall sapling still. Old grade runs through stand.																																																							
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3	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	6.9	106	81-110	N/A	Nice grove of white pine. Future legacy tree potential area.																																																							
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4	6113 - Lowland Maple	Sawtimber Well	102.2	117	81-110	N/A	Large lowland maple stand. Standing water at most times of year based on the season. Stand does have a few upland slivers in south end but nothing continuous enough to be mapped. Lots of large blowdown in stand. Portions of stand was set in the 1980s to be clearcut but never happen. I'm assuming at a result of being too wet.																																																							
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5	4119 - Mixed Northern Hardwoods	Sawtimber Well	15.5	57	81-110	N/A	Stand was final harvested in late 1960s. Appears white pine was left at that time. Most of aspen has fallen out by this time. Primarily a red maple stand. Variability in diameters in maple, southern end had nice logs while NW corner has some red maple still pole size. Upland overall but lowland character it appears seasonally.																																																							
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6	3102 - Grass	Nonstocked	0.6	0	Unspecified	No																																																	
7	42290 - Natural Mixed Pine	Poletimber Medium	4.9	28	Immature	N/A	Old opening that filled in overtime with jack pine and aspen primarily. Some red pine, cherry and scotch pine as well.																																																
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8	4139 - Aspen, Mixed Deciduous	Poletimber Well	13.5	37	51-80	N/A	Area was final harvested in 1985. Was plans to get more into stand 138 but was two wet for operations. Large ruts still present from where sale became too wet. Came back to a mix of aspen, fir, and maple. Hemlock and cedar was left. Upland stand but lowland character in spots of stand.																																																
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9	6222 - Shrub-Carr	Nonstocked	4.2	0	Unspecified	No	Lowland shrub area along creek.																																																
10	6112 - Lowland Aspen	Sawtimber Well	44.9	59	81-110	N/A	Stand was final harvested in 1965. Stand is flip of a coin on upland vs lowland. Portions of stand are upland while there are definite lowland veins that run through much of stand. This stand in particular likely holds water much of year but would dry out surprisingly in drought times.																																																
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11	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified	No	ROW grassy area.																																																



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12	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	5.6	58	81-110	N/A	Strip of aspen and red maple left when stand 153 was final harvested. This is Long Term Retention for this stand and cannot be cut until stand 153 is ready to harvest again. Aspen falling out of this stand.																																										
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Red Maple	60	Log	13	58																																													
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13	4130 - Aspen	Poletimber Well	15.9	27	Immature	N/A	Stand was final harvested in 1997. Came back well to aspen and some hardwood. Upland although looks like water table could be high at times.																																										
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14	3104 - Degraded	Nonstocked	1.1		Unspecified		Degraded well site. MPSC 8978, just a pipe in the ground. Barren with st. johns wort, poverty grass, and rubus. One large cherry and one large red maple along perimeter.																																										
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15	330 - Low-Density Trees	Nonstocked	2.5		Unspecified	No	Large black cherries with maple saplings underneath. Ground cover is dominated by bracken fern.																																										
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16	122 - Road/Parking Lot	Nonstocked	7.0		Unspecified	No																																											
17	310 - Herbaceous Openland	Nonstocked	1.1	0	Unspecified																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
18	4130 - Aspen	Poletimber Well	54.6	32	81-110	N/A	Stand was final harvested in 1992. All cedar and hemlock was left, along with some scattered white pine. Cam back well to aspen with some red maple and cherry as well. Upland stand but there are a few spots in stand that appear to have seasonal lowland character.																																																
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19	42110 - Planted Red Pine	Sawtimber Well	31.8	63	111-140	N/A	Stand was planted to red pine in 1961. Stand first marked thinned in 2017. No records or third row thinning bit it appears this happen the entry prior.																																																
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20	4130 - Aspen	Sawtimber Well	5.6	56	81-110	N/A	Stand was final harvested around 1970 it appears. Small upland pocket of aspen and red maple. Incudes less than one acre block of planted red pine along roiad.																																																
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21	4130 - Aspen	Poletimber Well	21.3	56	81-110	N/A	Stand was final harvested around 1970 it appears. Mostly upland stand with some seasonal low spots in NE portion of stand, otherwise high and dry. Good access road for fisherman to walk to creek. Hemlock pocket in north end otherwise mix of aspen/red maple and cherry. Nearing log size stand.																																																
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22	42100 - Planted White Pine	Sawtimber Medium	122.0	64	51-80	N/A	Stand was planted in 1960 to white pine, East of two track was planted in 1953 but put together due to being treated the same over the years.																																																																
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23	42200 - Natural White Pine	Sawtimber Well	3.8	104	111-140	N/A	Nice little natural grove of white pine. Future legacy trees well-spaced in stand.																																																																
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24	31021 - Cool Season Grass	Nonstocked	2.1		Unspecified		State Springdale well 1-20. Mixed grasses with spotted knapweed/st. johns wort/milkweed/spurge/hoary alysum.																																																																
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25	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	14.1	45	51-80	N/A	Low quality mixed hardwood and some remanent aspen in overstorey. At this point most of aspen has fallen out and stand is converting to red maple stand. Aspen that is still left is in very rough shape.																																																																
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26	330 - Low-Density Trees	Nonstocked	1.0	0	Unspecified	No																																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
27	4130 - Aspen	Sapling Well	9.1	7	Immature	N/A	Stand was final harvested in 2017. Scattered trees left in overstory.																																																											
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28	6220 - Alder/willow	Nonstocked	19.1		Unspecified	No	From edge, Full of tag alder. Black ash, some cedar and hemlock along perimeter. Ground cover is mixed forbs and grasses.																																																											
29	122 - Road/Parking Lot	Nonstocked	0.9		Unspecified	No																																																												
30	42200 - Natural White Pine	Sawtimber Well	7.7	59	51-80	N/A	Stand was final harvested in 1965. This block of stand came back to a nice little grove of natural white pine. Upland stand although lowland character in spots..																																																											
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31	4110 - Sugar Maple Association	Sawtimber Well	29.3	101	111-140	N/A	Stand was last thinned in 1997.																																																											
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32	3205 - Mixed Upland Shrub	Nonstocked	0.5	0	Unspecified	No	Little island that appears to be maintained by private landowner to west. Foot bridge and trails connect to private land. May have been location of old fish rearing hatchery?																																																											
33	42290 - Natural Mixed Pine	Poletimber Well	6.5	59	51-80	N/A	Stand was final harvested in 1965. Similar to stand 30 but this one has more red pine for some reason. Again upland overall but lowland character at times it appears. Water table low and time of inventory.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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34 6112 - Lowland Aspen Poletimber Well 26.0 56 51-80 N/A Stand was final harvested around 1970 it appears. This portion of stand is wet with standing water much of year and well as a drains that flows through portions of stand back into bear creek at certain times of year. Stand approaching log size.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Log	9		Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	60	Pole/Log	9	56	Black Cherry	Low	5 - 10 feet	Sapling
Black Cherry	2	Pole	9		Red Maple	Medium	Variable	Sapling
Hemlock	5	Log/Pole	13					
White Pine	1	Log/Pole	13					
Yellow Birch	5	Pole/Log	8					
Northern White Cedar	2	Pole/Log	9					

35 310 - Herbaceous Openland Nonstocked 0.7 0 Unspecified No Openings in stand.

36 3301 - Low Density Deciduous Trees Nonstocked 10.9 Unspecified No Old opening filling in with mx of hardwood and pine. On verge of calling this a forested stand.

Sub-Canopy Species	Density	Avg. Height	Size
Aspen (spp.)	Trace		Sapling
Witch Hazel	Low		Tall Shrub
Autumn Olive	Low		Tall Shrub
Red Maple	Medium		Pole
Black Cherry	Medium		Pole
Bracken Fern	High		Non-Wood
Spotted Knapweed	Low		Non-Wood
St. Johns Wort	Trace		Non-Wood

37 4119 - Mixed Northern Hardwoods Poletimber Medium 14.8 55 51-80 N/A Old opening that has slowly succeeded to mixed hardwood/pine and aspen. Sugar maple dominate species.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	10	Pole	7	
Red Maple	10	Pole	7	
Sugar Maple	59	Pole	8	55
White Pine	10	Sapling/Pole/Log	4	
Jack Pine	1	Pole	8	
Black Cherry	10	Pole	7	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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38	4130 - Aspen	Sawtimber Well	12.8	52	81-110	N/A	Nice little block of log aspen on upland ridge along bear creek. Some seasonal lowland character in middle of stand with a few cedar and hemlock otherwise upland. Illegal 4 wheeler activity noted along top of bank along creek.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		66	Log	13	52	Red Maple		Medium	Variable	Sapling
Black Cherry		6	Log	13		Musclewood/Hornbeam		Low	10 - 20 feet	Tall Shrub
Hemlock		2	Pole/Log	9		Bebb's Willow		Low	5 - 10 feet	Tall Shrub
Yellow Birch		2	Pole	8		Witch Hazel		Low	10 - 20 feet	Tall Shrub
Red Maple		11	Pole/Log	8		White Pine		Low	Variable	Sapling
American Elm		2	Log	13						
Northern White Cedar		4	Log/Pole	12						
Sugar Maple		4	Log/Pole	12						
Basswood		3	Log	15						

39	3202 - Autumn Olive/Honeysuckle	Nonstocked	2.3		Unspecified	No	An old well pad that was planted with autumn olive.
Sub-Canopy Species		Density	Avg. Height	Size			
Black Cherry		Trace		Sapling			
Blackberry/Raspberry		Trace		Tall Shrub			
St. Johns Wort		Trace		Non-Wood			
Spotted Knapweed		Trace		Non-Wood			
Autumn Olive		Full		Tall Shrub			
Choke Cherry		Trace					

40	3102 - Grass	Nonstocked	2.5		Unspecified		Abandoned oil and gas.
Sub-Canopy Species		Density	Avg. Height	Size			
White Pine		Trace		Pole			
Spotted Knapweed		High		Non-Wood			
St. Johns Wort		High		Non-Wood			
Black Cherry		Trace		Sapling			
Bracken Fern		Trace		Non-Wood			
Unlisted - See Comments		Low					
Poverty Grass		Trace		Non-Wood			

41	4119 - Mixed Northern Hardwoods	Poletimber Well	7.3	75	51-80	N/A	Small little block of younger sugar maple.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		15	Log	12		Ironwood		Medium	Variable	Sapling
Ironwood		20	Pole	6						
American Elm		5	Log/Pole	10						
Sugar Maple		60	Pole/Log	9	75					

42	330 - Low-Density Trees	Nonstocked	0.7	0	Unspecified	No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
43	42100 - Planted White Pine	Sawtimber Well	51.3	64	81-110	N/A	Stand was planted to white pine in 1960. Site was sprayed to control competition in 1967. Stand was systematic cut take two leave two pattern in 2008. Thick mixed hardwood and white pine invaded understory following harvest. Few mature hardwood and aspen mixed in otherwise white pine holding on well.																																																	
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44	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	17.0	86	1-50	N/A	Stand was shelterwood harvested in 2017. Green marked trees left. Overstory is primarily average to poor quality red maple and cherry with occasional sugar maple. Harvest created mixed cherry and red maple second age class in understory. Patchy in spots but overall good overage in understory.																																																	
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45	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.3	75	81-110	N/A	Small block of decent hardwoods. Mix of pole and log timber.																																																	
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46	3301 - Low Density Deciduous Trees	Nonstocked	5.8		Unspecified	No	Old opening slowly filling in.																																																	
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47	4130 - Aspen	Sapling Well	4.5	7	Immature	N/A	Stand was final harvested in spring 2017. A few log white pine left along with a few trees along county road. Came back well to aspen and red maple.																																										
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49	42110 - Planted Red Pine	Sawtimber Well	6.3	68	81-110	N/A	Red pine was planted in 1956.																																										
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50	4117 - Mixed N. Hardwood - Pine	Sapling Medium	16.1	22	Immature	N/A	Old opening that over time has filled in nicely to mix of Harwood and mixed pine. Still some small open spots but sugar maple saps really starting to take hold. Some variability in diameters but overall younger sapling stand.																																										
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52	42110 - Planted Red Pine	Poletimber Well	39.2	63	81-110	N/A	Stand was planted to red pine in 1961.																																										
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Canopy Species	% Cover	Size Class	DBH	Age																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
54	42110 - Planted Red Pine	Sawtimber Well	16.6	65	111-140	N/A	Stand planted to red pine in 1961. Stand was third row thinned in 1997. Stand was second thinned in 2008, small aspen patch in middle was final harvested at that time. Nice block of planted red pine with significant hardwood development in understory.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Cherry		7	XLog	18		Beech	
Red Maple		3	Pole/Log	9		Black Cherry	
Red Pine		90	Log/Pole	12	65	White Pine	
						Bigtooth Aspen	
						Red Maple	
						Density	
						Avg. Height	
						Size	
55	500 - Water	Nonstocked	24.4		Unspecified	No	Bear Creek
56	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.5		Unspecified		Active gas site.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		20	Sapling	1			
Bigtooth Aspen		45	Sapling	2	11		
Black Cherry		15	Sapling	1			
Red Maple		8	Log/Pole	10			
Balsam Fir		2	Sapling	2			
Sugar Maple		10	Pole/Log	12			
58	4130 - Aspen	Sapling Well	16.5	6	Immature	N/A	Stand was final harvested in 2018. All conifer was left along with scattered green marked trees. Came back to mix of aspen/red maple and cherry.
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		5	Sapling	1			
White Pine		1	Log	12			
Red Maple		10	Sapling	1			
Quaking Aspen		67	Sapling	1	6		
Black Cherry		10	Sapling	1			
Northern White Cedar		5	Log/Pole	10			
Hemlock		2	Log/Pole	12			
59	42110 - Planted Red Pine	Sapling Well	42.3	15	Immature	N/A	Was a mixed red/jack strip plantation from 1956. Stand was final harvested in 2006 and then planted to red pine. Stand was trenched in 2008 and then planted to red pine in 2009. Jack pine volunteers came in but overall red pine seems to be taking over as of 2024.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		60	Sapling	2	15		
Jack Pine		30	Sapling	2	15		
Black Cherry		5	Sapling	2			
Red Maple		5	Sapling	3			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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60	3104 - Degraded	Nonstocked	2.5		Unspecified		Unlisted specie is goldenrod.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Unlisted - See Comments	Trace		
								Aspen (spp.)	Trace		Pole
								Black Cherry	Low		Sapling
								Bracken Fern	Low		Non-Wood
								Spotted Knapweed	High		Non-Wood
								St. Johns Wort	High		Non-Wood
Mixed Grasses	Low		Non-Wood								

61	3104 - Degraded	Nonstocked	1.0		Unspecified		70% of opening is spotted knapweed and st. john's wort.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Spotted Knapweed	Medium		Non-Wood
								St. Johns Wort	Medium		Non-Wood
								Bracken Fern	Low		Non-Wood
Mixed Grasses	Medium		Non-Wood								

64	4130 - Aspen	Poletimber Well	160.2	48	81-110	N/A	Stand was final harvested in 1976. Large aspen stand with portions of north end heavier to red maple/cherry. In this area aspen is falling out. Overall upland although seasonally wet areas including large North/South seasonal drainage. Some variability in aspen quality but overall, a poorer quality stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Cherry	10	Pole/Log	9	
								White Pine	1	Log/Pole	13	
								Balsam Fir	1	Pole	8	
								Quaking Aspen	65	Pole/Log	9	48
								Northern White Cedar	3	Log/Pole	11	
								Hemlock	3	Log/Pole	10	
								Red Maple	15	Pole/Log	9	
								Paper Birch	2	Pole	8	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Beech	Low	5 - 10 feet	Sapling	
Hemlock	Trace	Variable	Sapling									
Ironwood	Medium	Variable	Sapling									
Red Maple	Medium	Variable	Sapling									
Black Cherry	Medium	5 - 10 feet	Sapling									

66	122 - Road/Parking Lot	Nonstocked	5.3		Unspecified	No	
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67	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	111.5	86	1-50	N/A	Large riparian complex along Bear Creek. Some pockets are heavier to hemlock and cedar whereas others are more lowland hardwood. Primarily lowland but some areas along crest and sides of banks could be considered upland. Stand provided good cover and buffer for designated trout stream.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	3	Log/XLog	16	
								Balsam Poplar	7	Pole/Log	9	
								Yellow Birch	10	Log/Pole	12	
								Northern White Cedar	15	Log/Pole	10	86
								Red Pine	1	Log	15	
								Hemlock	15	Log/Pole	12	
								Red Maple	35	Log	14	86
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Ash	Medium	Variable	Sapling	
								Red Maple	Medium	Variable	Sapling	
Tag Alder	Medium	10 - 20 feet	Tall Shrub									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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68	42100 - Planted White Pine	Poletimber Medium	16.6	72	81-110	N/A	Stand was planted to white pine in 1952. Stand was shelterwood harvested in 2011. (Green Marked to leave)
Canopy Species	% Cover	Size Class	DBH	Age			
Sugar Maple	5	Pole	8				
White Pine	85	Pole/Log	9	72			
Black Cherry	8	Log	14				
Bigtooth Aspen	2	Pole	6				
Sub-Canopy Species	Density	Avg. Height	Size				
Black Cherry	Low	Variable	Sapling				
Red Maple	Low	Variable	Sapling				
Sugar Maple	Low	Variable	Sapling				

70	42110 - Planted Red Pine	Poletimber Well	45.7	63	111-140	N/A	Stand was planted in 1961. Stand was third row thinned in 2008. Little stunted looking for age with significant Harwood regeneration working in majority of stand. Some scattered poor quality mature red maple and cherry in stand.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	5	XLog/Log	18				
Black Cherry	10	Log/XLog	13				
Red Pine	85	Pole/Log	9	63			
Sub-Canopy Species	Density	Avg. Height	Size				
Beech	High	5 - 10 feet	Sapling				
Black Cherry	Medium	5 - 10 feet	Sapling				
Red Maple	Medium	5 - 10 feet	Sapling				

71	4112 - Maple, Beech, Cherry Association	Sawtimber Well	49.7	74	81-110	N/A	Larger block of medium to lower quality hardwood. Heart of stand is log sized while strip along old grade in north is more pole sized. Red maple is dominate maple although there are pockets of sugar maple in stand.
Canopy Species	% Cover	Size Class	DBH	Age			
Black Cherry	15	Log/XLog	13				
Beech	3	Log/Pole	10				
Sugar Maple	22	Pole/Log	9	74			
Red Maple	55	Log	11	74			
White Pine	3	Log	16				
Bigtooth Aspen	2	Log	12				
Sub-Canopy Species	Density	Avg. Height	Size				
Witch Hazel	Low	10 - 20 feet	Tall Shrub				
Ironwood	Medium	>20 feet	Sapling				
Beech	Low	5 - 10 feet	Sapling				
Black Cherry	Low	Variable	Sapling				
White Pine	Low	< 5 feet	Sapling				
Serviceberry (Juneberry)	Low	Variable	Tall Shrub				
Red Maple	Medium	Variable	Sapling				

72	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	6.8	69	1-50	N/A	Hummocky, seasonally wet. Mixed lowland aspen/hardwood with some cedar and hemlock mixed in as well.
Canopy Species	% Cover	Size Class	DBH	Age			
Black Ash	5	Pole	7				
Northern White Cedar	5	Pole/Log	8				
Quaking Aspen	24	Pole/Log	8				
Yellow Birch	5	Pole	7				
Hemlock	4	Pole	7				
Black Cherry	5	Pole	8				
Red Maple	52	Pole	7	69			
Sub-Canopy Species	Density	Avg. Height	Size				
Nannyberry	Medium	5 - 10 feet	Tall Shrub				
Tag Alder	Medium	5 - 10 feet	Tall Shrub				
Musclewood/Hornbeam	High	10 - 20 feet	Tall Shrub				
Black Ash	Medium	Variable	Sapling				

76	3104 - Degraded	Nonstocked	1.9		Unspecified		Old oil pad is all spotted knapweed. Some oyster fern along perimeter. Some milkweed.
Sub-Canopy Species	Density	Avg. Height	Size				
St. Johns Wort	Trace		Non-Wood				
Blackberry/Raspberry	Trace		Tall Shrub				
Unlisted - See Comments	Trace						
Bracken Fern	Trace		Non-Wood				
Willow spp.	Low						
Spotted Knapweed	High		Non-Wood				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
77	3104 - Degraded	Nonstocked	2.1		Unspecified	No	Degraded site. Unlisted one is hoary alysum. Unlisted two is mullein. Updates stand data to not "managed oil/gas". SWEPI is no longer responsible for any additional surface restoration. R Merrick																																																						
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Spotted Knapweed	Full		Non-Wood																																																										
80	4130 - Aspen	Sawtimber Well	26.9	56	Unspecified	N/A	Appears stand was final harvested in 1968.																																																						
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82	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.6	91	111-140	N/A	Low quality hardwood stand with some red pine that is mixed in from area of plantation that failed. Considerable cherry component that is deteriorating.																																																						
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83	4133 - Aspen, Mixed Pine	Sapling Medium	8.8	16	Immature	N/A	Stand was final harvested in 2007. Scattered green marked trees left at that time. Came back to significant mix of aspen/hardwood and white pine. Some open pockets but overall well forested.																																																						
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White Pine	3	XLog/Log	18																																																										
84	310 - Herbaceous Openland	Nonstocked	0.5	0	Unspecified		Well site, exposed sand, increasingly vegetated closer to perimeter of opening.																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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86	4130 - Aspen	Poletimber Well	12.1	27	Immature	N/A	Stand was final harvested in 1996. Small hardwood 1 acre block left in SE corner too small to map. Came back well to aspen. Few white pine left in SE area.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	77	Pole	6	27
White Pine	4	Log	14	
Sugar Maple	4	Log	15	
Red Maple	5	Pole	5	
Black Cherry	10	Pole	5	

87	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	29.1	115	81-110	N/A	Lowland conifer and hardwood mix off the small bluff along bear creek. Riparian buffer area of bear creek with significant variability in canopy and composition.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Log/Pole	13	
Yellow Birch	15	Log/Pole	11	
Northern White Cedar	30	Log/Pole	12	115
White Pine	5	Log	16	
Black Ash	5	Pole	9	
Hemlock	25	Log	13	
Quaking Aspen	5	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Witch Hazel	Low	Variable	Tall Shrub
Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	Low	Variable	Sapling

88	330 - Low-Density Trees	Nonstocked	17.7	0	Unspecified	No	Old field that has been filling in with hardwood and now white/red pine combination. Mostly saplings but some scattered mature hardwoods. Could label as forested but low-density trees is a better labeled as low-density trees at this time.
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89	42110 - Planted Red Pine	Sapling Well	73.8	15	Immature	N/A	Stand was final harvested in 2008. Stand was trenched in 2008. Red planted to red pine in 2009. Came back well to red pine with some hardwood competition in the south but overall will be a nice red pine planation.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Sapling	2	
Black Cherry	5	Sapling	2	
Jack Pine	5	Sapling	2	
Red Pine	85	Sapling	2	15



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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90 3104 - Degraded Nonstocked 2.9 Unspecified 85% degraded. North 15% is goldenrod. Unlisted one is hoary alysum, while unlisted two is goldenrod.

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	Low		Non-Wood
St. Johns Wort	Low		Non-Wood
St. Johns Wort	Low		Non-Wood
Red Pine	Trace		Seeding
Mixed Grasses	Low		Non-Wood
Willow spp.	Trace		
Blackberry/Raspberry	Trace		Tall Shrub
Poverty Grass	Trace		Non-Wood
Blackberry/Raspberry	Trace		Tall Shrub
Unlisted - See Comments	Trace		
Spotted Knapweed	High		Non-Wood
Spotted Knapweed	High		Non-Wood
Unlisted - See Comments	Trace		
St. Johns Wort	Low		Non-Wood
Unlisted - See Comments	Low		
Unlisted - See Comments	Low		
Mixed Grasses	Low		Non-Wood
Willow spp.	Trace		
Red Pine	Trace		Seeding
Scotch Pine	Trace		Seeding
Spotted Knapweed	High		Non-Wood
Unlisted - See Comments	Low		

91 4117 - Mixed N. Hardwood - Pine Sapling Well 7.6 27 Immature N/A was a jack pine strip final harvested in 1997, aspen and cherry are pole size residuals, hardwood encroachment was heavy enough that this stand was allowed to convert and was not replanted to red pine, light jack pine regen. heavy browse on red maple seedlings

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Sapling/Pole	4	27
Sugar Maple	5	Sapling/Pole	2	
Ironwood	20	Sapling/Pole	4	
Jack Pine	20	Sapling/Pole	4	
Black Cherry	15	Sapling/Pole	4	

92 42140 - Planted Mixed Pine Poletimber Well 72.8 26 Immature N/A Stand was previously planted jack pine and was final harvested in 1998 and then planted to red pine. Just getting into pole class still close to calling sapling. Stand is a heavy mix of red and jack pine. In pockets jack pine in dominate in others red pine is coming through.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Sapling	3	
Jack Pine	45	Pole/Sapling	5	
Red Pine	50	Pole/Sapling	5	26



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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93	4319 - Mixed Upland Forest	Sapling Poor	18.6	6	1-50	N/A	Stand was planted to white pine in 1952. Stand was final harvested/seed tree cut in 2018 with scattered sugar maple and green marked white pine left as retention. Scattered seed tree not enough to be considered overstory. Heavy deer browse has impacted maple regen from cut. At this time (2024) regen has still not made it past the deer. Will be one to keep eye on, only hope may be white pine slowly regenerating.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		15	Log	15	72			
Black Cherry		1	Log	14				
Black Cherry		15	Sapling	1	6			
White Pine		43	Sapling	1	6			
Sugar Maple		4	Log	15				
Beech		5	Sapling	1	6			
Sugar Maple		2	Sapling	1				
Red Maple		15	Sapling	1	6			

95	6112 - Lowland Aspen	Poletimber Well	213.4	48	81-110	N/A	Appears majority of stand was final harvested in 1976. Stand is lowland complex of aspen/red maple along with some hemlock and cedar. OLD COMMENTS- Mixed stand with aspen being dominant. Red maple present in descent numbers along with pockets of cedar, hemlock and black ash throughout. Stand is wet with standing water present throughout much of stand at time of inventory. Southern edge of stand contains some springs leading to Lemon creek which have definitive flow to them. Pockets of stand are upland however these remain very difficult to access without causing significant rutting damage. Some ORV damage has been caused along old trail leading from southern end of access road within stand 64, rutting remains and is quite deep. (old comment) stand is generally lowland with some minor upland inclusions	
Canopy Species		% Cover	Size Class	DBH	Age			
Black Cherry		5	Pole/Log	9				
Northern White Cedar		5	Pole/Log	9				
Black Ash		5	Pole	6				
Hemlock		5	Pole/Log	8				
Quaking Aspen		55	Pole/Log	8	48			
Red Maple		25	Pole/Log	9				
Sub-Canopy Species		Density	Avg. Height	Size				
Black Cherry		Low	10 - 20 feet	Sapling				
Red Maple		Medium	Variable	Sapling				
Nannyberry		High	5 - 10 feet	Tall Shrub				
Musclewood/Hornbeam		Low	Variable	Pole				
Northern White Cedar		Low	Variable	Pole				

97	31021 - Cool Season Grass	Nonstocked	1.9		Unspecified		State Springdale well 1-21. Active well site as of 2024.
Sub-Canopy Species		Density	Avg. Height	Size			
St. Johns Wort		Trace		Non-Wood			
Unlisted - See Comments		Trace					
Black Cherry		Trace		Seeding			
Bracken Fern		Trace		Non-Wood			
Spotted Knapweed		Low		Non-Wood			
Mixed Grasses		Full		Non-Wood			

98	4112 - Maple, Beech, Cherry Association	Poletimber Medium	14.5	55	1-50	N/A	area not originally planted to jack pine, hardwood occupied site at time of planting and has continued to colonize stand (multiple ages) . Variable stand with pockets of log sugar maple to pockets of sapling maple. Portions were attempted to be planted and converted to maple.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		30	Pole/Log/Sap	7	55			
Bigtooth Aspen		10	Log/Pole	10				
Black Cherry		30	Pole/Log	10				
Sugar Maple		28	Pole/Sap/Log	8	55			
Red Pine		2	Sapling/Pole	4				
Sub-Canopy Species		Density	Avg. Height	Size				
Ironwood		High	Variable	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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100	3104 - Degraded	Nonstocked	1.1		Unspecified		40-50% mixed grasses, rest is st. johns wort and spotted knapweed. Mullein present.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Spotted Knapweed	Medium		Non-Wood
								Mixed Grasses	Medium		Non-Wood
St. Johns Wort	Medium		Non-Wood								

102	3301 - Low Density Deciduous Trees	Nonstocked	3.7		Unspecified	No	Opening on high ground.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	Medium		Pole
								Bracken Fern	High		Non-Wood
								St. Johns Wort	Trace		Non-Wood
								Aspen (spp.)	Medium		Sapling
								Blackberry/Raspberry	Trace		Tall Shrub
								Black Cherry	Low		Sapling
Mixed Grasses	Low		Non-Wood								

105	6113 - Lowland Maple	Sawtimber Well	60.8	76	81-110	N/A	Mixed lowland hardwood with conifer hemlock and cedar mixed. Lowland stand but a few small ridges on more upland present too small to map.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	2	Log/XLog	15	
								Northern White Cedar	5	Log/Pole	11	
								Hemlock	8	Log/Pole	12	
								Balsam Fir	5	Pole/Log	9	
								Quaking Aspen	5	Log	12	
								Red Maple	65	Log/XLog	15	76
								Yellow Birch	10	Log	12	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Musclewood/Hornbeam	Low	Variable	Sapling	
Red Maple	Full	Variable	Sapling									

106	4139 - Aspen, Mixed Deciduous	Sawtimber Well	55.0	63	81-110	N/A	Upland ridge of aspen with mixed hardwood scattered in as well. Aspen holding on but hardwood taking over in few pockets. Illegal ORV activity from private. Variability in quality and composition in stand from pockets of really nice log aspen to others that are looking rougher.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	1	Log/XLog	15	
								Red Maple	30	Log/XLog	15	
								Paper Birch	2	Log/Pole	12	
								Bigtooth Aspen	58	Log/Pole	13	63
								Hemlock	2	Pole/Log	8	
								Black Cherry	5	Log	12	
								Yellow Birch	2	Log/Pole	12	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	High	Variable	Sapling	
Beech	Low	5 - 10 feet	Sapling									
Hemlock	Trace	>20 feet	Pole									
White Pine	Low	Variable	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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108 3301 - Low Density Deciduous Trees Nonstocked 8.8 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Medium		Tall Shrub
Balsam Poplar	Trace		Sapling
Hawthorn (spp.)	Trace		Tall Shrub
Mixed Grasses	Low		Non-Wood
Strawberry	Trace		Non-Wood
Black Cherry	Medium		Pole
Sugar Maple	Trace		Pole
St. Johns Wort	Trace		Non-Wood
Bracken Fern	Full		Non-Wood

2004 Wildlife Comments. One apple tree along perimeter. Multiple clumps of witch hazel, different than other low density tree stands within area. Mostly pole/log black cherry. One clump of balsam poplar along south side.

109 4130 - Aspen Sawtimber Well 10.1 63 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	5	Log/Pole	12	
Yellow Birch	5	Log/Pole	12	
Red Maple	25	Log/Pole	15	
Bigtooth Aspen	65	Log	13	63

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Hemlock	Low	Variable	Pole
Black Cherry	Low	10 - 20 feet	Sapling

Island of aspen and mixed hardwood. Was cut at same time as stand 106 it appears and was accessed with temp crane matt skid trail.

110 330 - Low-Density Trees Nonstocked 1.3 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Spotted Knapweed	Trace		Non-Wood
Mixed Grasses	Low		Non-Wood
Bracken Fern	Full		Non-Wood
Black Cherry	Low		Pole
Blackberry/Raspberry	Medium		Tall Shrub
Serviceberry (Juneberry)	Trace		
Witch Hazel	Trace		Tall Shrub
Serviceberry (Juneberry)	Trace		
Staghorn Sumac	Trace		Tall Shrub
Serviceberry (Juneberry)	Trace		
Strawberry	Trace		Non-Wood
Autumn Olive	Trace		Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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111 4130 - Aspen Sapling Well 14.0 16 Immature N/A Stand was final harvested in 2007. Some green marked trees left.
Came back well to aspen with some cherry and red maple mixed in.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	1	Sapling	1	
Bigtooth Aspen	66	Sapling	3	16
Red Maple	20	Sapling	2	
White Pine	2	Sapling	2	
Black Cherry	8	Sapling	2	
Hemlock	2	Pole/Log	8	
Balsam Fir	1	Pole	6	

112 42110 - Planted Red Pine Sawtimber Well 30.8 74 81-110 N/A Stand was planted to red and jack pine in 1950. Stand was thinned in 1998. Stand was thinned in 2006. Stand was thinned again in 2016. Mortality pocket in NE corner was final harvested. Good quality stand with limited understory compared to most stands of this age and treatment history.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	98	Log	14	74	Black Cherry	Low	5 - 10 feet	Sapling
Black Cherry	2	XLog/Log	18		Beech	Medium	5 - 10 feet	Sapling
					Red Maple	Low	5 - 10 feet	Sapling
					Red Pine	Trace	< 5 feet	Sapling
					White Pine	Trace	< 5 feet	Sapling

114 6220 - Alder/willow Nonstocked 6.1 Unspecified No A mixture of tag alders with black ash. Ground cover is mostly lowland rubus species (gooseberry?), fern, mixed forbs, and jewelweed.

117 4130 - Aspen Sawtimber Well 17.1 56 81-110 N/A Aspen/red maple stand with nice grove of natural log and XL legacy trees in stand. No true legacy trees but some would have potential to grow into legacy trees. Some variability in aspen clones. NW has best quality aspen while SE is little rougher and smaller diameter.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	1	Log/Pole	13		Beech	Low	Variable	Sapling
Beech	1	Log	14		Red Maple	Medium	Variable	Sapling
Sugar Maple	1	Log	14		White Pine	Low	Variable	Sapling
Red Maple	16	Log	14		Black Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen	64	Log/Pole	12	56				
White Pine	15	XLog/Log	18					
Black Cherry	2	Log/Pole	13					

118 4112 - Maple, Beech, Cherry Association Sawtimber Well 6.6 85 81-110 N/A Poor quality hardwood stand with some white pine planted in stand in 1960. White pine was underplanted and much of it died out only a handful made it through to canopy. Hardwood is mainly stump sprout origin not many if any crop trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	1	Log	13		Ironwood	Low	Variable	Sapling
Sugar Maple	60	Log/Pole	11	85	White Pine	Low	Variable	Sapling
Red Maple	25	Log	15		Beech	Low	Variable	Sapling
Black Cherry	4	Log	12					
White Pine	10	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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119 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 62.9 85 81-110 N/A Large lowland complex riparian area along lemon creek. Largely lowland but does contain some of buffer area left along sides and tops of banks. Areas along stream are heavier to hemlock and cedar whereas others are heavier to lowland hardwood and aspen. Unofficial ATV bridge across stream is still holding up.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5	Log/Pole	14	
Northern White Cedar	10	Log/XLog	13	
White Pine	5	Log/XLog	14	
Hemlock	15	Log/Pole	10	
Black Cherry	2	Log	14	
Red Maple	50	Log/Pole	15	85

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
White Oak	Low	Variable	Sapling
Tag Alder	Medium	10 - 20 feet	Tall Shrub

120 42110 - Planted Red Pine Sawtimber Well 7.8 63 171-200 N/A Stand was planted to red pine in 1961. Stand was third row thinned in 1997. Stand was mark thinned in 2008.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	1	Log/Pole	13	
Black Cherry	1	Log	13	
Red Pine	98	Log/Pole	10	63

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	< 5 feet	Sapling
Beech	Low	< 5 feet	Sapling

Decent quality red pine stand just getting into log class overall. Prime for another thinning.

121 3105 - Mixed Upland Herbaceous Nonstocked 1.4 Unspecified Old well site with autumn olive scattered around. Appears to be inactive and capped.

Sub-Canopy Species	Density	Avg. Height	Size
Spotted Knapweed	Low		Non-Wood
Bracken Fern	Medium		Non-Wood
Autumn Olive	Medium		Tall Shrub
Mixed Grasses	High		Non-Wood
St. Johns Wort	Medium		Non-Wood

122 42220 - Natural Jack Pine Sapling Well 49.9 15 Immature N/A Jack pine stand that was final harvested in 2008 and then planted to red pine. Stand was trenched in 2008 and then planted to red pine in 2009.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	25	Sapling	2	15
Red Maple	5	Sapling	2	
Beech	1	Sapling	2	
Red Oak	1	Sapling	3	
Jack Pine	63	Sapling	2	15
Black Cherry	5	Sapling	2	

Jack pine volunteers took over site. Some areas where red pine fighting through but overall red pine planting was a failure. That said jack pine growing well and will be a manageable stand in future along with any red pine that makes it through.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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123	6225 - Bog	Nonstocked	15.9		Unspecified	No	Mixed lowland bog. Some white pine slowly filling in particularly in the north end.				
								Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	Low		Pole
								Bulrush	Low		Non-Wood
								Tamarack	Low		Pole
								Leatherleaf	Full		Tall Shrub
								Cattail spp.	Trace		Non-Wood
								Willow spp.	Low		
Mixed Grasses	Trace		Non-Wood								

124	3104 - Degraded	Nonstocked	1.0		Unspecified		60% spotted knapweed/st. john's wort/barren. Unlisted specie is mullein. Active				
								Sub-Canopy Species	Density	Avg. Height	Size
								Mixed Grasses	Medium		Non-Wood
								Bracken Fern	Trace		Non-Wood
								St. Johns Wort	Low		Non-Wood
								Unlisted - See Comments	Trace		
Spotted Knapweed	High		Non-Wood								

125	4139 - Aspen, Mixed Deciduous	Poletimber Well	11.9	27	Immature	N/A	Stand was final harvested in 1996. Was a hardwood stand primarily at time of harvest. Came back to mix of cherry and aspen. Aspen in big clones with more of HW regen in north end. A few mature maples left scattered.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	1	Log/XLog	16	
								Black Cherry	40	Pole/Sapling	5	27
								Quaking Aspen	49	Pole	6	27
Red Maple	10	Sapling/Pole	4									

126	3105 - Mixed Upland Herbaceous	Nonstocked	0.8		Unspecified		Oil and gas site.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Spotted Knapweed	Medium		Non-Wood
								Poverty Grass	High		Non-Wood
								Bracken Fern	Low		Non-Wood
St. Johns Wort	Medium		Non-Wood								

128	4130 - Aspen	Sapling Well	37.2	16	Immature	N/A	Stand was final harvested in 2007. All conifer was left along with some Green marked trees. A few small wet pockets were left that were too wet to cut. As well small opening was included that sprouted up when sale was cut. Overall came back well to aspen and some HW.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	1	Log/XLog	16	
								Black Cherry	19	Sapling	2	
								Red Maple	15	Sapling	2	
Quaking Aspen	65	Sapling	2	16								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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129 4130 - Aspen Sapling Well 17.7 16 Immature N/A

Stand was final harvested in 2007. Scattered white pine was left along with all oak. Aspen sprouted well from harvest with oak and white pine scattered but not enough to consider overstory.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	15	Log	12	
White Pine	2	Sapling	2	
Bigtooth Aspen	65	Sapling	2	16
Red Maple	10	Sapling	1	16
Red Oak	8	Log	12	

131 3105 - Mixed Upland Herbaceous Nonstocked 1.1 Unspecified

At first glance, looks degraded. Amount of poverty grass/mixed grasses makes this opening mixed upland. Some pine regeneration along the south perimeter. Trace amount of mullein.

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	Low		Non-Wood
Jack Pine	Low		Seeding
Blackberry/Raspberry	Low		Tall Shrub
Poverty Grass	Medium		Non-Wood
Spotted Knapweed	Low		Non-Wood
St. Johns Wort	Medium		Non-Wood

132 6233 - Wet Meadow Nonstocked 5.3 Unspecified No

Wet. Mixture of bulrush/sedges and grasses. Leatherleaf/blueberry/unknown shrub along perimeter.

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	High		Non-Wood
Sphagnum Moss	Medium		Non-Wood
Blueberry/Bilberry/Cranberry	Low		Tall Shrub
Leatherleaf	Trace		Tall Shrub
Bulrush	High		Non-Wood
Sedges	High		Non-Wood
Unlisted - See Comments	Trace		

135 42100 - Planted White Pine Sawtimber Well 7.8 64 171-200 N/A

Small stands planted to white pine in 1960.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Log/Pole	14	
Red Oak	5	Log	14	
White Pine	90	Log/Pole	10	64
Black Cherry	3	Log/Pole	13	

Never thinned. Stands holding together well. Just getting into log size class. Rows not well defined.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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136	4123 - Red Oak	Sawtimber Well	14.8	65	81-110	N/A	Oak stand with aspen component particularly in NE portion. Oak is just getting into log class with oak still looking vigorous with no signs of oak wilt or decline. Turkey and deer sign throughout this stand.																																																				
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137	122 - Road/Parking Lot	Nonstocked	11.1		Unspecified	No	
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138	6113 - Lowland Maple	Sawtimber Well	122.4	111	81-110	N/A	Large lowland complex with standing water in much of area at time of inventory. Some conifer but primarily lowland hardwood and aspen. There are small upland areas in this stand but not contiguous enough to separate. These upland areas in the stand have streams and seeps which also lend itself to this stand. Southern edge of stand was attempted to be set up in the 1980s but was never cut due to wet conditions. Appears old skid trails still present. stand encompasses areas of log and pole size trees, overall log size, standing water throughout, call made from numerous edge visits, traces of cedar																																																				
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139	3202 - Autumn Olive/Honeysuckle	Nonstocked	2.8		Unspecified		Autumn olive filling in thick as well as some HW filling in. Active oil and gas. 2004 notes- Family group (3-4 birds) of red-shouldered hawks on east side.																										
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Blackberry/Raspberry	Low		Tall Shrub																														

140	42290 - Natural Mixed Pine	Sapling Poor	3.2	15	Immature	N/A	Opening that seeded in naturally with red pine and white pine. Some variability in diameters but overall young sapling stand. Providing great cover for wildlife.																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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144 3303 - Mixed Low Density Trees Nonstocked 16.0 Unspecified No Mixed low density trees.

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	Low		Non-Wood
Autumn Olive	Trace		Tall Shrub
St. Johns Wort	Low		Non-Wood
Spotted Knapweed	Medium		Non-Wood
Black Cherry	Low		Pole
Strawberry	Trace		Non-Wood
White Pine	Trace		Sapling
Bracken Fern	High		Non-Wood

145 42110 - Planted Red Pine Sawtimber Well 21.4 74 171-200 N/A

Stand was planted in 1950.
Stand was third row thinned in 1997.
Stand was second thinned in 2007.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	92	Log	13	74
Sugar Maple	1	Log	15	
Black Cherry	2	Log	13	
Red Maple	5	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Medium	< 5 feet	Sapling
White Pine	Low	< 5 feet	Sapling
Red Maple	Medium	Variable	Sapling
Beech	Medium	< 5 feet	Sapling

Good quality red pine stand with mixed maple/beechn and cherry getting going in the understory in spots. Also included 1 to 2 acre inclusion of mature low quality hardwood in center of stand along main road.

146 4139 - Aspen, Mixed Deciduous Sawtimber Well 27.4 66 81-110 N/A

Mixed log aspen and red maple stand. Upland overall but definite seasonal lowland character. Hummocky ground. Two vernal ponds in south end. Aspen beginning to fall out but still major stand component. If no action is taken stand will convert to soft maple stand.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	1	Log/Pole	10	
Black Cherry	5	Log	13	
White Pine	1	Log/XLog	17	
Quaking Aspen	51	Log	13	66
Sugar Maple	2	Log/XLog	16	
Red Maple	40	Log	14	66

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Red Maple	High	Variable	Sapling
Beech	Low	5 - 10 feet	Sapling

147 4139 - Aspen, Mixed Deciduous Sawtimber Medium 3.3 58 51-80 N/A

Small stand of mixed aspen/red maple/paper birch along with mixed pine.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	10	Log	13	
Jack Pine	4	Log/Pole	10	
Paper Birch	10	Log/Pole	10	
Red Maple	15	Pole/Log	8	
Black Cherry	2	Log	12	
White Pine	2	Log/Pole	12	
Quaking Aspen	55	Log/Pole	11	58
Beech	2	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	Variable	Sapling
Hawthorn (spp.)	Low	10 - 20 feet	Tall Shrub
Red Maple	Medium	Variable	Sapling
Beech	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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148 4130 - Aspen Sapling Well 27.2 6 Immature N/A

Stand was final harvested in spring of 2018 with scattered red oak, white pine, red pine and sugar maple being left throughout stand. In addition, small retention areas were left along Healy Lake rd. and an island in the larger portion of the stand.

Came back well to aspen along with some red maple and cherry.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	2	Log	12	
Bigtooth Aspen	65	Sapling	1	6
White Pine	1	XLog	22	
Red Pine	2	Log	13	
Sugar Maple	1	Log	14	
Black Cherry	9	Sapling	1	
Red Maple	20	Sapling	1	

150 122 - Road/Parking Lot Nonstocked 2.5 Unspecified No Road

151 500 - Water Nonstocked 28.7 Unspecified No Lake

152 6113 - Lowland Maple Sawtimber Medium 40.3 105 51-80 N/A

Lowland riparian and buffer complex along Healy Lake. Creek runs through stand into lake. Overall lowland although a ridge runs through stand that is more upland, along with side slope to lake being more upland.

Some variability in stand from pockets of nice red maple to lower pockets with poorer quality pole size maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	15	Log/Pole	11		Red Maple	Medium	Variable	Sapling
Red Maple	57	Log/Pole	16	105	White Pine	Low	5 - 10 feet	Sapling
Black Cherry	2	Log	15		Black Cherry	Low	5 - 10 feet	Sapling
Yellow Birch	14	Log	13		Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	2	Log/XLog	16		Hemlock	Low	5 - 10 feet	Sapling
Quaking Aspen	2	Log	13					
Northern White Cedar	2	Log/Pole	10					
Sugar Maple	5	Log	16					
Red Oak	1	Log	12					

153 4139 - Aspen, Mixed Deciduous Sapling Well 54.6 14 Immature N/A

Stand was final harvested in 2010. All conifer and scattered green marked trees left. As well strip of uncut timber was left as retention along north edge of stand. See site condition layer...

Came back to aspen with mixed red maple and cherry heavy in spots. Hemlock strip along southern edge.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	4	Log	15	
Red Oak	1	Log	15	
Red Maple	20	Sapling	2	
Black Cherry	1	Log	14	
Bigtooth Aspen	45	Sapling	2	14
Balsam Fir	1	Sapling	2	
Beech	5	Sapling	2	
Sugar Maple	4	Log	14	
White Pine	2	Sapling	1	
Hemlock	2	Log/Pole	14	
Black Cherry	15	Sapling	2	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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155 4139 - Aspen, Mixed Deciduous Sawtimber Well 3.3 66 81-110 N/A

Stand is on two small upland ridges between adjacent lowland stands. Mixed aspen and maple. Enough aspen to be considered aspen stand although as time goes on this will convert to HW. Some hemlock and cedar around edges.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	1	Log/Pole	13		Red Maple	Medium	Variable	Sapling
Yellow Birch	8	Log	12		White Pine	Low	Variable	Sapling
Bigtooth Aspen	45	Log	14	66	Northern White Cedar	Low	>20 feet	Pole
Hemlock	2	Log/Pole	10		Balsam Fir	Low	>20 feet	Pole
Northern White Cedar	4	Log/Pole	12		Hemlock	Low	>20 feet	Pole
Red Maple	40	Log	14					

157 4139 - Aspen, Mixed Deciduous Sawtimber Well 5.3 66 81-110 N/A

Two isolated blocks of upland aspen/red maple. Good quality aspen. Appears stand was accessed in past. Old skid trail headed to far SW block of stand 157. Stand will gradually convert to HW.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	36	Log	14		Black Cherry	Low	Variable	Sapling
Bigtooth Aspen	55	Log	14	66	Red Maple	High	Variable	Sapling
Yellow Birch	5	Log	13					
Northern White Cedar	2	Log/Pole	12					
Black Cherry	2	Log	10					

158 6119 - Mixed Lowland Deciduous Forest Poletimber Medium 27.9 45 51-80 N/A

Lowland maple with mixed conifer component. Creek runs though stand. Standing water in much of this area. Old gas line runs through stand as well.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	54	Pole	8	45	Willow spp.	Medium	10 - 20 feet	Tall Shrub
Balsam Fir	2	Pole	6		Tag Alder	Medium	10 - 20 feet	Tall Shrub
Quaking Aspen	11	Pole/Log	8		Northern White Cedar	Low	Variable	Sapling
Yellow Birch	10	Pole	6					
White Pine	3	Log	16					
Balsam Poplar	8	Pole	8					
Hemlock	5	Log/Pole	10					
Northern White Cedar	5	Pole	8					
Tamarack	2	Pole	6					

159 122 - Road/Parking Lot Nonstocked 1.1 Unspecified No

160 4130 - Aspen Sapling Well 28.9 16 Immature N/A

Stand was final harvested in 2007. All conifer was left along with some Green marked trees. Came back well to aspen and some HW.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	1	Log/XLog	15	
Quaking Aspen	71	Sapling	2	16
Black Cherry	10	Sapling	2	
Balsam Fir	2	Pole	8	
Hemlock	1	Log/Pole	10	
Red Maple	15	Sapling	2	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
161	42110 - Planted Red Pine	Sawtimber Well	7.1	68	111-140	N/A	Stand was planted to red pine in 1956. Stand was third row thinned in 1996. Stand was marked thinned in 2006.																																										
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162	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.5	71	111-140	N/A	Stand consists of red maple with some aspen throughout along with black cherry. Upland stand although southern portion contains a seasonal drain that flows at certain times of year.																																										
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165	42110 - Planted Red Pine	Poletimber Well	4.1	64	111-140	N/A	Stand third row thinned in 2017. - Small red pine plantation, adjacent to privately owned plantation of the same origin. No understory. Southern small piece not included in sale.																																										
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167	4130 - Aspen	Sapling Medium	44.1	7	Immature	N/A	Stand was final harvested in 2017. All conifer was left along with some scattered green marked trees. Small retention island was on east end. Stand is generally upland with numerous springs, vernal ponds, and other seasonally low spots. Came back a little patchy in spots but overall, a successful harvest, some area came back more to cherry then aspen.																																										
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