



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61036

Entry Year 2021

Acreage: 2,667

County Manistee

Management Area: Manistee Plains

Revision Date: 2019-06-13

Stand Examiner: Patrick Cotant

Legal Description:

T24N, R14W, sections 13, 14, 22, 23, 24

Identified Planning Goals:

Provide timber products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses.

Soil and topography:

This compartment lies in a lake plain Land Type Association (LTA). The entire compartment is flat and level. Lowland soils are poorly drained peat or muck. The upland soils consist of sands, loamy sands, and sandy loams.

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

State Forest ownership is well consolidated in this compartment. Approximately eighty percent of the land in this compartment is State owned. Land use is primarily rural residential and seasonal recreational. There is one new subdivision development on Bear Creek in the southwest corner of section 22. In addition, the private parcel in the northeast part of section 13 has been subdivided and most of these parcels are currently for sale.

Unique Natural Features:

MNFI records indicate several occurrences of wood turtle within the compartment.

Archeological, Historical, and Cultural Features:

Two abandoned railroad grades traverse this compartment.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Bear Creek and two tributaries, Third Creek, and Dutchman's Creek flow through this compartment. All are cold water trout streams with populations of Brook Trout, Brown Trout, Steelhead, and Coho Salmon. All of these streams are vulnerable to beaver damming, and therefore clearcutting within close proximity to the streams should be avoided.

Wildlife Habitat Considerations:

This compartment falls into 2 different landtype associations, both being flat lake plains, one poorly drained muck soils, surrounded by the second plains of sandy well drained soils. Windthrows were the main natural disturbance observed in this mostly wetlands landscape. Maintaining a diversity of age classes, species mixes, snags and down logs in upland forests, including some young aspen-dominated stands as well as mature bottomland mixed forest types and later successional aspen-white pine-fir forests, would be appropriate here. Including a hardwood component in pine stands will promote within-stand diversity. Future management of pine stands should incorporate small (2-5 acre) islands that are left relatively un-thinned within mature stands in order to provide winter roosting cover for turkeys. Allow some stands to become old and advance in successional stage, especially along stream valleys. Allow old lowland strip cuts to fill in naturally and eventually become uneven aged stands along with adjacent mature strips. Bottomland forests might thereafter be periodically harvested for large red maple and other species, but on long rotations and at low intensity. Some upland openings may be treated with a bush hog to set back woody encroachment and bracken, then possibly supplemented by seeding additional forage grasses/forbs, and then burned or mowed as needed. Some opportunities exist for local diversification of aspen age classes to enhance ruffed grouse cover through commercial harvest or habitat cuts. Lowland brush types offer a diversity of fruiting shrubs and should be maintained as such, perhaps with future brush mowing if shrubs become rank senescent. Species associated with aspen-fir-pine forest, streams, and extensive mixed swamp forest, include ruffed grouse, magnolia warbler, wood turtle, brown snake, mink, white-tailed deer, black bear, and pileated woodpecker. Turkeys, bluebirds, badgers, and box turtles, among other species, may be found in the upland shrub and grass communities.

This compartment falls within the Manistee Plains Management Area (MA) of the Regional State Forest Management

Plan. Featured wildlife species for this MA are woodcock, beaver, mallard, pileated woodpecker, red-headed woodpecker, ruffed grouse, turkey, deer, and wood duck. Based on the natural disturbance history of the land type associations within the Manistee Plains MA, the MA plan calls for managing the amount of open/semi-open lands at or above the current level to provide habitat for species which use openings.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel production is located three miles to the northeast. There appears to be good sand & gravel potential within the compartment on the uplands, but much of the compartment is covered by wetlands. The compartment is located within the Guelph (Niagaran) reef trend as well as the Antrim Shale gas play. Much of the State-owned mineral rights in the compartment are currently leased and held by production. There may be potential for additional reef production beneath the compartment, and hydrocarbon potential is considered high. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Establishment of a road along the east edge of the NWNW of section 14 would provide access to large block of state land that can only be accessed by crossing private property. Construction of this road should be a priority for access to timber and recreational opportunities. There is access to this area coming from the SW but the forest roads deteriorate in places and are less than ideal for timber management activities including hauling/trucking to the grade to the west.

Survey Needs:

The compartment is well surveyed. Additional corners were added last entry period. There are no current survey needs.

Recreational Facilities and Opportunities:

The Betsie River Snowmobile Trail crosses through section thirteen. There is the possibility of moving the snowmobile onto the railroad grade that passes through sections fourteen and twenty-two, however that will require the construction of a bridge to cross Bear Creek. Numerous opportunities exist for dispersed recreation throughout the compartment. Fishing in Second Creek, Third Creek, Dutchman Creek, and Bear Creek as well as trapping and deer, turkey and small game hunting opportunities are plentiful in this compartment.

Fire Protection:

Local fire coverage is provided by the Copemish-Cleon Volunteer Fire Department. DNR coverage is from the Platte River Field Office. Access is not a problem, and urban interface is not a problem. Travel time from Platte River office can be a concern on high and above fire days.

Additional Compartment Information:

The following reports from the Inventory are attached:

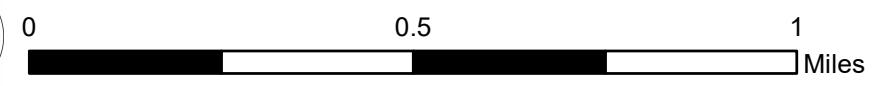
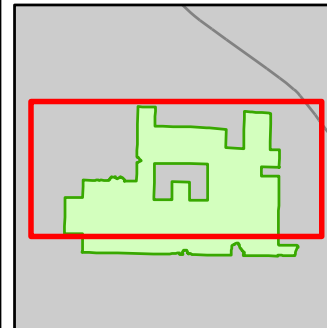
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

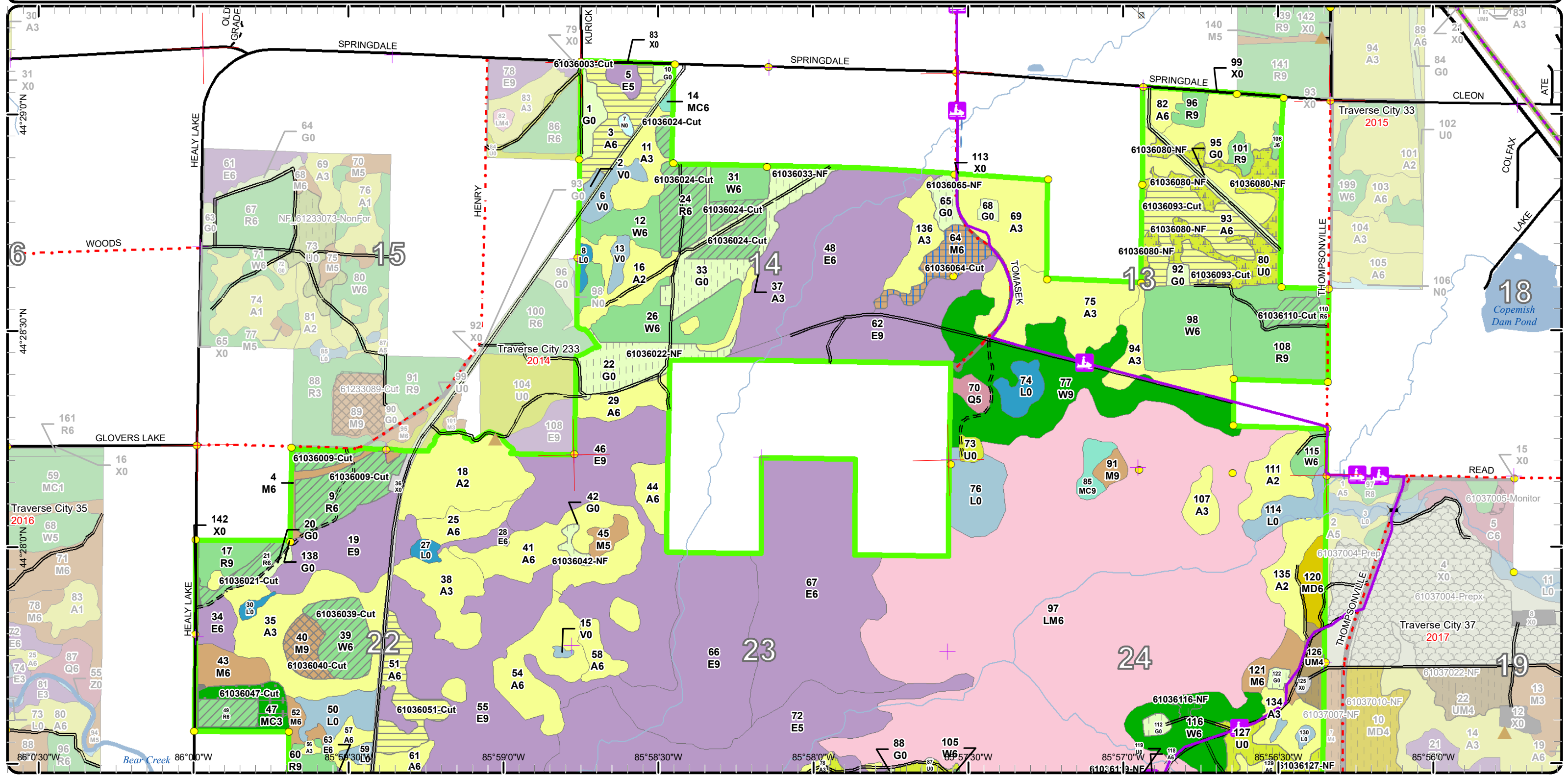
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 36
 T24N R14W Sec. 13,14,22-24
 County: Manistee
 Unit: Traverse City
 Mgmt Area: Manistee Plains
 YOE: 2021
 Acres: 2,667 GIS Calculated
 Examiner: Patrick Cotant
 Map Revised: 11/4/2019
 Map Phase: Post Review

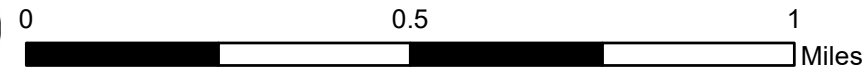


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| <ul style="list-style-type: none"> Miris Corners Re monumented Section Corners Survey Grade Corners Counties DNR - Secondary Forest Road DNR - Forest Access Route Federal / State Highway Federal / State / County - Paved Road Federal / State - Dirt / Gravel Road County - Gravel Road Snowmobile Trails Designated Hiking Trails Designated Bicycle Trails Designated Snowmobile Trails | <ul style="list-style-type: none"> Designated RailTrail Berms Bridges Culvert Lake/Pond Perennial River Lakes and Rivers Compartment Boundary Other Treatment - See Comments Selection (Group, Single Tree) Clearcut (w/Reserves) Harvest, Overstory Removal Seed Tree (w/Reserves) Thinning (Crown, Low, Systematic) Opening Maintenance | <ul style="list-style-type: none"> 411 - Northern Hardwood 413 - Aspen 419 - Mixed Upland Deciduous 421 - Planted Pines 422 - Natural Pines 429 - Mixed Upland Conifers 430 - Upland Mixed Forest 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest 613 - Lowland Mixed Forest 110 - Low Intensity Urban 122 - Roads/Parking Lot 310 - Herbaceous Openland 330 - Low Density Trees 622 - Lowland Shrub | <ul style="list-style-type: none"> 623 - Emergent Wetland 629 - Mixed non-forested wetland |
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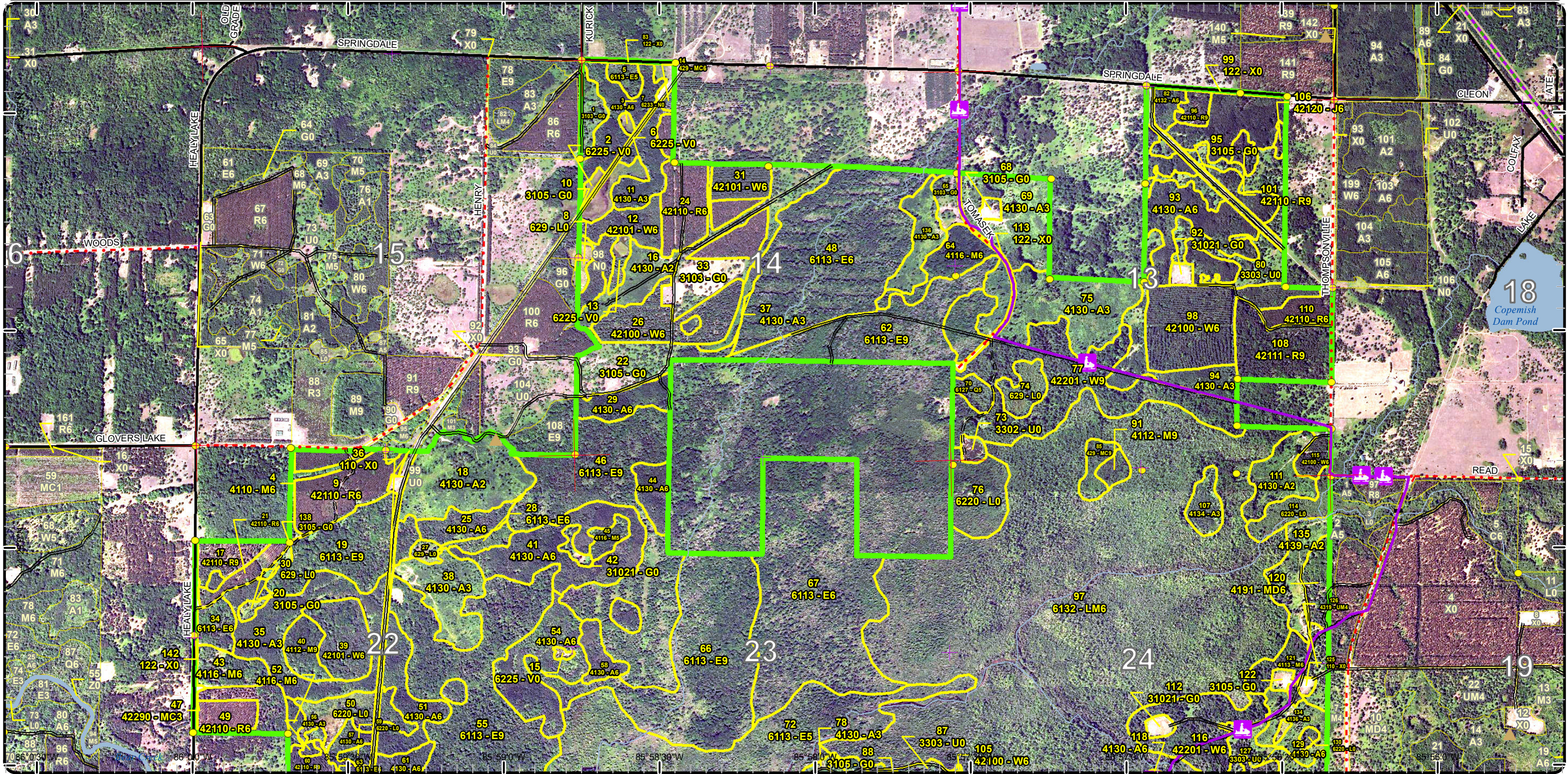


Stand Boundary Map

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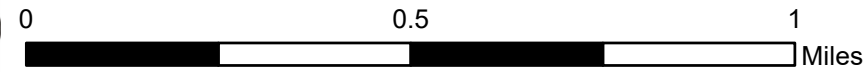


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
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- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
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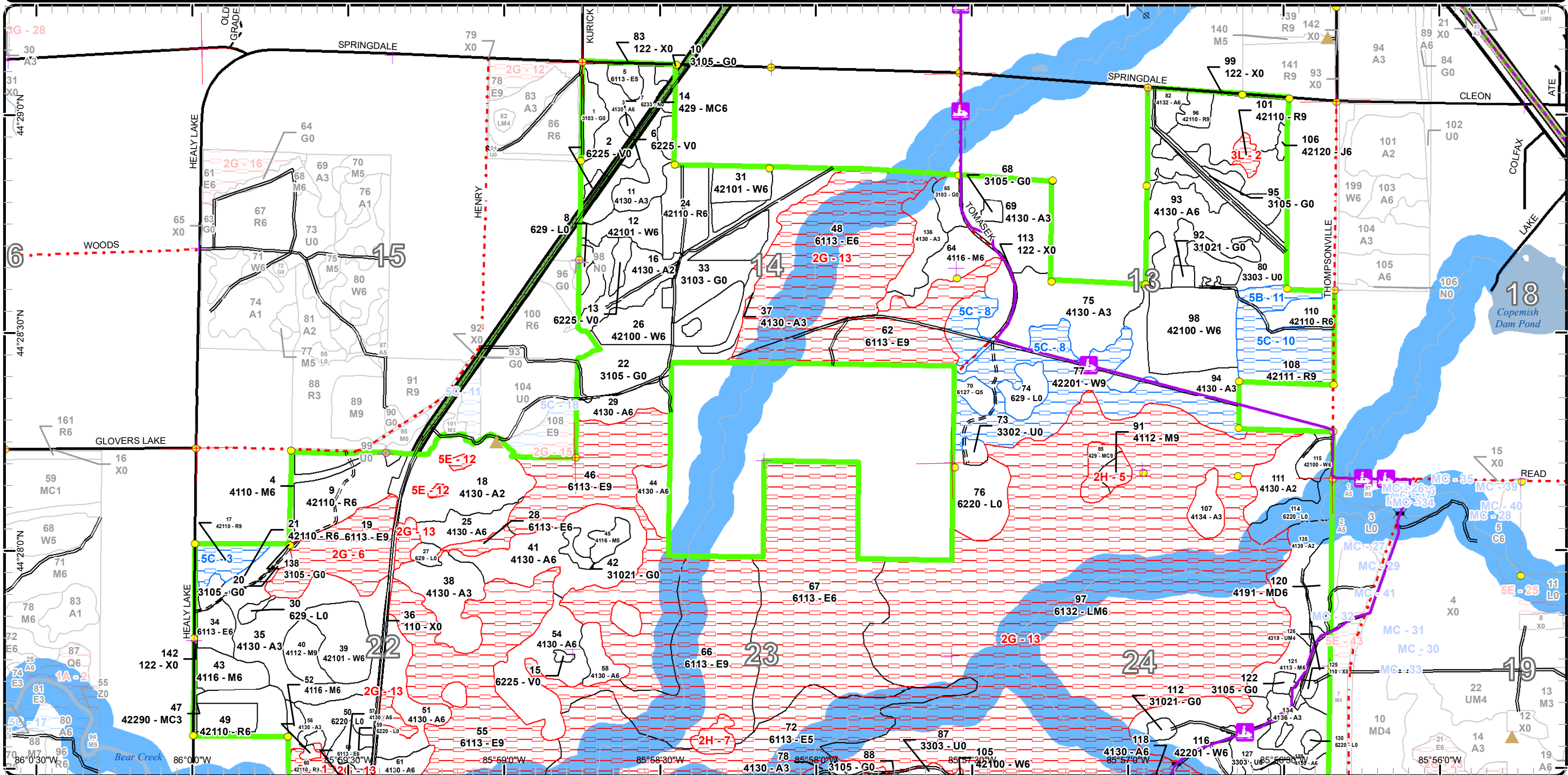


Special Conservation Areas & Site Conditions Map

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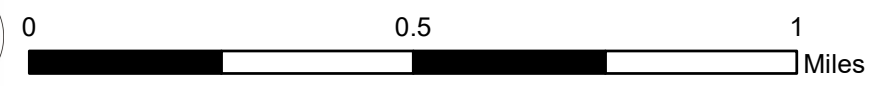


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- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- 🟩 Stand Boundaries
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- 🟦 Cold Water Streams
- 🟦 Cold Water Lakes
- 🟦 High Priority Trout Stream Buffer
- 🟩 Rail-Trail Corridor

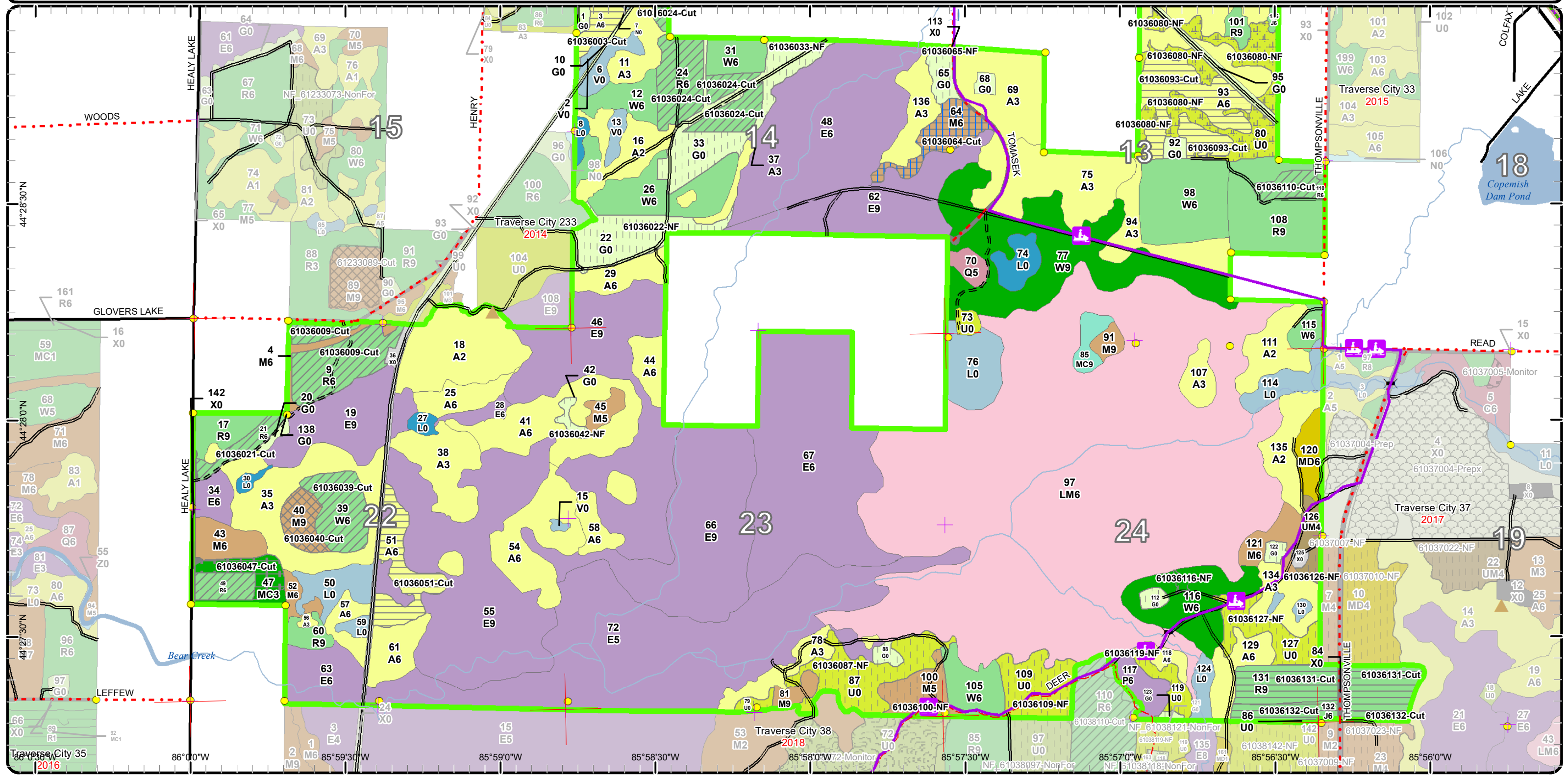


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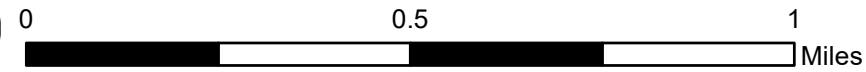


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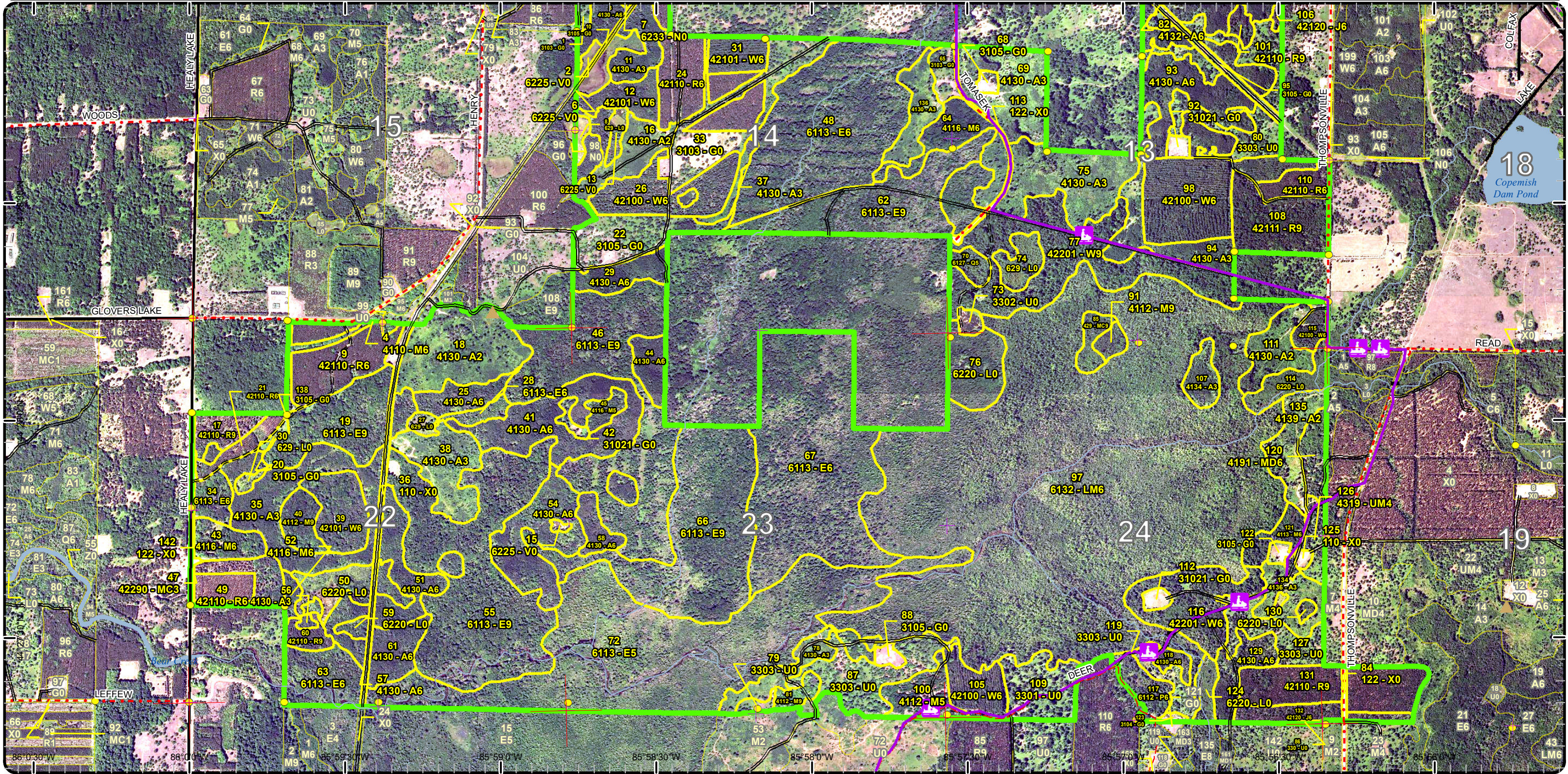


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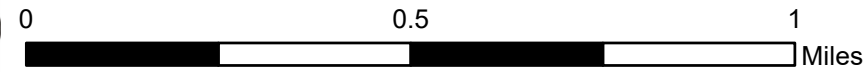


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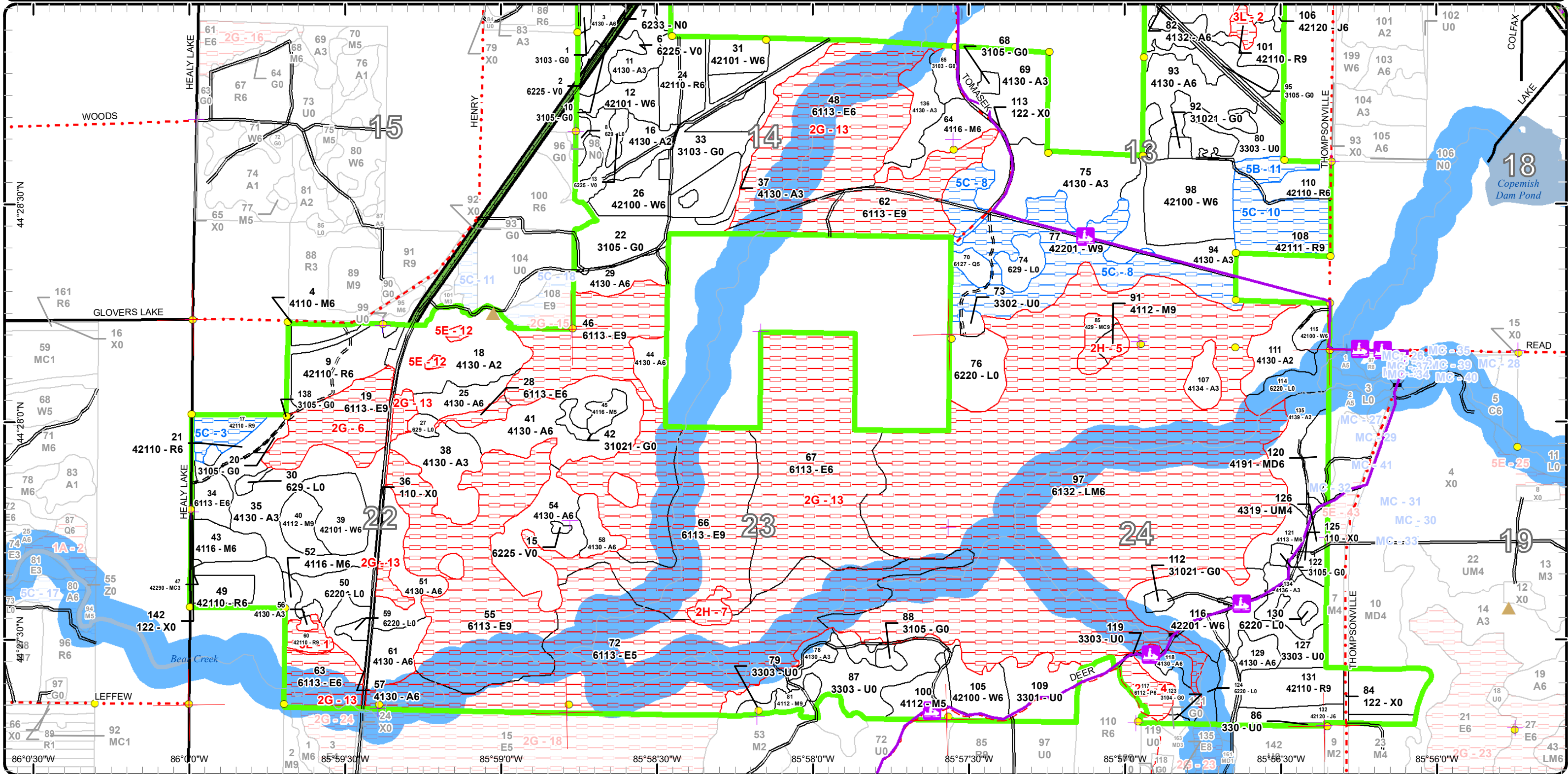


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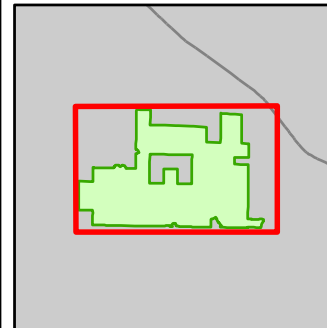


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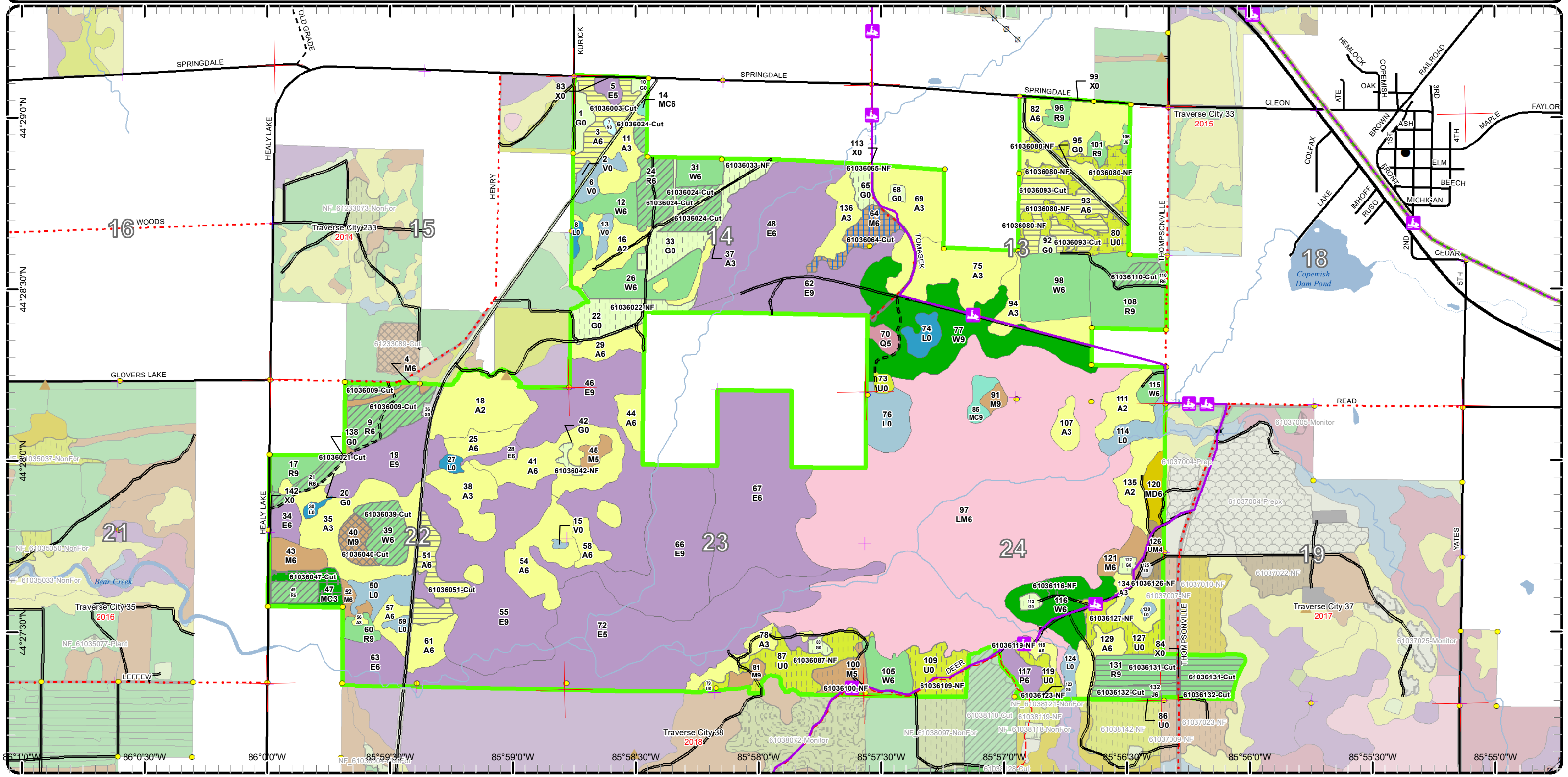


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	221	40	41	183	52	17	0	0	0	0	0	0	0	0	0	0	0	552
Bog	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Herbaceous Openland	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91
Jack Pine	0	0	0	0	0	0	11	1	0	0	0	0	0	0	0	0	0	0	12
Low-Density Trees	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Deciduous	0	0	0	0	0	190	12	7	0	119	209	140	110	0	0	0	0	0	787
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	499	0	0	0	0	0	0	0	499
Lowland Shrub	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Natural Mixed Pines	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Northern Hardwood	0	0	0	0	4	28	0	22	5	4	13	0	0	0	0	0	0	0	75
Red Pine	0	0	0	0	0	0	98	30	0	36	0	0	0	0	0	0	0	0	164
Upland Conifers	0	0	0	0	0	1	0	0	0	0	6	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Urban	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
White Pine	0	0	0	0	0	0	48	78	0	0	0	75	0	0	0	0	0	29	230
Total	297	221	40	59	201	271	196	138	5	159	727	215	110	0	0	0	0	29	2664



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 36
Total Compartment Acres: 2,667

Commercial Harvest - 241
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	67	0	0	0	0	0	0	0	0	67
Jack Pine	11	0	0	0	0	0	0	0	0	11
Natural Mixed Pines	0	0	0	0	0	9	0	0	0	9
Northern Hardwood	0	9	0	13	0	0	0	0	0	22
Red Pine	33	0	0	0	0	81	0	0	0	114
White Pine	0	0	0	0	0	18	0	0	0	18
Total	111	9	0	13	0	99	9	0	0	241

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	241	0	0	0	0	0	0	0	187	428
Next Step	0	0	44	0	0	44	178	0	0	266
Total	241	0	44	0	0	44	178	0	187	694



Stand Name	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:

3	61036003-Cut	18.2	4130 - Aspen	Poetimber Well	49		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest stand retaining scattered white pine along with majority of balsam fir to account for aesthetics and to provide thermal cover.
Specs: Stand 2 & 7 should be buffered slightly and no operations should take place within these stands. Treatment should also avoid operations within stand 5 aside from aspen along the edge. Access at NW corner of stand off Springdale Rd.

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

Acceptable Regen: Regeneration of aspen, red maple, white pine and balsam fir is expected.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

9	61036009-Cut	26.8	42110 - Planted Red Pine	Poetimber Well	58	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin red pine removing approximately 1/3 of volume focusing on removing suppressed, forked or otherwise poorly formed individuals.
Specs: Remove all of decline/mortality pocket, with guidance from forest health specialist.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

21	61036021-Cut	6.6	42110 - Planted Red Pine	Poetimber Well	64	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin red pine removing approximately 1/3 of volume with focus on removing suppressed, forked or otherwise poorly formed trees. Remove entirety of small pocket of decline, mortality.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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22	61036022-NF	22.4	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous	No
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Prescription May want/need to plant herbaceous species for wildlife forage needs. Consider an appropriate native species, but don't rule out pasture mix
Specs: (i.e. alfalfa/clover). Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire
Comment: cages or tubex.

Site Condition

Proposed Start Date: 10/1 /2020

24	61036024-Cut	32.8	42110 - Planted Red Pine	Poletimber Well	59	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin red pine removing approximately 1/3 of volume focusing on removal of suppressed, forked or otherwise poorly formed individual trees.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

33	61036033-NF	29.9	3103 - Rubus-Fern	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous	No
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Prescription This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil
Specs: will support it. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire
Comment: cages or tubex.

Site Condition

Proposed Start Date: 10/1 /2020



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
39 61036039-Cut	17.7	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	51	171- 200	Harvest	Systematic Thinning	4210 - Planted White Pine	Even-Aged	No
<p><u>Prescription</u> Row thin white pine, removing 2 and leaving 2 if necessary to accommodate harvesting equipment. Thin hardwoods throughout stand, most notably where present in pockets, lessening BA by ~1/3-1/2.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
40 61036040-Cut	9.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	93	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin stand to a basal of area range of 60-80 sq ft/ac. Create a couple medium size canopy gaps for regeneration ~.5 acre in size. Retain high quality, well formed trees representing stands current species composition.</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> Expect regeneration of red maple, black cherry, sugar maple and scattered white pine.</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 /2020</p>										
42 61036042-NF	2.4	31021 - Cool Season Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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47	61036047-Cut	8.6	42290 - Natural Mixed Pine	Sapling Well	25	1-50	Harvest	Overstory Removal	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Overstory removal of majority of red pine. Retain a few red pine adjacent to Healy Lake rd for aesthetics - objective to release established regeneration of jack pine, red pine, white pine and deciduous species.

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

49	61036049-Cut	7.5	42110 - Planted Red Pine	Poletimber Well	61	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin re pine removing approximately 1/3 of overall volume, focusing removal on forked, suppressed or otherwise poorly formed individuals.

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

51	61036051-Cut	17.9	4130 - Aspen	Poletimber Well	43		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest stand, retention to include trace white pine/conifers in southern reaches of stand along with a few scattered red maple and/or black cherry for vertical structure/soft mast.

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

Acceptable Expect aspen, red maple, black cherry and scattered white pine to regenerate.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
64 61036064-Cut	13.2	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	66	111-140	Harvest	Seed Tree with Retention	4139 - Aspen, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Treat stand by removing all aspen and majority of hardwood species throughout, retaining scattered individuals as seed trees, specifically some red maple and black cherry along with white pine from pocket along Tomasek rd. A few small islands/clumps of white pine could be retained which would probably be more appropriate than individual trees. Some pockets may be excessively wet in finger extending from SW corner of stand, any excessively wet areas should be avoided if appropriate.</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> Expect aspen, red maple, black cherry along with white pine to regenerate throughout stand.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
65 61036065-NF	5.6	3103 - Rubus-Fern	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		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. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Work around some of the existing beneficial vegetation to create a native pollinator plot of appropriate herbaceous species suited to site and soil conditions. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.</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 /2020</p>										
79 61036079-NF	2.2	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland 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. 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 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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80	61036080-NF	34.0	3303 - Mixed Low Density Trees	Nonstocked		NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
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Prescription 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. 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.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

87	61036087-NF	26.6	3303 - Mixed Low Density Trees	Nonstocked	Unspec ified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community matrix. Leave scattered mast producing and roost trees (singularly and in clumps), shrubs, and conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

88	61036088-NF	2.3	3105 - Mixed Upland Herbaceous	Nonstocked	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
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Prescription May want/need to plant herbaceous species for wildlife forage needs. Consider an appropriate native species, but don't rule out pasture mix (i.e. alfalfa/clover). Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.

Site Condition

Proposed Start Date: 10/1 /2020



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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93	61036093-Cut	31.1	4130 - Aspen	Poletimber Well	37		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest treatment area, retaining scattered, well formed black cherry and white pine. Some lightly stocked areas exist that should be harvested through. Cut all trees 2" or more in DBH. Some smaller DBH clones are present along with some smaller DBH pockets of red maple regen, harvest in an attempt to get as dense of stems/acre as possible, remove these areas from treatment if it makes sense - edge, regen retention, etc. Some areas of treatment may be removed at time of set up because of low stocking and/or small diameter - expect treatment acreage to be in the 25-30 acre range.

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

Acceptable Regen: Aspen species, red maple, black cherry, white pine and scattered oak species.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

100	61036100-NF	13.4	4112 - Maple, Beech, Cherry Association	Poletimber Medium	49	1-50	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community matrix. Leave scattered mast producing and roost trees (singularly and in clumps), shrubs, and conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable Regen:

Other Comment: WLD would like to return this stand to an upland brush type and manage with surrounding stands for wild turkey habitat, i.e. could leave islands of timber for roosting and for edge species.

Site Condition

Proposed Start Date: 10/1 /2020

109	61036109-NF	19.2	3301 - Low Density Deciduous Trees	Nonstocked			Unspec ified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
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Prescription 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. 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.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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110	61036110-Cut	7.4	42110 - Planted Red Pine	Poetimber Well	61	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin red pine by removing approximately 1/3 of the volume, focusing mainly on removal of suppressed, forked or otherwise poorly formed trees.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

112	61036112-NF	2.3	31021 - Cool Season Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
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Prescription Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

116	61036116-NF	1.3	42201 - Natural White Pine, Mixed Deciduous	Poetimber Well	34	1-50	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
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Prescription Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 3 /27/2019



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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
119 61036119-NF	7.0	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3205 - Mixed Upland 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. 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</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 /2020</p>										
122 61036122-NF	1.9	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Degraded old well site. Remove exotics either with herbicide or mechanically. Seed to site appropriate native grasses for wildlife food and cover, or Forest Cert. approved annuals/perennials. Consider also seeding in native forbs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
123 61036123-NF	0.9	3104 - Degraded	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Degraded old well site. Remove exotics either with herbicide or mechanically. Seed to site appropriate native grasses for wildlife food and cover, or Forest Cert. approved annuals/perennials. Consider also seeding in native forbs and planting native shrubs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
126 61036126-NF	2.6	4319 - Mixed Upland Forest	Poletimber Poor	27	Immature	NonForestMgt	Brush Cutting	3205 - Mixed Upland 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. 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</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> 3 /27/2019</p>										
127 61036127-NF	15.6	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland 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. 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</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 /2020</p>										
131 61036131-Cut	33.0	42110 - Planted Red Pine	Sawtimber Well	59	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees on site, retaining some red pine within small islands excluded from sale area on either side of thompsonville road for aesthetic purposes - allow to grow to old age.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine planted at plantation spacing.</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 /2020</p>										
132 61036132-Cut	11.1	42120 - Planted Jack Pine	Poletimber Well	58	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest all merchantable trees, and attempt to cut all deciduous and coniferous regeneration in order to prep for planting red pine with stand 131.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine at plantation spacing.</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 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment Acreage Proposed: 430.7

Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant : Examiner

Compartment: 36

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
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Dominant Site Conditions

				5B	5C	MC	2G	2H	3L	5E
552	550	0	2		0		0		0	2
12	12	0	0							
91	91	0	0				0			
13	13	0	0							
108	108	0	0						0	
9	0	0	9				9			
5	5	0	0							
787	16	0	771		0		766	5		
499	0	0	499				499			
65	65	0	0				0			
1	1	0	0							
9	9	0	0			0				0
11	11	0	0							
77	73	0	4				0	4		
164	120	35	8		35		0		8	
7	1	0	6					6		
7	7	0	0							
20	20	0	0				0			
230	148	81	0	6	75					
2,667	1,250	117	1,300	6	111	0	1,275	14	8	2
	47%	4%	49%							

*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	3L: Other wildlife concerns	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Retain stand long term for roosting habitat.</p>							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Patrick Cotant : Examiner

Compartment: 36
Year of Entry: 2021

2	Unavailable	3L: Other wildlife concerns	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Similar to stand 86, but slightly less volume and smaller diameter. Could hold for one more entry period. Stand may have value as turkey roosting habitat.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant : Examiner

Compartment: 36

Year of Entry: 2021

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	75	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1,234	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water 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	3103 - Rubus-Fern	Nonstocked	6.6			No																																																					
2	6225 - Bog	Nonstocked	1.6			No																																																					
3	4130 - Aspen	Poletimber Well	18.2	49		N/A	good quality aspen throughout, some lowland pockets to avoid if harvest takes place. scattered conifers of white pine and balsam fir could be left for thermal cover and aesthetics. *** may need survey along western edge of stand																																																				
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4	4110 - Sugar Maple Association	Poletimber Well	5.1	70	51-80	N/A	multiple stemmed trees in E/W finger, more single stemmed individuals along west edge of stand but still not great quality.																																																				
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5	6113 - Lowland Maple	Poletimber Medium	3.9	58	51-80	N/A	Lowland stand, western portion is more open with some mortality and general lower stocking contributing to lower density.																																																				
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6	6225 - Bog	Nonstocked	6.3			No																																																					
7	6233 - Wet Meadow	Nonstocked	1.1			No	Stand 2 P#1297, 1296 mostly sedge/gr minimal willow same as #7 wet meadow 6233 Stand 6 P#1298 Willow at N end some leatherleaf Otherwise same as #7 Wet Meadow 6233																																																				
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8	629 - Mixed non-forested wetland	Nonstocked	2.3			No																																																																	
9	42110 - Planted Red Pine	Poletimber Well	26.8	58	171-200	N/A	ba in low end of 171-200 range, thin by removing 1/3 of volume, taking out defect and suppressed trees. remove pocket of decline/mortality in center of stand, consult with forest health regarding this area. beech understory more dense in east/north.																																																																
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10	3105 - Mixed Upland Herbaceous	Nonstocked	4.2			No	Well site is adequately regetated some aspen suclerscladPussy toesseveral Honeysuckle1 junipercloverBrome SJW Plantain sp.																																																																
11	4130 - Aspen	Sapling Well	13.4	16	Unspecified	N/A	Regenerating aspen stand with red maple, cherry and scattered white pine present. Stocking/stems/acre looks good. High water table present along SW edge of stand adjacent to stand 6.																																																																
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12	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	14.8	59	111-140	N/A	stand has not been thinned, providing good cover and structural diversity with surround a3 stands. could cut portion of stand andreplant to red pine with adjacent plantations when the time comes.																																																																
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13	6225 - Bog	Nonstocked	3.4			No	South Half: juneberry, bracken, blueberry.																																																																
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14	429 - Mixed Upland Conifers	Poletimber Well	1.0	49	51-80	N/A	Stand is a combination of planted white pine and white spruce that are part of a larger plantation on adjacent private property. Plantation was planted across the line on to state land. White pine is of bushy/open grown form.																																																																
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15	6225 - Bog	Nonstocked	0.8	0		No	Small leatherleaf bog with white pine and aspen around perimeter.																																															
16	4130 - Aspen	Sapling Medium	17.6	7	Unspecified	N/A	Stocking is good, aspen saplings growing with good form. Some areas of high water table throughout stand. Stand was harvested in winter of 2012 under tsale contract 090-11-01 by Zoscza Logging.																																															
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17	42110 - Planted Red Pine	Sawtimber Well	9.1	83	81-110	N/A	Red pine treated multiple times, BA hovers around 110 sq ft/ac. Regen of deciduous and JP is dense in places.																																															
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18	4130 - Aspen	Sapling Medium	37.4	7	Unspecified	N/A	Aspen and red maple regenerating well along with scattered balsam fir and black cherry. Retention islands were centered around some more wet areas of stand along with scattered overstory cherry being left which are providing nice soft mast source - lots of wildlife activity throughout stand. Stand was treated under tsale contract 090-11-01, harvested in winter of 2012 by Zoscza Logging. -PC																																															
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19	6113 - Lowland Maple	Sawtimber Well	31.7	93	111-140	N/A	wet, standing water throughout much of stand. some small pockets high and dry at times.																																															
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20	3105 - Mixed Upland Herbaceous	Nonstocked	1.5			No																																																
21	42110 - Planted Red Pine	Poletimber Well	6.7	64	141-170	N/A	consider treating stand by removing approximately 1/3 of overall volume with focus on defected, suppressed or otherwise poorly formed individuals. remove entirety of small pocket of decline/mortality. Stand was harvested in summer 2012 under tsale contract 075-11-01. -PC																																															
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22	3105 - Mixed Upland Herbaceous	Nonstocked	22.4			No	Photo # 1302. Apple, juneberry, honeysuckle, trout lily, rubus, SKW, SJW, sedge. (hair grass?).																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																					
24	42110 - Planted Red Pine	Poletimber Well	32.8	59	141-170	N/A	stand growing well, thin once more before final harvest/replant, consider that treatment with adjacent white pine. thin removing 1/3 of volume removing defect and suppressed trees. Stand was thinned in summer of 2012 under tsale contract 075-11-01. -PC																					
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25	4130 - Aspen	Poletimber Well	10.4	34		N/A	Smaller diameter aspen in general with more pockets of saplings present. Southern and eastern edge of stand area are wet.																																																
	Canopy Species	% Cover	Size Class	DBH	Age		----------------	---------	--------------	-----	-----		Red Maple	10	Pole/Sapling	6			Quaking Aspen	70	Pole/Sapling	6	34		Bigtooth Aspen	15	Pole/Sapling	7	34				Sub-Canopy Species	Density	Avg. Height	Size		--------------------	---------	-------------	---------		Red Maple	Medium	Variable	Sapling		Black Cherry	Low	Variable	Sapling				
26	42100 - Planted White Pine	Poletimber Well	24.7	62	111-140	N/A	stand has nice white pine regen advancing well in the understory, could leave overstory in tact one more entry period then remove to allow regen to advance. Stand was thinned under tsale contract 075-11-01 in summer of 2012. -PC																																																
	Canopy Species	% Cover	Size Class	DBH	Age		----------------	---------	------------	-----	-----		White Pine	95	Pole/Log	8	62				Sub-Canopy Species	Density	Avg. Height	Size		--------------------	---------	-------------	---------		White Pine	Full	5 - 10 feet	Sapling																					
27	629 - Mixed non-forested wetland	Nonstocked	2.4			No																																																	
28	6113 - Lowland Maple	Poletimber Well	8.0	52	51-80	N/A	Stand occupies lowland seasonal drainage. wet throughout, cedar present in pockets.																																																
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29	4130 - Aspen	Poletimber Well	11.3	34		N/A	Good quality aspen stand, some variability with pockets of poles and small logs along with portions of larger saplings in the 3-4" range. Southern edge has some lowland influence but should all be operable.																																																
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30	629 - Mixed non-forested wetland	Nonstocked	1.8			No																																																	
31	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	9.5	59	111-140	N/A	thinned once, low quality overall. hold until adjacent red pine plantation is cut and replanted.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
33	3103 - Rubus-Fern	Nonstocked	29.9			No	Photo #1301. Sedge, SJW, open grown multi stemmed black cherry logs and saplings, couple of wp logs but most are saplings, hawkweed, witch hazel, blueberry, honeysuckle.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Medium		Sapling	
								Black Cherry	Full		Pole	
34	6113 - Lowland Maple	Poletimber Well	7.4	62	51-80	N/A						
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	63	Pole/Log	8	62
								Quaking Aspen	35	Pole/Log	8	
								Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	Medium	Variable	Sapling									
Beech	Low	5 - 10 feet	Sapling									
Ironwood	Low	Variable	Sapling									
Muscledwood/Hornbeam	Low	10 - 20 feet	Sapling									
35	4130 - Aspen	Sapling Well	41.2	26	Immature	N/A	will be pole sized stand next yoe, dbh averages 4" overall with pockets of merchantable timber and more of the stand in the 3-5" range. growing well, some lowland along edges.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	60	Sapling/Pole	4	26
								Black Cherry	20	Sapling	3	26
Red Maple	15	Sapling/Pole	4									
Sub-Canopy Species	Density	Avg. Height	Size									
Black Cherry	Medium	< 5 feet	Sapling									
36	110 - Low Intensity Urban	Nonstocked	8.9			No						
37	4130 - Aspen	Sapling Well	4.9	8	Unspecified	N/A	Narrow stand along E-type. Regenerating well. Stand was harvested in summer 2012 under tsale contract 075-11-01. -PC					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	10	Sapling	1	
								Quaking Aspen	80	Sapling	2	8
Black Cherry	10	Sapling	2									
38	4130 - Aspen	Sapling Well	22.3	7	Unspecified	N/A	Aspen stand regenerating well with black cherry overstory retention scattered throughout stand, concentrated in the eastern and northern portions of stand. Stand harvested in winter of 2012 under tsale contract 090-11-01 by Zoscak Logging. -PC					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	95	Sapling	2	7
Sub-Canopy Species	Density	Avg. Height	Size									
Black Cherry	Low	Variable	Sapling									
39	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	17.7	51	171-200	N/A	White pine plantation not yet thinned, scattered red maple and black cherry throughout with concentrated pocket in northern portion of stand. White pine variable in terms of height/dbh.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	70	Pole	7	51
Black Cherry	12	Log	14									
40	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.2	93	111-140	N/A	fair quality red maple stand with black cherry and trace sugar maple. potential stand to thin, consider adjacent wp stand as well because of proximity.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	10	Pole/Log	9	
Red Maple	75	Log/Pole	10	93								
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Red Maple	Low	Variable	Sapling									
Ironwood	Low	Variable	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
41	4130 - Aspen	Poletimber Well	37.0	34	Immature	N/A	aspen stand growing well, some wet pockets. of the few upland aspen stands along grade this one is the best quality and most consistent in terms of size and stocking. treat next yoe, can access from the west or off frade if improvements are made.																																															
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42	31021 - Cool Season Grass	Nonstocked	2.4			No	Photo # 1303. An old landing?																																															
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43	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	10.5	45	51-80	N/A	mixed stand of aspen and red maple, variable size throughout, red maple is clumpy in form.																																															
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44	4130 - Aspen	Poletimber Well	8.5	43		N/A	Upland ground extends to PVT to the east, difficult to access otherwise. Potentially from stand 41 using crane mats or in frozen conditions, would recommend waiting until 41 is cut which will probably be next YOE.																																															
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45	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	4.4	34	1-50	N/A	Small pocket of cherry and aspen regeneration within a larger stand of slightly older age. Growing well, providing good diversity with larger aspen stand surrounded by e-types.																																															
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46	6113 - Lowland Maple	Sawtimber Well	91.8	97		N/A	Variable aged stand due to past management using strip cuts in an attempt to regenerate species present. Some strips have red maple regeneration along with tag alder - other areas within strips have cattails and switch grass dominating them. Much of stand has standing water throughout, attempt to cut some of stand 46 when adjacent aspen stands are treated. Stand was strip cut in 1983 by wildlife division. Uniform two aged structure created by treatment. Delineated as one stand, not strips.																																												
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47	42290 - Natural Mixed Pine	Sapling Well	11.2	25	1-50	N/A	r7 stand with jack pine, white pine, red maple and black cherry regen along with trace red pine regen and scattered aspen clones regenerating. could consider removing larger dbh overstory red pine while thinning adjacent red pine. Red pine seed tree treatment from yoe 1991 resulted in good jack pine regeneration but no red pine regeneration.																																												
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48	6113 - Lowland Maple	Poletimber Well	93.3	109		N/A	Stand was strip cut in 1988 by wildlife division. Uniform two aged structure created by treatment. Stand has minor components of quaking aspen and yellow birch.																																												
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49	42110 - Planted Red Pine	Poletimber Well	7.5	61	171-200	N/A	consider treating stand again with thinning, removing approximately 1/3 of volume focusing on defected, suppressed or otherwise poorly formed individuals. Stand was harvested in summer 2012 under tsale contract 075-11-01. -PC																																												
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50	6220 - Alder/willow	Nonstocked	11.8			No	Willow, tag alder, red maple, black ash. Photo # 1310																																												
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51	4130 - Aspen	Poletimber Well	17.9	43		N/A	excluded lowland within stand, remainder should be manageable. fair quality aspen with some variability in size - with red maple and black cherry present. consider final harvest avoiding wet areas, dip into adjacent lowland where possible. 42 yrs old so could hold until next yoe if thats desirable.																																												
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52	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	4.0	44	51-80	N/A	mixed stand of decent red maple with mediocre aspen, trace oak, some black cherry. high water table throughout although stand is for the most part dry.																																																																	
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54	4130 - Aspen	Poletimber Well	32.3	34		N/A	Aspen stand with black cherry and pockets of white pine in northern portion of stand. Some variability in terms of size and stocking of aspen with some areas of large saplings and small logs present, overall stand is a pole sized stand.																																																																	
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56	4130 - Aspen	Sapling Well	0.9	17	Unspecified	N/A	Small aspen stand regenerating well. Scattered overstory red pine on south edge of stand.																																																																	
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58	4130 - Aspen	Poletimber Well	10.5	34		N/A	Decent quality aspen stand, upland for the most part with some wet pockets along southern edge. Scattered white pine and beech regen, some areas of dense black cherry regen.																																																																	
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59	6220 - Alder/willow	Nonstocked	2.3			No	Photo # 1311. Widely scattered black cherry poles, bracken, hawkweed, winter green, sedge. Grades into wet black cherry and aspen with some viburnum.
		Sub-Canopy Species		Density	Avg. Height	Size	
		Tag Alder		Medium		Tall Shrub	
60	42110 - Planted Red Pine	Sawtimber Well	5.2	58	171-200	N/A	consult with wld on hard factor. isolated, small acreage rp stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		98	Log/Pole	10	58	Beech	
						Quaking Aspen	
						Black Cherry	
						Density	Avg. Height
						Low	< 5 feet
						Medium	< 5 feet
						Low	< 5 feet
							Size
							Sapling
							Sapling
							Sapling
61	4130 - Aspen	Poletimber Well	12.4	34	Immature	N/A	aspen stand with black cherry and red maple throughout, scattered white pine and occasional cedar along south and east edge.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		75	Pole/Sapling	5	34	Black Cherry	
Bigtooth Aspen		10	Pole	5			
Black Cherry		13	Pole/Sapling	5			
						Density	Avg. Height
						Medium	Variable
							Size
							Sapling
62	6113 - Lowland Maple	Sawtimber Well	46.8	109	Unspecified	N/A	Lowland stand with old grade on northern edge. Dominated by red maple with cedar in pockets throughout. some mortality throughout specifically in ash with some aspen beginning to break apart as well. standing water throughout most of stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		70	Log/Pole	13	109	Red Maple	
Black Ash		10	Pole/Sap/Log	6		Northern White Cedar	
Northern White Cedar		10	Pole/Log	8		Black Ash	
						Density	Avg. Height
						Medium	Variable
						Low	Variable
						Medium	Variable
							Size
							Sapling
							Pole
							Sapling
63	6113 - Lowland Maple	Poletimber Well	19.5	49	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		90	Pole/Log	8	49	Red Maple	
Quaking Aspen		10	Pole	7		Northern White Cedar	
						Black Ash	
						Tag Alder	
						Black Ash	
						Tag Alder	
						Tag Alder	
						Tag Alder	
						Red Maple	
						Northern White Cedar	
						Black Ash	
						Tag Alder	
						Density	Avg. Height
						Medium	Variable
						Low	Variable
						Medium	5 - 10 feet
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
64	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	13.2	66	111-140	N/A	Deciduous stand with red maple dominant, black cherry present throughout, aspen scattered with clone in northern lobe. White pine pocket along tomasek rd along with scattered individuals localized along southern edge. Potential treatment removing aspen and marking to leave some trees or a size class of smaller red maple in an attempt to regenerate stand, expecting significant browse on any regeneration.																																										
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65	3103 - Rubus-Fern	Nonstocked	5.6			No	Hawkweed, pussytoes, snowmobile trail. Photo # 1313.																																										
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66	6113 - Lowland Maple	Sawtimber Well	84.9	99	51-80	N/A	Lowland stand dominated by red maple, ash is declining rapidly with a fair amount of dead standing. Stand is wet throughout, creek follows western stand boundary with a spring/seep extending west into upland aspen eventually forming small creek where it nears Dutchmen Creek. Cedar in pockets along with some areas of fir understory.																																										
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67	6113 - Lowland Maple	Poletimber Well	119.1	80	Unspecified	N/A	Lowland e-type with cedar, no legitimate access aside from by foot, difficult to reach regardless. Standing water throughout much of stand, numerous small seeps/springs feeding Dutchmen and Bear Creeks to the west and south of stand.																																										
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68	3105 - Mixed Upland Herbaceous	Nonstocked	1.9			No	Photo # 1314. SKW, SJW, CSG, sedge, bracken, white pine, black cherry, quaking aspen, cladonia, hawkweed, mullin, strawberry.																																										
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69	4130 - Aspen	Sapling Well	28.5	7	1-50	N/A	Deciduous regen advancing well, dominated by aspen and red maple. Deer and grouse using stand for thermal cover. Retain some clumps of pine.																																										
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70	6127 - Lowland Pine	Poletimber Medium	4.6	35	51-80	N/A	Lowland conifer stand, high water table throughout with some standing water in places. More of a bog though, similar to stand 74 to the east but with more tree cover.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
72	6113 - Lowland Maple	Poletimber Medium	170.0	49	Unspecified	N/A	Expansive lowland stand with creeks, seeps, springs and standing water throughout. stand contains confluence of Dutchmen Creek and Bear Creek. Standing water throughout much of stand, occasional very slightly more upland areas but still wet throughout much of year with mucky soils. Some variability in terms of size and stocking throughout stand, resulting most likely from blowdown pockets.																																	
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73	3302 - Low Density Conifer Trees	Nonstocked	2.5																																					
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74	629 - Mixed non-forested wetland	Nonstocked	8.3			No																																		
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76	6220 - Alder/willow	Nonstocked	18.7			No	Tag alder in good shape. red maple, viburnum, grape species, paper birch, balsam fir, occassional white pine log, rubus.																																	
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77	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	75.2	109	51-80	N/A	Stand dominated by large white pine. Stand occupies transition area between lowland/upland. Heavy pockets of cedar and hemlock heavily used by deer in winter.																																	
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78	4130 - Aspen	Sapling Well	11.6	8	Immature	N/A	stand regenerating well, mix of aspen, red maple and beech with cherry and white pine throughout. some variability in terms of stocking in places.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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79	3303 - Mixed Low Density Trees	Nonstocked	2.2		Unspecified	No	WLD is interested in managing this stand in conjunction with similar Upland Brush stands in this area as part of a larger wild turkey habitat project. The juxtaposition of lowland and upland hardwoods, upland brush (shrubs), grass, pine stands (winter roosting), and other cover types makes this area (multiple compartment area) ideal for wild turkey management
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80	3303 - Mixed Low Density Trees	Nonstocked	34.0			No	Doughnut shaped P# 1263SJWT. LilyHoneysuckleSKW Rubus
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Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low		Pole
Mixes Sedges/Grasses	Medium		Non-Wood
Red Maple	Trace		Log
White Pine	Medium		Log
Poverty Grass	Low		Non-Wood
Black Cherry	Low		Pole
Bracken Fern	High		Non-Wood

81	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.4	85	81-110	N/A	small pocket of hardwood, reserved as long term retention from adjacent clearcut to the south.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	65	Log/Pole	11	85
Red Maple	30	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	5 - 10 feet	Sapling

82	4132 - Aspen, Jack Pine	Poletimber Well	4.6	37		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole/Sapling	6	
Bigtooth Aspen	55	Pole/Sapling	5	37
Jack Pine	20	Pole	8	64

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	Variable	Sapling
Black Cherry	High	Variable	Sapling
White Pine	Low	5 - 10 feet	Sapling
Red Maple	High	Variable	Sapling
Black Cherry	High	Variable	Sapling
White Pine	Low	5 - 10 feet	Sapling

83	122 - Road/Parking Lot	Nonstocked	1.0	0	Unspecified	No	Springdale Rd. and accompanying ROW.
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84	122 - Road/Parking Lot	Nonstocked	1.2		Unspecified	No	Phragmites along roadway, concentrated to areas <1 mile north of 13 mile rd where high water table exists.
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85	429 - Mixed Upland Conifers	Sawtimber Well	5.8	98	81-110	N/A	Small mostly upland stand within large lowland complex, consists of large white pine along with hemlock and red maple. Trace beech present, scattered overstory balsam fir.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log	14	
White Pine	55	Log/XLog	16	98
Hemlock	25	Pole/Log	8	

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																															
86	330 - Low-Density Trees	Nonstocked	0.5	0	Unspecified	No	Small sliver of U-type, could not merge with stand to the south for some reason but it should be part of larger opening complex.																															
87	3303 - Mixed Low Density Trees	Nonstocked	26.6		Unspecified	No	WLD is interested in managing this stand in conjunction with similar Upland Brush stands in this area as part of a larger wild turkey habitat project. The juxtaposition of lowland and upland hardwoods, upland brush (shrubs), grass, pine stands (winter roosting), and other cover types makes this area (multiple compartment area) ideal for wild turkey management.																															
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Witch Hazel	Trace		Tall Shrub																																			
Red Maple	Medium		Sapling																																			
Black Cherry	High		Pole																																			
88	3105 - Mixed Upland Herbaceous	Nonstocked	2.3		Unspecified	No	WLD is interested in managing this stand in conjunction with similar Upland Brush stands in this area as part of a larger wild turkey habitat project. The juxtaposition of lowland and upland hardwoods, upland brush (shrubs), grass, pine stands (winter roosting), and other cover types makes this area (multiple compartment area) ideal for wild turkey management.																															
91	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.6	98	81-110	N/A																																
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Red Maple	Low	Variable	Sapling																																			
White Pine	Low	Variable	Sapling																																			
Balsam Fir	Medium	5 - 10 feet	Sapling																																			
92	31021 - Cool Season Grass	Nonstocked	2.2			No	Photo # 1267-68. Mullin, hawkweed, poverty, pussytoes, trout lily.																															
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St. Johns Wort	Medium		Non-Wood																																			
93	4130 - Aspen	Poletimber Well	64.2	37		N/A	Aspen stand with red maple and black cherry scattered evenly throughout. White pine present in small pockets of stand along with a relatively even dispersal throughout understory. Aspen within stand is growing fairly well in spots however overall there is significant variability in terms of size, quality and stocking with pockets of saplings and lower density, areas of log sized clones and also extensive portions of small poles which contributes to the average pole size with approximately 6-8" trees dominating stand. Recommend waiting until next YOY to treat stand, could treat portions to break up larger stand focusing on the larger DBH clones, or if more aspen is needed for age class diversity.																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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94	4130 - Aspen	Sapling Well	17.9	16	Immature	N/A	Aspen saplings growing well, balsam fir of multiple size classes scattered throughout.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	2	
Quaking Aspen	45	Sapling	2	16
Bigtooth Aspen	20	Sapling	2	16
Balsam Fir	10	Pole/Sapling	5	
Black Cherry	15	Sapling	2	

95	3105 - Mixed Upland Herbaceous	Nonstocked	7.1			Managed Opening	P# 1262 HAW ChCh Clad Hawkweed
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Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Low		Tall Shrub
Blackberry/Raspberry	Low		Tall Shrub
Blackberry/Raspberry	Low		Tall Shrub
Blackberry/Raspberry	Low		Tall Shrub
Black Cherry	Trace		Sapling
Mixed Grasses	Medium		Non-Wood
Poverty Grass	Medium		Non-Wood
Spotted Knapweed	Medium		Non-Wood
Bracken Fern	Medium		Non-Wood

96	42110 - Planted Red Pine	Sawtimber Well	4.4	65	81-110	N/A	Red pine was thinned last YOY, growing well with deciduous regeneration filling in nicely throughout stand. Stand was thinned in spring of 2014 under tsale contract 069-11 by Dan Bundy Logging.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Log/Pole	13	65

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	Variable	Sapling
Beech	Low	5 - 10 feet	Sapling
Black Cherry	Medium	Variable	Sapling

97	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	499.3	98	Unspecified	N/A	Lowland stand, wet throughout. Small areas near perimeter might be able to be cut with adjacent upland stand but sensitive soils and water quality issues will limit any large scale management. Stand contains the confluence of Bear and Third Creeks, contains numerous springs/seeps and small feeder creeks leading to both of these water courses. Cedar is scattered but most prevalent near creeks, as is hemlock and white pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Pole/Log	10	98
Balsam Fir	10	Pole/Sapling	7	
Northern White Cedar	25	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Black Ash	Low	Variable	Sapling

98	42100 - Planted White Pine	Poletimber Well	39.3	61	171-200	N/A	White pine plantation has been row thinned, deciduous understory thriving in areas along with some dense pockets of white pine regen concentrated in northern half of stand where rows are oriented e/w. southern half of stand fows are oriented n/s, understory is significantly more advanced with more aspen present in pockets. could consider treating north half with stand 108.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	100	Pole/Log	9	61

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	Sapling
Quaking Aspen	Medium	5 - 10 feet	Sapling
Black Cherry	Medium	5 - 10 feet	Sapling
White Pine	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
99	122 - Road/Parking Lot	Nonstocked	1.5			Managed Opening						
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Medium	5 - 10 feet	Sapling	
								Black Cherry	Medium	5 - 10 feet	Sapling	
100	4112 - Maple, Beech, Cherry Association	Poletimber Medium	13.4	49	1-50	N/A	variability in terms of size and density. red maple saplings and small poles dominate with some larger hardwood species scattered around stand. center of stand is generally more open.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	85	Pole/Sap/Log	5	49
								Black Cherry	10	Log/Pole	13	
101	42110 - Planted Red Pine	Sawtimber Well	3.3	65	171-200	N/A	small stand with log sized red pine throughout, some jack pine but jp are beginning to all out of stand. some defect remains in red pine, could thin when surrounding aspen is treated, given small stand area, recommend leaving pockets for roosting as opposed to seed tree or individual tree retention for aesthetics.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Pine	95	Log	13	65
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Medium	Variable	Sapling	
Black Cherry	Medium	Variable	Sapling									
Red Maple	Medium	Variable	Sapling									
Black Cherry	Medium	Variable	Sapling									
105	42100 - Planted White Pine	Poletimber Well	14.2	61	141-170	N/A	white pine plantation with some scattered hardwood species in overstory. dense understory of red maple, beech and white pine throughout stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	90	Pole/Log	8	61
								Black Cherry	10	Log	16	
								Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	Medium	5 - 10 feet	Sapling									
Black Cherry	Low	5 - 10 feet	Sapling									
Beech	Medium	5 - 10 feet	Sapling									
White Pine	High	< 5 feet	Sapling									
106	42120 - Planted Jack Pine	Poletimber Well	1.4	64	81-110	N/A	small volume, jack pine is beginning to decline, provides good thermal and protective cover.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	10	Pole/Log	9	
Jack Pine	90	Pole	8	64								
107	4134 - Aspen, Spruce/Fir	Sapling Well	7.5	16	Unspecified	N/A	Aspen regeneration with balsam fir scattered throughout providing good thermal cover. Lots of grouse in stand when inventory was done!					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	70	Sapling	2	16
Balsam Fir	25	Sapling/Pole	4									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
108	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	26.6	83	111-140	N/A	Mixed stand with red pine, red maple, black cherry and scattered fir overtopping deciduous understory of red maple, bc, fir and scattered shrubs. Aspen limited to small area along Thompsonville Rd. with some individual trees scattered throughout interior of stand. Stand includes a couple rows of white pine along border with stand 110 as well as concentrated pockets of jack pine along the north and SE edge. BA averages in the 140 range with high density pockets along with more open areas.																											
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Red Maple	Medium	Variable	Sapling																															
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Witch Hazel	Low	10 - 20 feet	Tall Shrub																															
109	3301 - Low Density Deciduous Trees	Nonstocked	19.2		Unspecified	No	WLD is interested in managing this stand in conjunction with similar Upland Brush stands in this area as part of a larger wild turkey habitat project. The juxtaposition of lowland and upland hardwoods, upland brush (shrubs), grass, pine stands (winter roosting), and other cover types makes this area (multiple compartment area) ideal for wild turkey management																											
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Sugar Maple	Low		Log																															
White Pine	Medium		Sapling																															
Red Maple	Low		Log																															
110	42110 - Planted Red Pine	Poletimber Well	8.2	61	141-170	N/A	treat with thinning, remove approximately 1/3 of overall volume focusing on defect and suppressed individuals. old-Hold small pockets of jack and white pine for thermal cover. Treat when red pine reaches silvicultural criteria, probably next entry period.																											
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Red Pine	85	Pole/Log	8	61																														
111	4130 - Aspen	Sapling Medium	15.6	8	Unspecified	N/A	Aspen regenerating well, balsam fir and white pine scattered throughout stand as well.																											
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Black Cherry	Low	Variable	Sapling																															
112	31021 - Cool Season Grass	Nonstocked	2.3		Unspecified	No	Photo # 1276. SKW, SJW, clover. Small opening to east (was part of larger opening last inventory): BC, WP, poverty, CSG, rubus, bracken, SKW, Plant to pasture? WLD is interested in managing this stand in conjunction with similar stands in this area as part of a larger wild turkey habitat project. The juxtaposition of lowland and upland hardwoods, upland brush (shrubs), grass, pine stands (winter roosting), and other cover types makes this area (multiple compartment area) ideal for wild turkey management																											
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113	122 - Road/Parking Lot	Nonstocked	3.6	0		No	Tomasek Rd ROW.																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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114 6220 - Alder/willow Nonstocked 10.3 No

Photo # 1273. rubus, jewelweed, goldenrod, choke cherry (?), bracken, hawthorn, black cherry, balsam fir, maple-leaved vib, may apple, trillium.

Sub-Canopy Species	Density	Avg. Height	Size
Sedges	Low		Non-Wood
Tag Alder	Low		Tall Shrub
Honeysuckle (spp.)	Low		Tall Shrub
Bigtooth Aspen	Low		Log
Willow spp.	High		
Willow spp.	High		
Willow spp.	High		
Tag Alder	Low		Tall Shrub
Bigtooth Aspen	Low		Log
Red Maple	Low		Log
Sedges	Low		Non-Wood
Willow spp.	High		
Willow spp.	High		
Willow spp.	High		
Sedges	Low		Non-Wood
Red Maple	Low		Log
Honeysuckle (spp.)	Low		Tall Shrub
Red Maple	Low		Log
Sedges	Low		Non-Wood
Willow spp.	High		
Willow spp.	High		
Willow spp.	High		
Honeysuckle (spp.)	Low		Tall Shrub
Red Maple	Low		Log
Willow spp.	High		
Willow spp.	High		
Willow spp.	High		
Tag Alder	Low		Tall Shrub
Bigtooth Aspen	Low		Log
Honeysuckle (spp.)	Low		Tall Shrub
Tag Alder	Low		Tall Shrub
Tag Alder	Low		Tall Shrub
Willow spp.	High		
Willow spp.	High		
Willow spp.	High		
Bigtooth Aspen	Low		Log
Red Maple	Low		Log
Red Maple	Low		Log
Willow spp.	High		
Willow spp.	High		



Stand **Level 4 Cover Type** **Size Density** **Acres** **Stand Age** **BA Range** **Managed Site** **General Comments**

Willow spp.	High		
Sedges	Low		Non-Wood
Bigtooth Aspen	Low		Log
Bigtooth Aspen	Low		Log
Tag Alder	Low		Tall Shrub
Sedges	Low		Non-Wood
Honeysuckle (spp.)	Low		Tall Shrub
Honeysuckle (spp.)	Low		Tall Shrub

115 42100 - Planted White Pine Poletimber Well 5.5 59 111-140 N/A

White pine stand thinned with additional trees removed that were considered defected. Decent quality, still some multiple topped individuals scattered throughout. Minimal regeneration in understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	100	Pole/Log	9	59	White Pine	Low	< 5 feet	Sapling
					Red Maple	Low	5 - 10 feet	Sapling

116 42201 - Natural White Pine, Mixed Deciduous Poletimber Well 29.0 34 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole/Sapling	5		Red Maple	Medium	Variable	Sapling
White Pine	70	Pole/Log/Sap	7	34	Black Cherry	Low	Variable	Sapling
Black Cherry	10	Pole/Sapling	5		Balsam Fir	Low	10 - 20 feet	Sapling
Red Maple	10	Pole/Sapling	6		Northern White Cedar	Low	10 - 20 feet	Sapling

117 6112 - Lowland Aspen Poletimber Well 9.5 51 N/A

stand is mostly lowland with the southern edge being upland, low quality aspen and black cherry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Pole/Log	8	51	Red Maple	Medium	Variable	Sapling
Quaking Aspen	30	Pole/Sapling	6		White Pine	Low	Variable	Sapling
Bigtooth Aspen	20	Pole	7		Black Cherry	Low	Variable	Sapling

118 4130 - Aspen Poletimber Well 3.8 51 N/A

small pocket of aspen, variable in term of size and density. white pine and balsam fir present throughout. consider treating by final harvest leaving pockets of conifer component.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	94	Pole	6	51	Red Maple	Low	Variable	Sapling
					Balsam Fir	Medium	Variable	Pole
					White Pine	Low	Variable	Sapling
					Black Cherry	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
119	3303 - Mixed Low Density Trees	Nonstocked	7.0		Unspecified	No	Split Stand 14 1/2 H2O P#1287,87,85,92-94 BB Moss 51/2 Dry P# 1288 Fairly wide opento the S. Wgreen old stumps Hawkweed 1ylo Atarflower Moss rubus,AO, S. sorrell, BB WLD is interested in managing this stand in conjunction with similar Upland Brush stands in this area as part of a larger wild turkey habitat project. The juxtaposition of lowland and upland hardwoods, upland brush (shrubs), grass, pine stands (winter roosting), and other cover types makes this area (multiple compartment area) ideal for wild turkey management					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Honeysuckle (spp.)	Trace		Tall Shrub	
								Bigtooth Aspen	Low		Sapling	
								Quaking Aspen	Low		Pole	
								Black Cherry	High		Pole	
								White Pine	Low		Pole	
120	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.9	34	51-80	N/A	mixed stand with white pine beginning to fill in more of canopy. mediocre quality hardwood.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	35	Sapling/Pole	3	34
								White Pine	25	Pole/Sapling	6	
								Black Cherry	15	Pole/Log	8	
Ironwood	20	Sapling/Pole	4									
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Medium	Variable	Sapling									
Black Cherry	Low	Variable	Sapling									
Ironwood	Medium	Variable	Sapling									
Witch Hazel	Medium	10 - 20 feet	Tall Shrub									
121	4113 - R.Maple, Conifer	Poletimber Well	9.1	62	51-80	N/A	mixed stand of red maple, white pine, trace aspen and edge component of hemlock and cedar					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	60	Pole/Log	8	62
								White Pine	20	Log/Pole	13	
								Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	Medium	Variable	Sapling									
Balsam Fir	Low	Variable	Pole									
White Pine	Low	Variable	Sapling									
Black Cherry	Low	Variable	Sapling									
122	3105 - Mixed Upland Herbaceous	Nonstocked	1.9		Unspecified	No	Photo # 1275. Honeysuckle. WLD is interested in managing this stand in conjunction with similar stands in this area as part of a larger wild turkey habitat project. The juxtaposition of lowland and upland hardwoods, upland brush (shrubs), grass, pine stands (winter roosting), and other cover types makes this area (multiple compartment area) ideal for wild turkey management					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Autumn Olive	Medium		Tall Shrub	
123	3104 - Degraded	Nonstocked	0.9		Unspecified	No	WLD is interested in managing this stand in conjunction with similar stands in this area as part of a larger wild turkey habitat project. The juxtaposition of lowland and upland hardwoods, upland brush (shrubs), grass, pine stands (winter roosting), and other cover types makes this area (multiple compartment area) ideal for wild turkey management					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
124	6220 - Alder/willow	Nonstocked	5.1			No	Riparian area along Third Creek.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Full		Tall Shrub	
								Red Maple	Trace		Pole	
								Balsam Fir	Trace		Pole	
125	110 - Low Intensity Urban	Nonstocked	1.2			No						
126	4319 - Mixed Upland Forest	Poletimber Poor	7.2	27	Immature	N/A	mixed stand, more opn in southern portion. moving from sapling to pole, white pine most dominant, age taken from average size individual. Photo # 1274. witch hazel, SJW, SKW, hawkweed, trout lily, sedges, lycopodia, honeysuckle,					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	40	Pole/Sapling	6	27
								Black Cherry	20	Pole/Sapling	7	
								Red Pine	10	Sapling/Pole	4	
								Red Maple	30	Pole/Sapling	5	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Cherry	Low		Log	
								Black Cherry	High		Pole	
								Red Pine	Trace		Sapling	
Red Maple	Low		Sapling									
White Oak	Low		Pole									
127	3303 - Mixed Low Density Trees	Nonstocked	15.6		Unspecified	No	Photo # 1277. Paper birch, honeysuckle, autumn olive, sedge, rubus, SKW, golden rod, moss, trout lily, hawkweed, lyco, dandelion, pussytoes. WLD is interested in managing this stand in conjunction with similar Upland Brush stands in this area as part of a larger wild turkey habitat project. The juxtaposition of lowland and upland hardwoods, upland brush (shrubs), grass, pine stands (winter roosting), and other cover types makes this area (multiple compartment area) ideal for wild turkey management					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Quaking Aspen	Trace		Sapling	
								Black Cherry	High		Pole	
								Red Pine	Low		Sapling	
								Honeysuckle (spp.)	Low		Tall Shrub	
								Witch Hazel	Trace		Tall Shrub	
Red Maple	Trace		Pole									
129	4130 - Aspen	Poletimber Well	12.7	51	Unspecified	N/A	Small aspen stand, growing fairly well. Some lowland influence within stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	90	Pole	8	51
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low	Variable	Sapling	
White Pine	Medium	10 - 20 feet	Pole									
Black Cherry	Low	Variable	Sapling									
130	6220 - Alder/willow	Nonstocked	2.1			No	P#1278					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Mountain Alder	High		Tall Shrub	
								Willow spp.	Low			
								Willow spp.	Low			
								Willow spp.	Low			
Red Maple	Medium		Log									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
131	42110 - Planted Red Pine	Sawtimber Well	33.0	59	141-170	N/A	stand is ready to be thinned again, ba hovers in the 150-180 range, overall quality is very good. hardwood species scattered throughout stand, minimal understory. consider treating by thinning, removing defected and suppressed individuals, including stand 15 of adjacent compartment to the east.																													
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132	42120 - Planted Jack Pine	Poletimber Well	11.1	58	51-80	N/A	consider final harvesting stand and allowing to convert to mixed hardwood species with pine component.																													
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134	4136 - Aspen, Mixed Conifer	Sapling Well	13.3	8	Immature	N/A	aspen, red maple and black cherry regen along with some red pine, white pine and balsam fir. lager dbh canopy species include white pine and cherry retained uring last harvest. trace oak regen.																													
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135	4139 - Aspen, Mixed Deciduous	Sapling Medium	15.4	8	Immature	N/A	overstory canopy of white pine, black cherry and balsam fir. remainder of canopy includes these species as saplings along with more dense red maple and aspen																													
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136	4130 - Aspen	Sapling Well	13.4	7	Immature	N/A	Aspen and red maple regen with scattered white pine, balsam fir and black cherry. Heavy browse on red maple in places.																													
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138	3105 - Mixed Upland Herbaceous	Nonstocked	0.0			No																														
142	122 - Road/Parking Lot	Nonstocked	2.9	0	Unspecified	No	Healy Lake rd and ROW.																													