



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61050

Entry Year 2021

Acreage: 2,755

County Grand Traverse

Management Area: Boardman Plains

Revision Date: 2019-06-13

Stand Examiner: Tim Webb

Legal Description:

T26N R10W, Sections 16 through 21 & 28 through 33

Identified Planning Goals:

This compartment is situated in the Boardman Plains Management Area (MA). Pertinent goals from the MA plan include vegetation management to provide forest products; maintaining or enhancing wildlife habitat; protecting areas of unique character including the Boardman River (a designated natural river); protecting threatened, endangered and special concern species; and providing for forest-based recreational uses. Timber management objectives for this 10-year planning period include continued improvement of the age-class structure of aspen; increasing regeneration of oak; working toward balancing the red pine age-class structure; continuing emphasis on managing the northern hardwood resource for stand quality, age, and species diversity; wildlife values; and continued production of wood products. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife related recreation opportunities. Expected trends within this 10-year planning period are: increased recreational pressure; increased oil and gas development; and increased wildland/urban interface; and invasive plant control.

Several natural stands of white pine with components of oak, red maple, and red pine are indicative of the successional potential of stands in this outwash plain. Such natural pine stands, once a significant component of this landscape, are now uncommon and should be perpetuated. Several pine stands may benefit from thinning this entry period, particularly red pine plantations. Northern hardwoods on moraine in the south part of the compartment are of generally good quality. Some portions are ready for another thinning this entry period.

Soil and topography:

Land type associations include a generally flat outwash plain covering most of the compartment; outwash channel along the Boardman River in the northern part of the compartment; and moraine ridge landscapes at the south end and extreme north end. Much of section 30 is covered by shrub wetlands.

Soil types include Kalkaska, Crowell, and Rubicon sands and loamy sands over most of the uplands. Lowlands and river valley areas include Lupton muck, Roscommon mucky loamy sand, and Tonkey mucky sandy loam soil types.

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

This compartment and neighboring compartment 49 to the west form a large block of more or less contiguous state land, surrounded by rural residential parcels of varying size and undeveloped private woodlands. The village of Mayfield and Mayfield Pond Park abut the east side of the compartment. The village of Kingsley is a couple miles to the southeast. A private golf course and Kingsley School Forest property abut the south end of the compartment. River and Garfield roads, two busy commuter routes, plus an active railroad, are along the north and east sides of the compartment.

Unique Natural Features:

A sizable wetland complex along Jaxon Creek lies within this compartment. The compartment also includes bottomlands along the Boardman River and Swaintson Creek. Large areas of lowland brush, flood-killed timber, and lowland conifers along these flowages add significantly to the habitat diversity.

Archeological, Historical, and Cultural Features:

There are no known archaeological features within the compartment. Old apple trees and lilacs here and there suggest locations of abandoned homesteads from the early to mid 1900s. A drainage running southeast to northwest through the south ½ of section 19 appears to be at least partially man-made, and may have been created or enhanced to drain wetlands in section 30 in the past for agriculture.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment is within the Boardman River watershed, and contains portions of Swainston Creek, Jaxon Creek, and their tributaries. The Boardman River and its tributaries are part of the Natural Rivers programs, so the stream buffers indicated in the Natural Rivers Plan should be followed.

Wildlife Habitat Considerations:

This compartment falls into 4 different landtype associations, but the bulk is within a broad outwash plain. Some state land lies along moraine ridges on the north and south ends of the compartment. The Boardman River Valley transects the compartment but has little State land. Care should be taken to maintain a diversity of age classes, species mixes, snags and down logs in upland forests, including some young aspen-dominated stands as well as mature deciduous and bottomland mixed forests types. Most of the aspen forest is currently young to medium aged. However, opportunities exist, and should continue to be acted on in order to diversify the age classes. Specifications for down logs should be included in all aspen harvests to create drumming logs for ruffed grouse and habitat for small mammals and herps in regenerating stands. Include a hardwood component in pine stands as much as possible for within-stand diversity. Allow some stands to become very old and advance in successional stage, especially along stream valleys. Northern hardwood stands on moraines should be managed for diversity of tree species and important within-stand structure such as cavity trees and coarse woody debris. Retain an oak as a component wherever possible. Future management of pine stands should consider incorporating small (2-5 acre) islands that are left relatively un-thinned within mature stands to provide winter roosting cover for turkeys. Maintain some old fields and abandoned well sites as openings with fruiting shrubs, bush hogging, hand felling, seeding grasses, and burning or mowing of established grassy fields. Some species associated with aspen-oak-pine forests, rivers, streams, and adjacent mixed swamp forest, are ruffed grouse, black-throated green warbler, wood turtles, brown snake, river otter, white-tailed deer, and least flycatcher.

Compartment 50 falls within the Boardman Plains Management Area (MA) of the Regional State Forest Management Plan. Featured wildlife species for this MA include bear, pileated woodpecker, ruffed grouse, turkey, and deer. Based on the natural disturbance history of the land type associations within the Boardman 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

Numerous sand/gravel pits are located to the west and northwest of the compartment associated with regional moraine deposits. The compartment sits on the outwash plain between two moraines. There appears to be good sand & gravel potential within the compartment, but the water table is generally shallower compared to on the moraines. The compartment is located within the prolific Guelph (Niagaran) reef trend. Most of the compartment is leased and held by production. Additional reefs could be found beneath the compartment, and there may be potential for Antrim Shale gas development in this area. Oil & gas potential is considered high. There is no known metallic mineral potential in this part of the state. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Access for forest management and recreation are generally good throughout the compartment. One small parcel east of the railroad in section 33 is accessible by vehicles only by crossing private land. An access road in the west part of section 30 has been temporarily closed; it will need to be re-opened for timber sale access, but should be permanently re-opened only if properly stabilized in low areas. A fence blocking an access road to an abandoned oil well pad in sections 18 & 19 is in disrepair, and there is an erosion issue near the river. This access should be stabilized, then blocked to vehicle access at the top of the slope using stumps and earthen berms, in coordination with the Grand Traverse County Road Commission and DTE Energy and with input from the Fisheries Division.

Survey Needs:

For the most part, the compartment's property corners are well monumented. However, a few individual corners may need to be surveyed and set to facilitate management or confirm possible trespass. There may be a driveway in trespass in the SESW of sec. 20.

Recreational Facilities and Opportunities:

This compartment is relatively close to a large population center and therefore receives much recreational use. Both a designated snowmobile trail and the Shore-to-Shore trail traverse the compartment. The Boardman River is quite popular for fishing and float trips. Swainston and Jaxon Creeks offer additional trout fishing opportunities. Hunting for deer, turkey, grouse, and woodcock are important uses as well.

Fire Protection:

DNR Fire Protection is from the Traverse City Field Office, and VFD protection is from Battalion# 2 or Battalion #5 – Grand Traverse County. Travel time is adequate from the Traverse City Field Office. Access can be an issue in some sections of this compartment. Urban interface isn't much of a concern. Some pine plantations, and mixed pine in hardwood stands can contribute to larger fires on higher fire danger days.

Additional Compartment Information:

Ownership is somewhat fragmented, especially along the Boardman River valley. The Grand Traverse Regional Land Conservancy previously explored potential for conservation land acquisition or exchange, but found few if any willing sellers among private landowners in this area.

The following reports from the Inventory are attached:

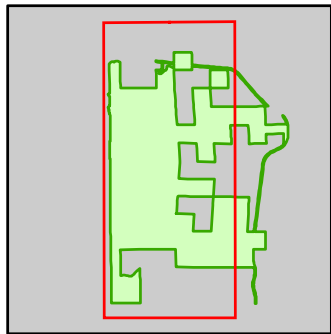
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

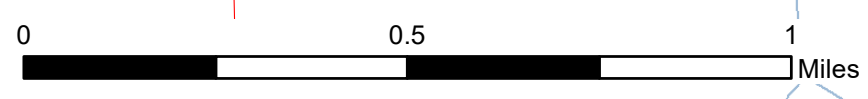
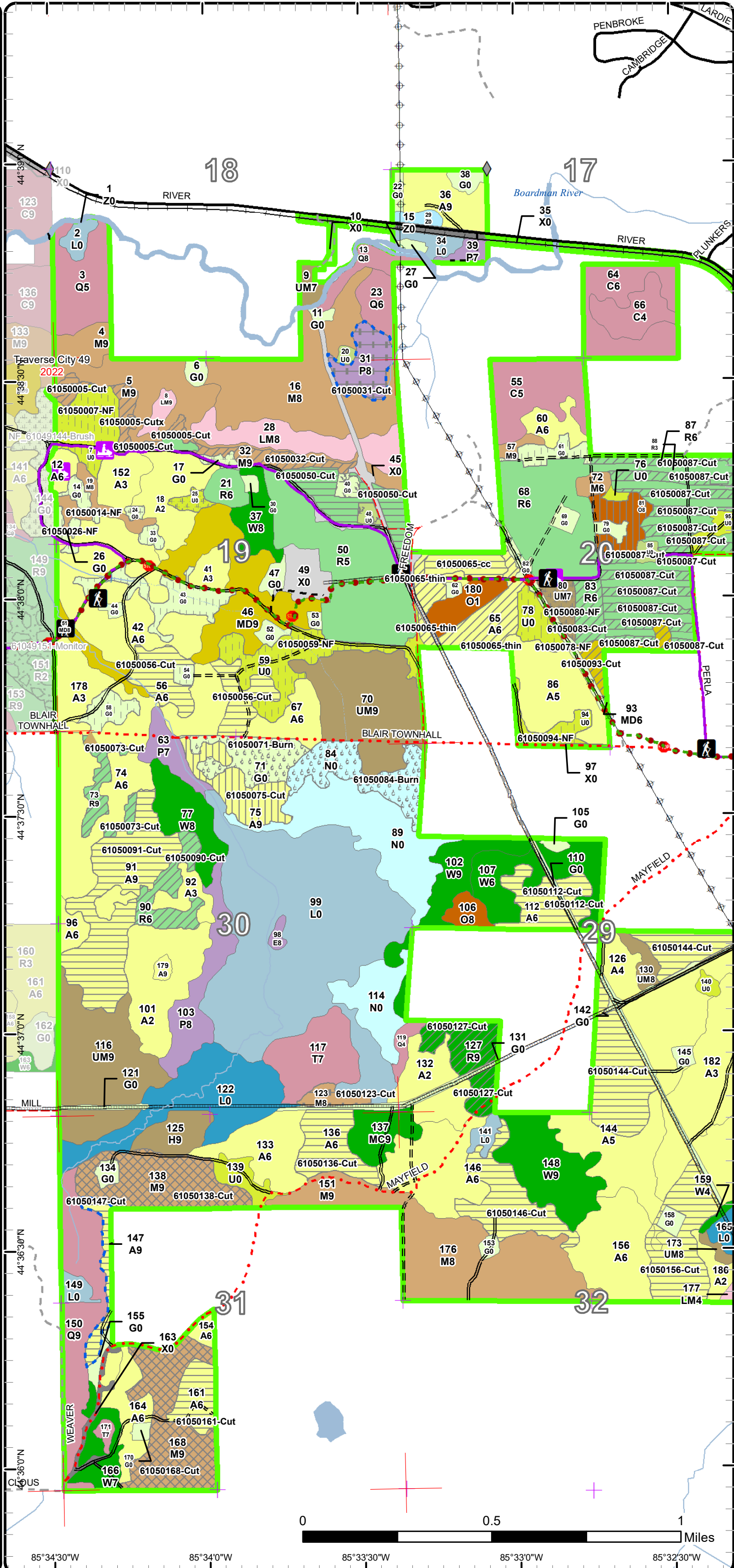
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 50
 T26N-R10W Sec. 16-21,28-33
 County: Grand Traverse
 Unit: Traverse City
 Mgmt Area: Boardman Plains
 YOE: 2021
 Acres: 2,755 GIS Calculated
 Examiner: Tim Webb
 Map Revised: 11/7/2019
 Map Phase: Post Review



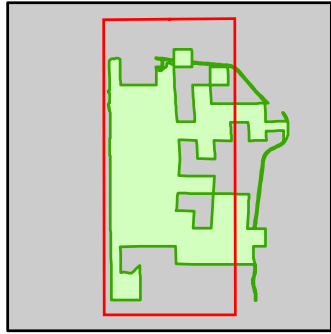
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- Remonumented Section Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
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- Private - Dirt / Gravel Road
- Active Railroads
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- Treatments with Site Conditions
- Pesticide
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
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- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
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- 622 - Lowland Shrub
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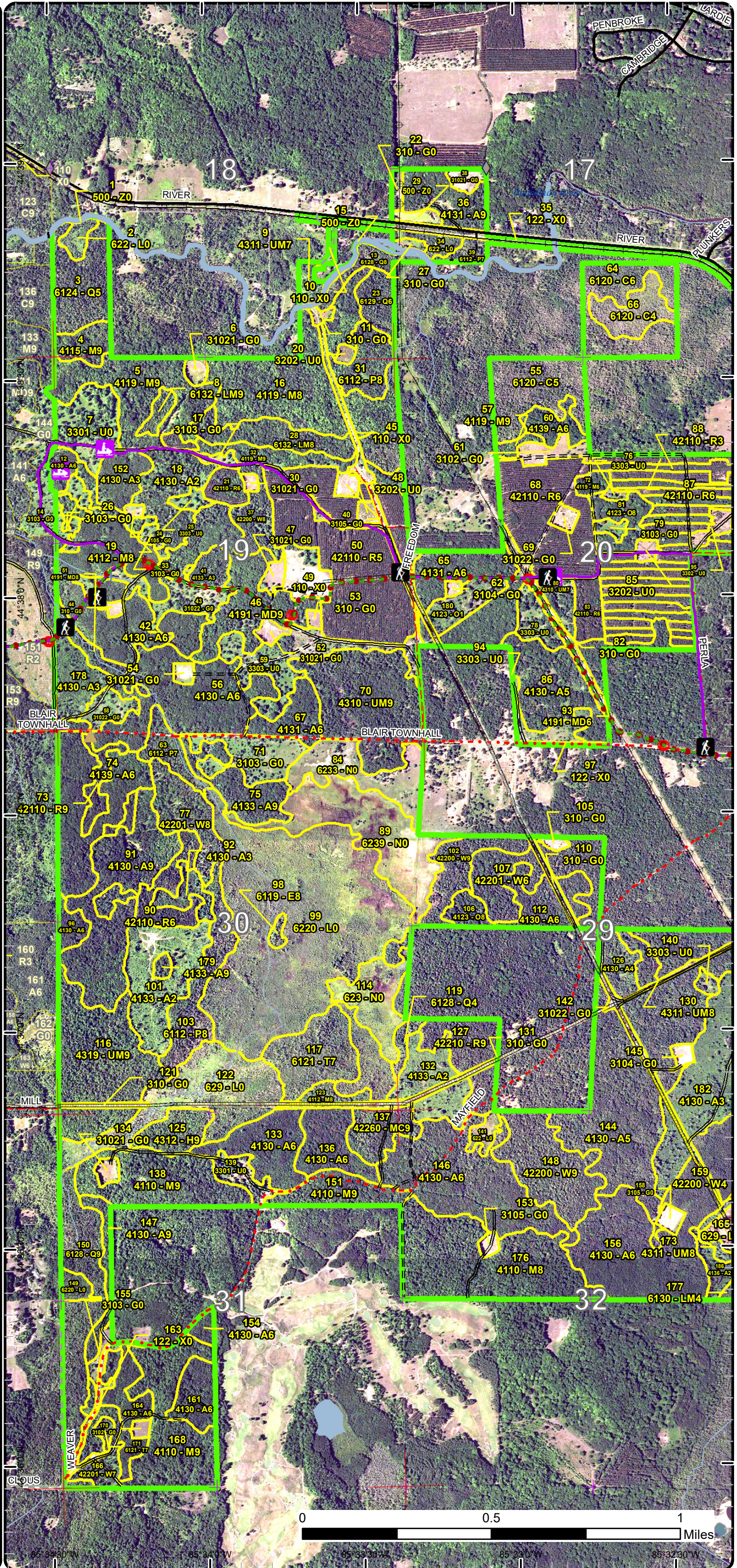
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Stand Boundary Map

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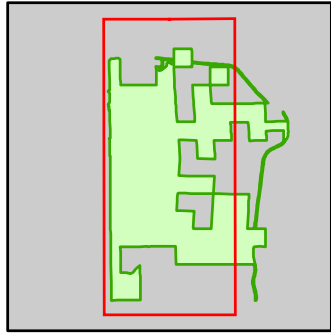


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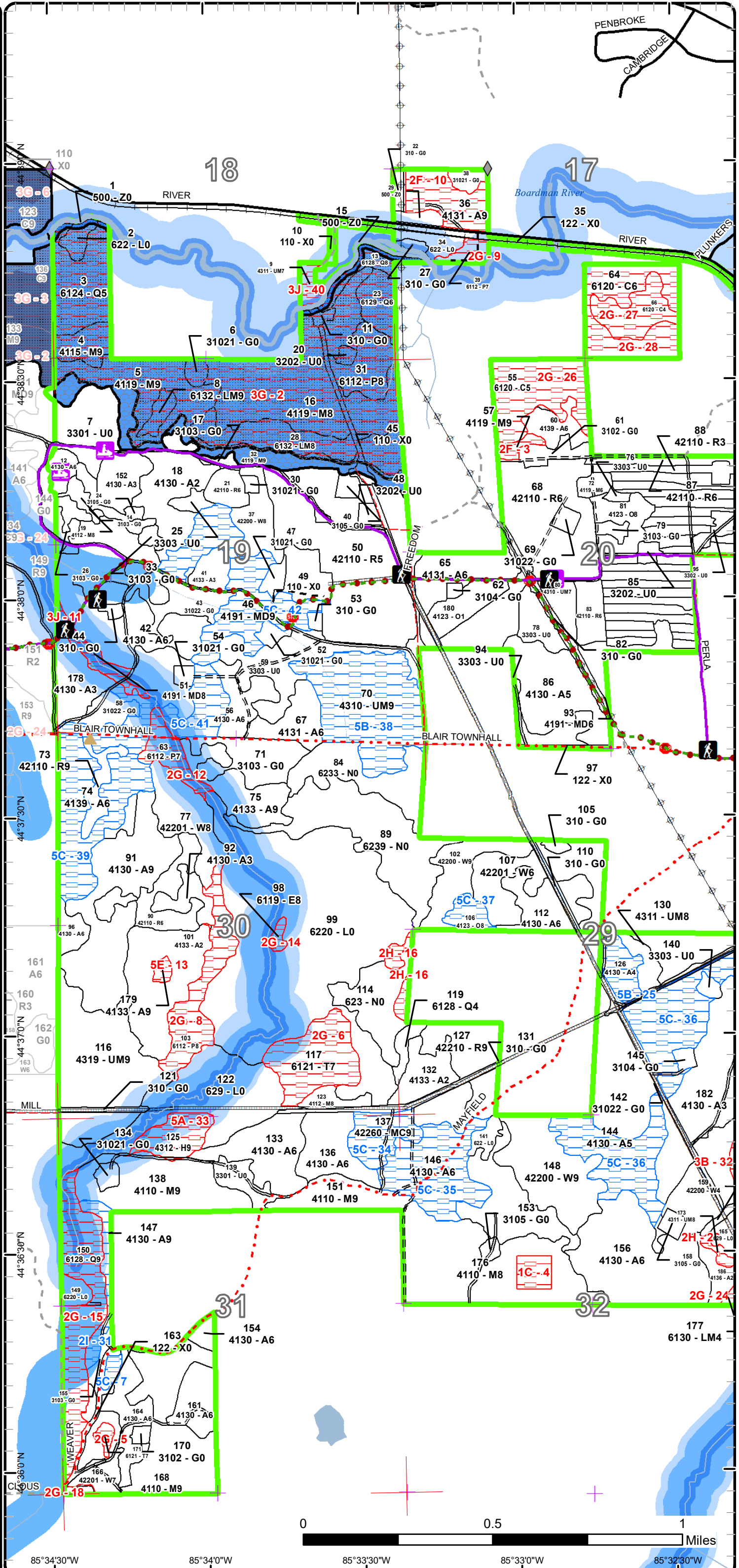


Special Conservation Areas & Site Conditions Map

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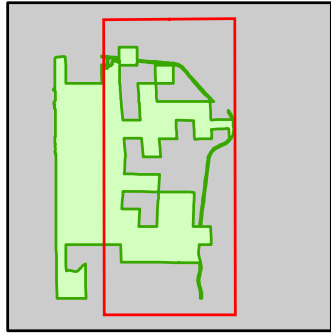
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- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- SCA Removal
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Spring or Seep
- Riparian Area



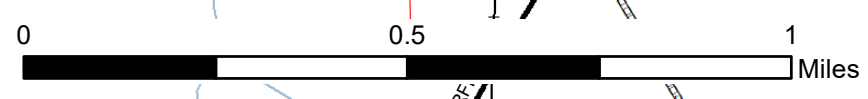
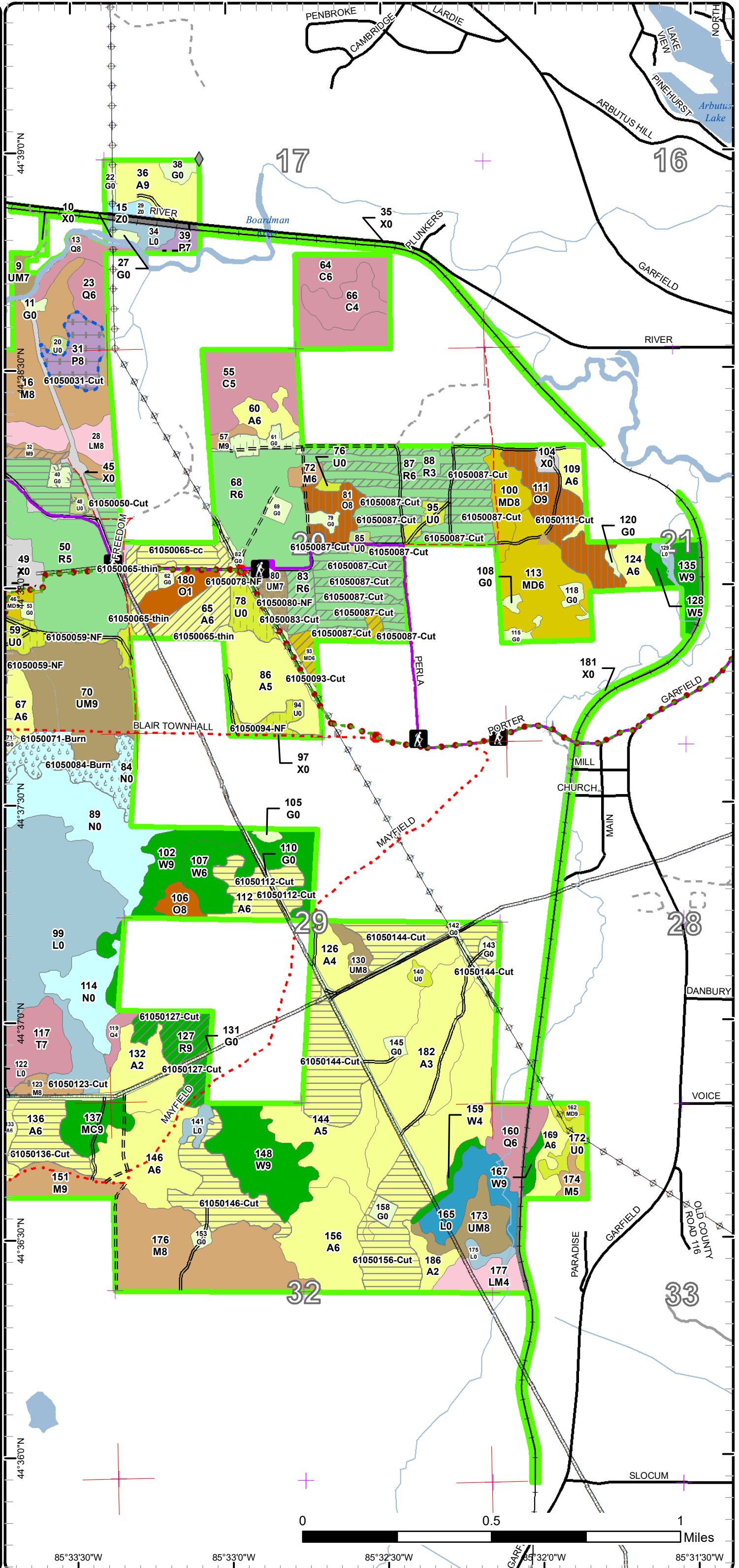
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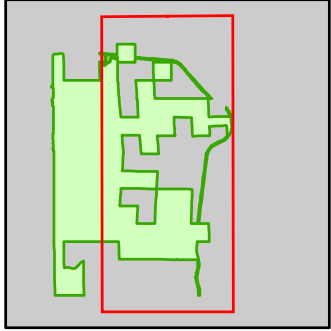
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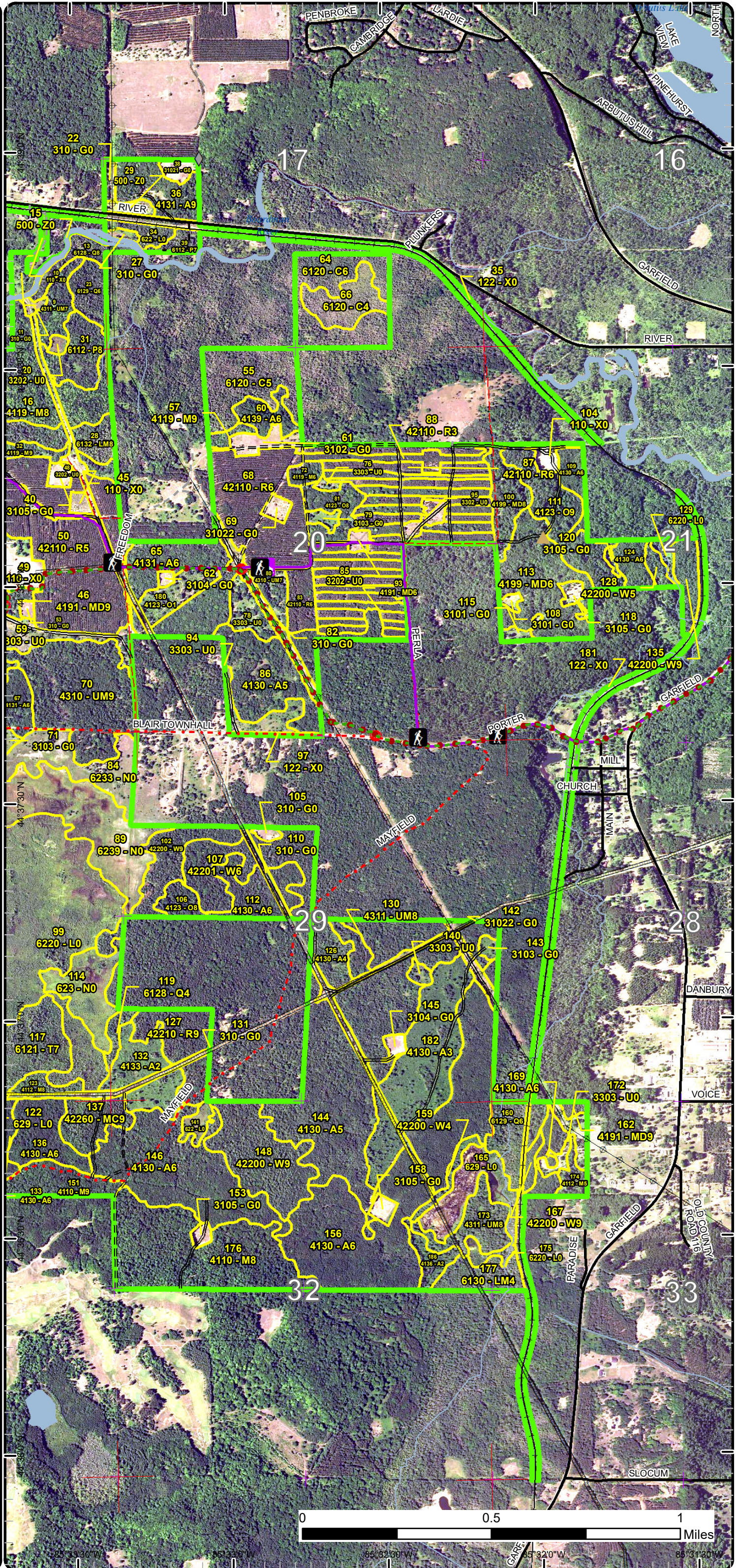
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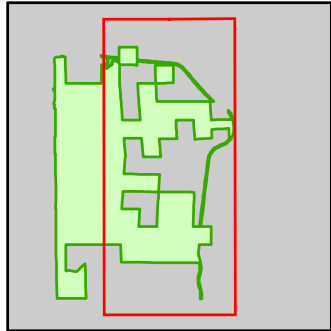


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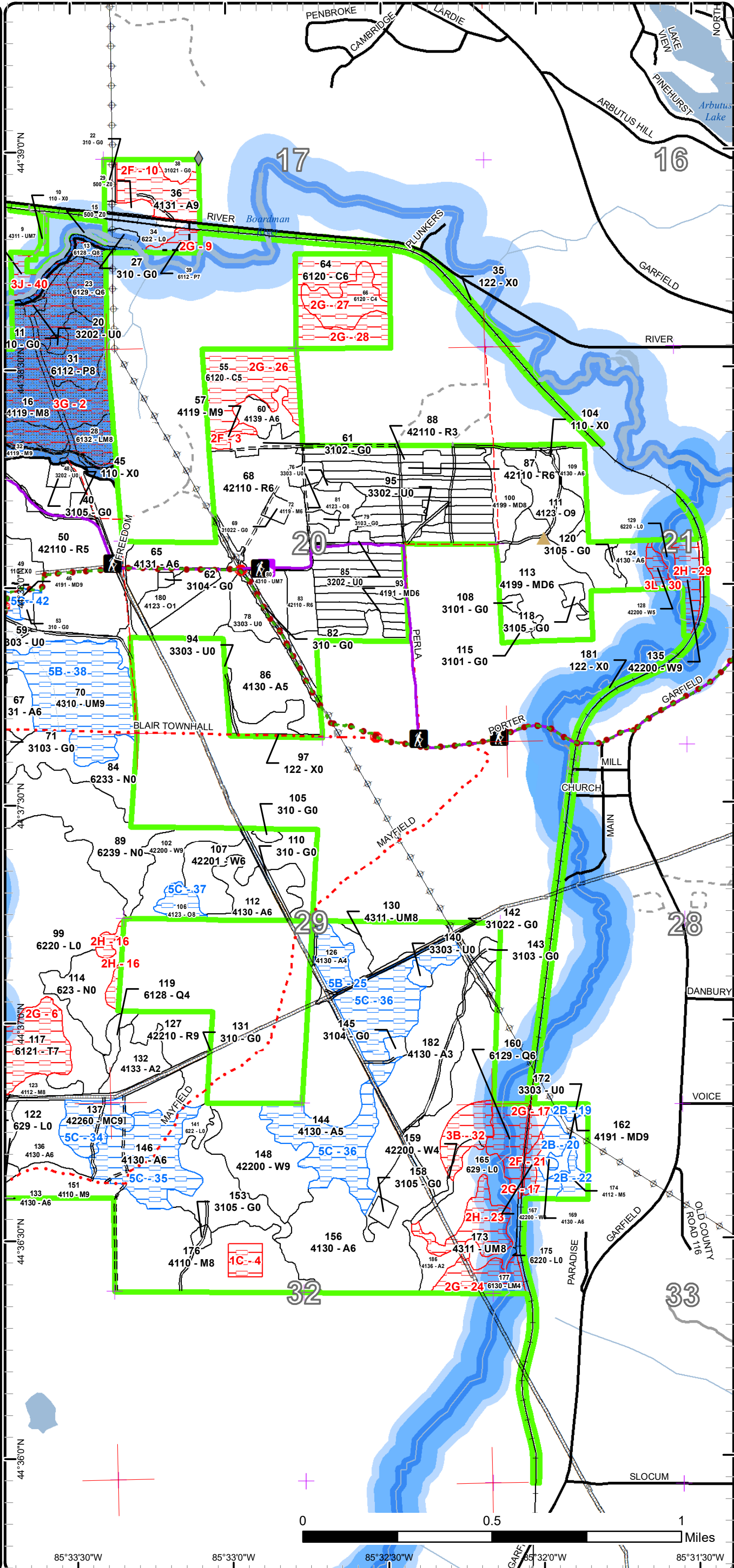


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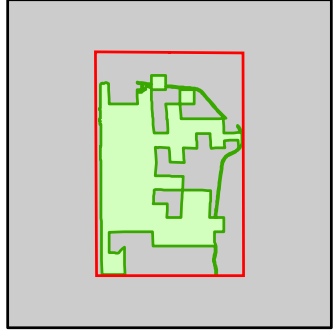


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- 3G: Other Influence zones - See comments
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- 3L: Other wildlife concerns
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- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Riparian Area

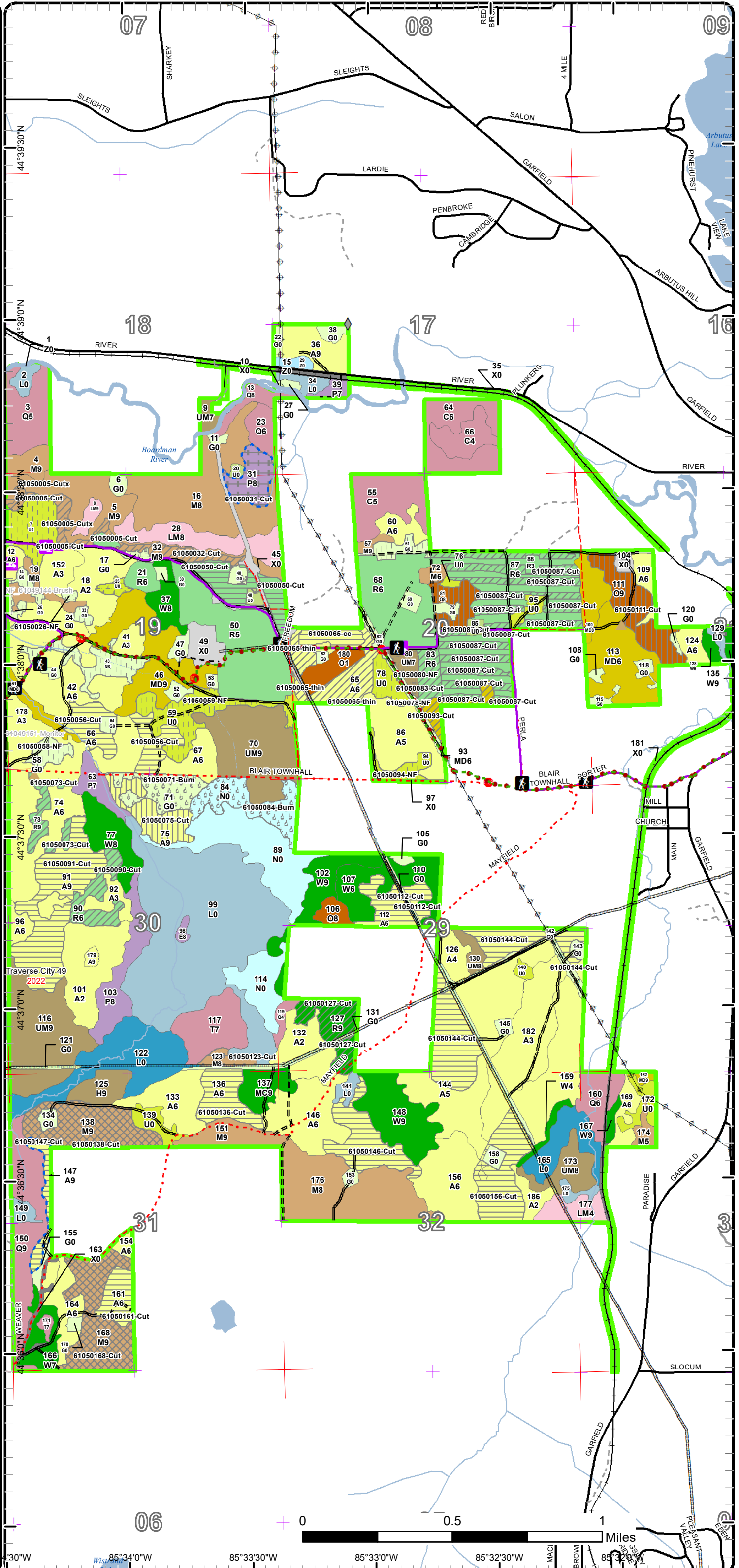


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Report 1 – Total Acres by Cover Type and Age Class



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	116	48	87	136	237	193	10	2	0	0	0	0	0	0	0	0	16	843
Cedar	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	26	0	0	66
Hemlock	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	11
Herbaceous Openland	136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136
Low-Density Trees	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	9	26	14	0	0	0	0	0	0	0	0	0	49
Lowland Conifers	0	0	0	0	0	0	7	23	0	0	0	14	37	0	0	0	0	13	93
Lowland Deciduous	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	24	4	0	0	0	0	0	11	39
Lowland Shrub	238	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	238
Marsh	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
Mixed Upland Deciduous	0	0	0	0	0	0	51	36	0	0	7	0	0	0	0	0	0	8	102
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	13
Northern Hardwood	0	0	0	0	3	0	0	0	5	5	183	91	0	0	0	0	0	0	285
Oak	0	10	0	0	0	0	0	0	0	16	25	0	0	0	0	0	0	0	51
Red Pine	0	0	0	42	0	0	130	77	0	0	19	0	0	0	0	0	0	0	267
Tamarack	0	0	0	0	0	0	0	0	0	2	25	0	0	0	0	0	0	0	27
Upland Mixed Forest	0	0	0	0	0	9	0	20	0	0	48	0	0	0	0	0	0	51	127
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Urban	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	0	0	3	43	0	0	39	0	0	0	0	0	0	56	141
Total	638	126	48	129	139	246	393	237	21	36	381	149	37	0	0	26	0	155	2754



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 50
Total Compartment Acres: 2,755

Commercial Harvest - 509
Harvests with Site Condition - 8
Next Step Harvest - 0
Habitat Cut - 14

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	227	0	0	0	17	21	0	0	0	266
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	14	0	0	14
Mixed Upland Deciduous	0	0	0	0	0	8	0	0	0	8
Northern Hardwood	2	71	0	0	0	8	5	0	0	86
Oak	0	0	0	0	35	0	0	0	0	35
Red Pine	18	0	0	0	0	104	0	0	0	122
Total	248	71	0	0	53	141	18	0	0	531

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	531	0	0	0	39	4	0	0	109	683
Next Step	0	22	22	39	0	41	398	0	0	522
Total	531	22	22	39	39	45	398	0	109	1205



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:

5	61050005-Cut	8.3	4119 - Mixed Northern Hardwoods	Sawtimber Well	103	111-140	Harvest	Crown Thinning	4119 - Mixed Northern Hardwoods	Even-Aged	No
<p><u>Prescription</u> Thin hardwoods above the bluff to 90 BA residual. Use appropriate specs to protect the recreational trail in/adjacent to the stand and to minimize disruption to recreational use.</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> Two aspen patches will be clearcut out of this stand; listed as a separate treatment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
5	61050005-Cutx	2.1	4119 - Mixed Northern Hardwoods	Sawtimber Well	103	111-140	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" dbh limit. Retain a few small mixed-species clumps. Create some CWD.</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> aspen, mixed hardwoods</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>											
7	61050007-NF	18.9	3301 - Low Density Deciduous Trees	Nonstocked			NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> WLD agrees with FRD that this will make a nice semi-wooded stand, but will need maintenance at some point soon to set back succession.</p> <p><u>Regen:</u></p> <p><u>Other</u> Treat along with stands 14, 26, and 61019144.</p> <p><u>Comment:</u> At north end, could 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.</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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14	61050014-NF	3.1	3103 - Rubus-Fern	Nonstocked		NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
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Prescription Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

17	61050017-NF	2.2	3103 - Rubus-Fern	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 Could work with some of the overbrowsed oak saplings.
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

24	61050024-NF	1.0	3105 - Mixed Upland Herbaceous	Nonstocked		NonForestMgt	Fruit Tree/Shrub Planting	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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25	61050025-NF	2.7	3303 - Mixed Low Density Trees	Nonstocked		NonForestMgt	Fruit Tree/Shrub Planting	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.

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

26	61050026-NF	2.7	3103 - Rubus-Fern	Nonstocked		NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
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Prescription Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment, if necessary.

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other Treat along with stands 7, 14, and 61049144.
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

31	61050031-Cut	13.6	6112 - Lowland Aspen	Sawtimber Medium	74 Unspec ified	Harvest	Overstory Removal	6112 - Lowland Aspen	Even-Aged	Yes
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Prescription Habitat cut: Cut and leave mature aspen in winter to create a browse resource.

Specs:
Next Step
Treatments:

Acceptable aspen, fir
Regen:

Other
Comment:

Site Condition Other Influence Zones

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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32	61050032-Cut	8.3	4119 - Mixed Northern Hardwoods	Sawtimber Well	93	81-110	Harvest	Crown Thinning	4319 - Mixed Upland Forest	Uneven-Aged	No
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Prescription Thin to remove beech, some aspen, multi-stemmed red maple, and other low quality trees; residual BA 70-90. Use appropriate
Specs: specs/seasonal restrictions to prevent oak wilt infection in residual oak. Use appropriate specs to protect the recreational trail in/adjacent to the stand and to minimize disruption to recreational use.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

33	61050033-NF	1.9	3103 - Rubus-Fern	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
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

40	61050040-Spray	4.1	3105 - Mixed Upland Herbaceous	Nonstocked			Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
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Prescription apply herbicide to remove autumn olive, other vegetation prior to planting RP
Specs:

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

Acceptable red pine
Regen:

Other Prep/plant in conjunction with surrounding stand 50 after that stand is harvested.
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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43	61050043-NF	14.9	31022 - Warm Season Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	31022 - Warm Season Grass	No
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Prescription Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic, and/or mow if burning is not feasible. Remove invasive species mechanically or with herbicide treatment.

Next Step
Treatments:

Acceptable
Regen:

Other Goal here is to mimic a barrens type community. Stands to include are 43, 59, 58, and 71.
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

50	61050050-Cut	18.3	42110 - Planted Red Pine	Poletimber Medium	58	111-140	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut. Retain some small patches along the snowmobile trail for aesthetics, and also some strips along the east edge to thwart illegal ORV activity. Use specs to limit retained slash and stump heights. Replant to red pine. Use appropriate specs to protect the recreational trail adjacent to the stand and to minimize disruption to recreational use.

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

Acceptable planted red pine
Regen:

Other Include the two abandoned well pads in the regeneration plan.
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

54	61050054-NF	1.8	31021 - Cool Season Grass	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 (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
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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56	61050056-Cut	23.1	4130 - Aspen	Poletimber Well	52		Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription Clearcut to a 2" dbh limit, retaining scattered mixed-species islands which include some veteran oaks and pines, plus some scattered oaks.
Specs: Cut and leave 1-2 10"+ dbh trees per acre for CWD/drumming logs. Use appropriate specs/seasonal restrictions to prevent oak wilt infection in residual oak.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: aspen, oak, white pine, red maple

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

58	61050058-NF	6.3	31022 - Warm Season Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	31022 - Warm Season Grass		No
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Prescription Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic, and/or mow if burning is not feasible. Remove invasive species mechanically or with herbicide treatment.

Next Step
Treatments:

Acceptable Regen:

Other Comment: Goal here is to mimic a barrens type community. Stands to include are 43, 59, 58, and 71.

Site Condition

Proposed Start Date: 10/1 /2020

59	61050059-NF	26.3	3303 - Mixed Low Density Trees	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
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Prescription Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic, and/or mow if burning is not feasible. Remove invasive species mechanically or with herbicide treatment.

Next Step
Treatments:

Acceptable Regen:

Other Comment: Goal here is to mimic a barrens type community. Stands to include are 43, 59, 58, and 71.

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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61	61050061-NF	6.1	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	31022 - Warm Season Grass		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 Should burn but this stand is isolated, small, and near some private. Location would be good for a food plot next to lowlands, but the stand
Comment: already has some nice native species.

Site Condition

Proposed Start Date: 10/1 /2020

65	61050065-cc	8.6	4131 - Aspen, Oak	Poletimber Well	54	111-140	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
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Prescription Clearcut for aspen regeneration, retaining some scattered oak and pine, and a retention island along the trail. Use appropriate
Specs: specs/seasonal restrictions to prevent oak wilt infection in residual oak. Cut and leave 1-2 10"+ dbh trees per acre for CWD/drumming logs. Use appropriate specs to protect the recreational trail in/adjacent to the stand and to minimize disruption to recreational use.

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

Acceptable aspen, oak, white pine, red maple
Regen:

Other Shore-to-Shore and snowmobile trails run along the south edge.
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

65	61050065-thin	20.9	4131 - Aspen, Oak	Poletimber Well	54	111-140	Harvest	Low Thinning	4122 - Oak, Pine	Uneven-Aged	No
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Prescription Thin the stand to favor better-quality oak and pine, removing most of the aspen. Use appropriate specs/seasonal restrictions to prevent oak
Specs: wilt infection in residual oak. Use appropriate specs to protect the recreational trail in/adjacent to the stand and to minimize disruption to recreational use.

Next Step
Treatments:

Acceptable oak, white pine, aspen, red maple
Regen:

Other Shore to Shore/snowmobile trail runs through the stand.
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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71	61050071-Burn	16.4	3103 - Rubus-Fern	Nonstocked			Burn	Opening	31022 - Warm Season Grass	No
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Prescription Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic, and/or mow if burning is not feasible. Remove invasive species mechanically or with herbicide treatment.

Next Step Seeding, Other - Specify

Treatments:

Acceptable

Regen:

Other Goal here is to mimic a barrens type community. Stands to include are 43, 59, 58, and 71.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

73	61050073-Cut	9.1	42110 - Planted Red Pine	Sawtimber Well	62 171-200	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
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Prescription Thin to 120 BA.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

75	61050075-Cut	17.4	4133 - Aspen, Mixed Pine	Sawtimber Well	49 81-110	Harvest	Shelterwood with Retention	42201 - Natural White Pine, Mixed Deciduous	Uneven-Aged	No
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Prescription Shelterwood cut, leaving about 40-50 BA of oak and pine, allowing regeneration to mixed aspen, pine, and oak. Retain advanced white pine regeneration as possible. Use appropriate specs/seasonal restrictions to prevent oak wilt infection in residual oak.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable white pine, aspen, oak

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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78	61050078-NF	7.8	3303 - Mixed Low Density Trees	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
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

80	61050080-NF	6.1	4310 - Pine, Oak Mix	Sawtimber Poor	65	81-110	NonForestMgt	Fruit Tree/Shrub Planting	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription plant fruiting shrubs in canopy gaps
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

81	61050081-Cut	10.4	4123 - Red Oak	Sawtimber Medium	83	81-110	Harvest	Shelterwood with Retention	4199 - Other Mixed Upland Deciduous	Uneven-Aged	No
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Prescription Mark to 50 BA to leave of good quality oak, maple, and pine for seed source and partial shading; cut the rest. Use appropriate
Specs: specs/seasonal restrictions to prevent oak wilt infection in residual oak.

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

Acceptable oak, red maple, white pine, cherry
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
83 61050083-Cut	7.9	42110 - Planted Red Pine	Poletimber Well	55	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> 3rd-row thin. Use appropriate specs to protect the recreational trail in/adjacent to the stand and to minimize disruption to recreational use.</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>										
84 61050084-Burn	22.4	6233 - Wet Meadow	Nonstocked			Burn	Lowland	6233 - Wet Meadow		No
<p><u>Prescription</u> In a dry or low water year, this stand could be burned to maintain encourage wet meadow species. May want to augment with additional native wet meadow species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Seeding, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Manage along with other barrens objective stands.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
87 61050087-Cut	54.6	42110 - Planted Red Pine	Poletimber Well	65	171-200	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to 120 BA. Use appropriate specs to protect the recreational trail in/adjacent to the stand and to minimize disruption to recreational use.</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>										
90 61050090-Cut	13.0	42110 - Planted Red Pine	Poletimber Well	62	171-200	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to 120 BA.</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> May need specifications/seasonal restrictions to prevent rutting of saturated soils.</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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91 61050091-Cut	48.1	4130 - Aspen	Sawtimber Well	54		Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription Clearcut to a 2" dbh limit. Cut and leave 1-2 10"+ dbh trees per acre for CWD/drumming logs. Retain some overmature white pine, scattered mixed-species islands, and all oak. Leave the larger patches of red pine, but these patches could be marked for thinning. Scattered individual red pine could also be retained. Use appropriate specs/seasonal restrictions to prevent oak wilt infection in residual oak.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen with some white and red pine, red maple, cherry and oak.

Regen:

Other May need seasonal restrictions or other specs to address rutting potential.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

93 61050093-Cut	8.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	56	81-110	Harvest	Crown Thinning	42201 - Natural White Pine, Mixed Deciduous	Uneven-Aged	No
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Prescription Remove aspen to favor white pine/oak. Thin pine and oak, residual BA about 60. Retain advanced regeneration where possible. Use appropriate specs/seasonal restrictions to prevent oak wilt infection in residual oak.

Next Step

Treatments:

Acceptable white pine, oak, red maple and aspen mix; maybe some red pine as well

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

94 61050094-NF	7.2	3303 - Mixed Low Density Trees	Nonstocked		Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	31022 - Warm Season Grass		No
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Prescription Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic, and/or mow if burning is not feasible. Remove invasive species mechanically or with herbicide treatment.

Next Step

Treatments:

Acceptable

Regen:

Other Goal here is to mimic a barrens type community. Stands to include are 43, 59, 58, 94, and 71.

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
111 61050111-Cut	24.7	4123 - Red Oak	Sawtimber Well	90	111-140	Harvest	Shelterwood with Retention	4121 - Oak, Aspen	Two-Aged	No
<p><u>Prescription</u> Leave an average of 40-50 BA of good quality oak and maple, a little higher in places; much lower in areas with aspen. Use appropriate specs/seasonal restrictions to prevent oak wilt infection in residual oak.</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> oak, aspen, red maple</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand may have oak wilt patches - alter sale specs if needed for oak wilt treatment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
112 61050112-Cut	15.9	4130 - Aspen	Poletimber Well	54		Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" dbh limit. Retain a couple small, mixed-species islands plus some scattered mature pine and oak. Cut and leave 1-2 10"+ dbh trees per acre for CWD/drumming logs. Use appropriate specs/seasonal restrictions to prevent oak wilt infection in residual oak.</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> aspen with white pine, oak, red maple</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 61050123-Cut	4.5	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	83	51-80	Harvest	Overstory Removal	4113 - R.Maple, Conifer	Even-Aged	No
<p><u>Prescription</u> Cut all trees >5"dbh; leave a few RM seed trees; leave young fir as possible.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red maple, aspen, balsam fir, 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>										
127 61050127-Cut	19.2	42210 - Natural Red Pine	Sawtimber Well	91	141-170	Harvest	Crown Thinning	42210 - Natural Red Pine	Uneven-Aged	No
<p><u>Prescription</u> Thin pine and remove most of the declining aspen. Take out much of the over-sized red pine.</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 ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
136	61050136-Cut	16.8	4130 - Aspen	Poletimber Well	55	111-140	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut, retaining oak, pine, and a couple retention islands. Cut and leave 1-2 10"+ dbh trees per acre for CWD/drumming logs. Use appropriate specs/seasonal restrictions to prevent oak wilt infection in residual oak.</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> aspen with oak, 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>											
138	61050138-Cut	32.9	4110 - Sugar Maple Association	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for selection, residual BA 90. Create some CWD during harvest.</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> Maple, basswood, and cherry desired; beech and ironwood will likely dominate in the short term in canopy gaps.</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>											
144	61050144-Cut	44.3	4130 - Aspen	Poletimber Medium	48		Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" diameter limit. Retain oak and some scattered mixed-species residual islands. Cut and leave 1-2 10"+ dbh trees per acre for CWD/drumming logs. Use appropriate specs/seasonal restrictions to prevent oak wilt infection in residual oak.</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> aspen with white pine, red maple, cherry and oak</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>											
146	61050146-Cut	23.8	4130 - Aspen	Poletimber Well	48		Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" dbh limit. Retain oaks, some mature pine, and mixed-species retention islands. Cut and leave 1-2 10"+ dbh trees per acre for CWD/drumming logs. Use appropriate specs/seasonal restrictions to prevent oak wilt infection in residual oak.</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> aspen with white pine, red maple, and oak</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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147	61050147-Cut	7.7	4130 - Aspen	Sawtimber Well	60	Unspec ified	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription Clearcut to 2" dbh. Retain hemlocks and some scattered hardwoods. Cut and leave 1-2 10"+ dbh trees per acre for CWD/drumming logs.
Specs:

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

Acceptable aspen, plus some red maple, cherry, and fir
Regen:

Other
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2020

156	61050156-Cut	27.7	4130 - Aspen	Poletimber Well	39		Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription Clearcut to 2" dbh limit. Retain oaks, some mature pine, and mixed-species retention islands. Cut and leave 1-2 10"+ dbh trees per acre for CWD/drumming logs. Use appropriate specs/seasonal restrictions to prevent oak wilt infection in residual oak.
Specs:

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

Acceptable aspen with some red maple and cherry
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

161	61050161-Cut	11.3	4130 - Aspen	Poletimber Well	39	Unspec ified	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription Clearcut to 2" dbh. Retain one or two residual islands totaling about 1/2 acre, plus any elm. Cut and leave 1-2 10"+ dbh trees per acre for CWD/drumming logs.
Specs:

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

Acceptable aspen, plus some mixed hardwoods
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

168	61050168-Cut	38.4	4110 - Sugar Maple Association	Sawtimber Well	106	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
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Prescription Mark for selection, residual BA 90. Create some CWD during harvest.
Specs:

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

Acceptable Maple, basswood, and cherry desired; beech and ironwood likely to dominate in the short term in canopy gaps.
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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Total Treatment Acreage Proposed: 690.9

Report 4 – Site Conditions

Traverse City Mgt. Unit

Tim Webb : Examiner

Compartment: 50

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres With Condition	Acres Not Available
844	644	173	27

Dominant Site Conditions

	Total Acres	Acres Available	Acres With Condition	Acres Not Available	Dominant Site Conditions													
					2B	2I	5B	5C	1C	2F	2G	2H	3B	3G	3J	3L	5A	5E
844	644	173	27	Aspen	7	8	9	149		16	0		9					2
67	0	0	67	Cedar						67								
11	0	0	11	Hemlock													11	
136	132	0	4	Herbaceous Openland						0				4				
84	84	0	0	Low-Density Trees														
48	0	0	48	Lowland Aspen/Balsam Poplar						35				14				
94	4	0	90	Lowland Conifers						51				39				
2	0	0	2	Lowland Deciduous						2								
39	0	0	39	Lowland Mixed Forest						11				27				
238	234	0	4	Lowland Shrub						0				4				
85	85	0	0	Marsh														
103	55	40	7	Mixed Upland Deciduous	2			39							7			
13	0	13	0	Natural Mixed Pines				13										
286	176	5	106	Northern Hardwood	5				5	3				98				
50	45	6	0	Oak				6										
267	267	0	0	Red Pine														
26	0	0	26	Tamarack						26								
127	61	48	18	Upland Mixed Forest			48					14			4			
5	4	0	1	Upland Shrub										1				
84	81	0	3	Urban				0						3				
6	6	0	0	Water										0				
139	119	0	20	White Pine						3	0	13	2			3		
2,756	1,998	284	473	Total Forested Acres	13	8	57	206	5	21	192	27	11	191	11	3	11	2
	72%	10%	17%	Relative Percent														

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
2	Unavailable	3G: Other Influence zones - See comments	191	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
 Part of a potential old growth area nominated in 1997, now being forwarded as a Special Conservation Area to perpetuate mature forest cover and protect springs and seeps feeding into the Boardman River. Management ability is severely limited by these water features and by steep terrain.

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3	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2F: Too steep	16	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Steep slope. Allow to succeed to hardwoods.							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: Stand is a narrow strip of mature trees along the banks of Jaxon Creek. Retain for riparian habitat.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Jaxon Creek within stand							
13	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	36	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Jaxon Creek riparian zone							
16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	3J: Water quality / BMPs (stream, river, or lake)	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified
Comments: Swaintson Creek runs through stand.							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	2B: Unknown if access through adjacent landowner(s) is possible	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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20	Available	2B: Unknown if access through adjacent landowner(s) is possible	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2F: Too steep	3	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	3J: Water quality / BMPs (stream, river, or lake)	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified
Comments: Swaintson Creek							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	2J: Blocked by Railroad	Unspecified	Unspecified	Unspecified
Comments: Stand is between Swaintson Creek and railroad, only accessible by foot.							
30	Unavailable	3L: Other wildlife concerns	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Leave unmanaged for riparian habitat. Adjacent to Swaintson Creek.							
31	Available	2I: Survey needed	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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32	Unavailable	3B: Threatened, endangered, and special concern species	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	5A: Not able to obtain desirable regeneration	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	58	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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Compartment: 50

Year of Entry: 2021

38	Available	5B: Maintain for regeneration purposes	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	1D: Interest Group / Neighbor	Unspecified	Unspecified	Unspecified
Comments:							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
	Spring Wetlands Riparian Area	Riparian Area	Error	191
Comments Repositioned based on Site Condition				
	Spring Wetlands Riparian Area	Riparian Area	SCA Removal	206
Comments Riparian area with multiple springs, seeps.				



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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
1	500 - Water	Nonstocked	0.6			No	Boardman River																																							
2	622 - Lowland Shrub	Nonstocked	3.9			No	2009 comments: Large, open marshy area in the middle surrounded by alder and sparse trees. 2019: stand not visited; data unchanged from 2009 field survey.																																							
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3	6124 - Lowland Spruce-Fir	Poletimber Medium	23.2	67	111-140	N/A	2009 comments: Streams run through stand. Little deer sign. Balsam fir regeneration is thick in blowdown patches. Scattered paper birch, aspen. 2019: stand not visited; data unchanged from 2009 field survey.																																							
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4	4115 - Y.Birch, Hemlock NH	Sawtimber Well	8.3	100	171-200	N/A	Stand is on a steep hillside with some seeps, streams, and gullies emerging. Scattered white birch.																																							
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5	4119 - Mixed Northern Hardwoods	Sawtimber Well	37.2	103	111-140	N/A	Some red oak here and there. Most of the stand is on a steep hillside. Stand is part of the 1997 potential old growth area. Some seeps and streams emerge from the hillside.																																							
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6	31021 - Cool Season Grass	Nonstocked	2.4			No	2009 comments: Old well site. Access road bermed. Seeps. Cool season grasses. LBS. rubus, 2 autumn olives, brome spp, SJW, clover, SKW, moss.																																							
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7	3301 - Low Density Deciduous Trees	Nonstocked	18.9			No	Photo #1166																																				
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8	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	3.7	100	111-140	N/A	Stand is in a draw with a stream. Some deer sign.																																						
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9	4311 - Pine, Aspen Mix	Sawtimber Poor	3.8	45	1-50	N/A	Gas pipeline R.O.W. crosses stand. Old apple trees in poor shape.																																												
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10	110 - Low Intensity Urban	Nonstocked	1.4			No	Access road to private residences.																				
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11	310 - Herbaceous Openland	Nonstocked	1.4			No																					
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12	4130 - Aspen	Poletimber Well	4.4	27	Immature	N/A	Slow growing.																																																
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13	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	7.3	50		N/A	Stand is in the Boardman River floodplain. Seeps and streams in stand. This was an ash stand in the previous inventory, but with ash die off, cedar and fir now dominate the overstory. Lots of winter deer sign. Scattered maple, yellow birch, and cherry.																																																
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14	3103 - Rubus-Fern	Nonstocked	3.1			No	Bracken, poverty grass, juneberry, red maple, white pine, quaking aspen, black cherry, SJW, grass spp, old stumps.																																																
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15	500 - Water	Nonstocked	3.0			No	Boardman River																																																
16	4119 - Mixed Northern Hardwoods	Sawtimber Medium	60.6	93	111-140	N/A	Diverse stand with irregular terrain, ranging from moderate north facing slopes to some more level areas that may be at least seasonally wet. The stand is incised by several deep ravines with flowing streams. Conifers are more concentrated in and along these ravines. Small amounts of paper birch, cedar, oak, ironwood, and fir. Stand was part of the 1997 potential old growth area.																																																
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17	3103 - Rubus-Fern	Nonstocked	2.2			No	SG 5/13/09- runs along 2 trk/snowmobile trail Strawberry, Yarrow, S. Sorrel, Cinquefoil, AO																																																
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18	4130 - Aspen	Sapling Medium	20.8	18	Immature	N/A	Stand abuts snowmobile trail. There is an inclusion of pole-sized hardwoods (mostly red maple) on the west side of the stand.																																					
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19	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	7.3	100	81-110	N/A	Fairly open, sparse stand; retain for local age/size diversity. Stand has a few red oak and sugar maple.																																					
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20	3202 - Autumn Olive/Honeysuckle	Nonstocked	1.3			Managed Opening	Old well pad.																																					
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21	42110 - Planted Red Pine	Poletimber Well	7.8	58	141-170	N/A	Two parts of stand, split by snowmobile trail. SI trees: 9" 46 ft.; 8", 51 ft. in 2009 inventory. Scattered aspen, cherry. Part S. of trail was 3rd row thinned in fall 2012; smaller part N. of trail was marked for thinning.																																					
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22	310 - Herbaceous Openland	Nonstocked	2.1			No	Powerline R.O.W																																					
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23	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	8.9	77		N/A	Deer yarding. Some very dense fir and other coniferous saplings in canopy gaps. Patchy, mixed ages. Some supercanopy white pine.																																					
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24	3105 - Mixed Upland Herbaceous	Nonstocked	1.0			No	Old well pad.																																					
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25	3303 - Mixed Low Density Trees	Nonstocked	2.7			No	SG 5/13/09- No R/X. Old stumps. POV, Bracken, Clad, WHz, RO, RM, WP, strawberry, hawkweed, lyco, juniper seed, LBS									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Oak (spp.)	Trace	Variable	Sapling					
								Witch Hazel	Trace	5 - 10 feet	Tall Shrub					
								Red Maple	Low	>20 feet	Log					
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26	3103 - Rubus-Fern	Nonstocked	2.7			No	2009 comments: Bracken, poverty grass, juneberry, red maple, white pine, quaking aspen, black cherry, SJW, grass spp, old stumps.									
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White Oak	Trace	Variable	Sapling													
27	310 - Herbaceous Openland	Nonstocked	1.3			No	Unnatural opening along the river. There is an odd, circular pile of pine slash. Stand not visited in 2019, data copied from 2009.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Ninebark	Trace	Unspecified	Tall Shrub					
								Conifers	Low	Unspecified	Pole					
								White Pine	Trace	Unspecified	Log					
Black Cherry	Low	Unspecified	Pole													
28	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	23.6	95	141-170	N/A	Stand is on a hillside with numerous seeps, streams, saturated soil. Lots of blowdown. Scattered paper birch, red oak, tamarack, balsam fir, basswood.									
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								Hemlock	20	Log/Pole	12		Hemlock	Low	Variable	Sapling
29	500 - Water	Nonstocked	2.8			No	Open water pond along road.									
30	31021 - Cool Season Grass	Nonstocked	1.1			No	TW 2019 Abandoned gas well pad. SG 5/13/09- 2 trk access, well site									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
31	6112 - Lowland Aspen	Sawtimber Medium	13.6	74	Unspecified	N/A	Gently sloping/terraced, hummocky. Small opening in stand. North end has a conifer component; south end mostly just deciduous. Scattered beech, oak.																																									
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32	4119 - Mixed Northern Hardwoods	Sawtimber Well	13.2	93	81-110	N/A	Some of the stand is on a steep hillside.																																									
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33	3103 - Rubus-Fern	Nonstocked	1.9			No	2009 comments: Bracken, poverty grass, sedge, red maple, Black cherry, old stumps, lyco, SJW, strawberry, sheep sorrel, sedge, hawkweed, cladonia, LBS, several oak saps, 1 white pine sap. Photo #1168																																									
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34	622 - Lowland Shrub	Nonstocked	4.5			No	Open water area included in stand.																																									
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35	122 - Road/Parking Lot	Nonstocked	22.1			No	Railroad grade and a section of River Road																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
36	4131 - Aspen, Oak	Sawtimber Well	16.2	75	Unspecified	N/A	Some paper birch, beech, red pine, white oak; fir, tamarack, and cedar adjacent to pond, and cedar in seepage area in SE part of stand. Aspen is younger on fringes of stand, edges of openings. Old borrow pit within stand.																																																		
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37	42200 - Natural White Pine	Sawtimber Medium	11.5	62	141-170	N/A	Open grown, limby pine. 2009 SI tree: 13", 49'.																																																		
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38	31021 - Cool Season Grass	Nonstocked	3.1			No	2009 comments: Old well pad? Some mullein and knapweed showing above the snow.																																																		
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39	6112 - Lowland Aspen	Sawtimber Poor	3.8	60		N/A	Driveway R.O.W. through stand to private residence. Stand is succeeding to fir.																																																		
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40	3105 - Mixed Upland Herbaceous	Nonstocked	2.2			No	TW 2/19/09- Abandoned well pad. SG 5/13/09- 2 trk access, tracjk use. Old well site. Sand																																																		
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41	4133 - Aspen, Mixed Pine	Sapling Well	5.8	18	Immature	N/A	2-storied: remnant white pine poles over aspen regen. Also some larger remnant oak and red maple.																																																		
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42	4130 - Aspen	Poletimber Well	53.0	27	Immature	N/A																																									
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43	31022 - Warm Season Grass	Nonstocked	14.9			No	Old channel or ditch.SG 5/1/2009 - Bracken, poverty grass, LBS, cladonia, white pine, white oak, red maple, juniper, quaking aspen, black cherry. Lycopodium, SJW, hawkweed, sheep sorrel, juneberry, SKW, old stumps, sedge, grass spp, strawberry. Very nice meandering opening. Some minor quaking aspen encroachment. Has savanna/barrens look. Should at least maintain status quo and even improve quality of this stand.																																								
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44	310 - Herbaceous Openland	Nonstocked	1.4			No	Old well pad.																																								
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45	110 - Low Intensity Urban	Nonstocked	11.1			No	Gas pipeline R. O. W.																																								
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46	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	38.8	57	111-140	N/A	Generally a pole to small sawlog-sized stand with scattered remnant oak and pine. Some super-canopy white pine.																																								
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47	31021 - Cool Season Grass	Nonstocked	2.7			No	TW 2/19/09- Old well pad adjacent to active C.P.F. SG 5/13/09- 2 track access. Right next to oil/gas facility																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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57	4119 - Mixed Northern Hardwoods	Sawtimber Well	2.5	95	141-170	N/A	Scattered red oak.																																
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58	31022 - Warm Season Grass	Nonstocked	6.3			No																							
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59	3303 - Mixed Low Density Trees	Nonstocked	26.3			No	SG 5/13/09- 2 trk access, heavy bracken, well sites, hummocks, old stumps Bracken, LBS, POV, Clad, RM, JB, WP, BC, S. Sorrel, Sedges, Hawkweed, SJW, SKW, moss, strawberry, hairgrass, chch, WHzClump of lilac at east end. Scattered hawthorn, choke cherry. May be wet in places in certain years.																																										
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60	4139 - Aspen, Mixed Deciduous	Poletimber Well	7.8	27	Immature	N/A	Some remnant white oak, red oak, fir, white pine, and hemlock.																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
61	3102 - Grass	Nonstocked	6.1			No	2009 WLD comments: wide open area. LBS, panicum sp., brome sp, cladonia, poverty, bracken, SKW, cool season grasses, red pine, black cherry, sheep sorrel, sedge, moss, mullien, golden rod, wild bergamont, 2 junipers, one autumn olive, honeysuckle.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Low	Variable	Sapling	
								Quaking Aspen	Trace	10 - 20 feet	Pole	
								Black Cherry	Low	>20 feet	Pole	
Balsam Fir	Trace	5 - 10 feet	Sapling									
White Oak	Trace	>20 feet	Pole									
62	3104 - Degraded	Nonstocked	1.0			No	Old well pad. Some knapweed showing above the snow.					
63	6112 - Lowland Aspen	Sawtimber Poor	9.3	56		N/A	Poor ring count on aged tree. Much mortality, numerous snags.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	90	Log/Pole	11	56
								White Pine	10	Pole/Log	8	
Sub-Canopy Species	Density	Avg. Height	Size									
Quaking Aspen	Low	10 - 20 feet	Sapling									
Deciduous Shrubs	Medium	5 - 10 feet	Tall Shrub									
Dogwood (spp.)	High	5 - 10 feet	Tall Shrub									
64	6120 - Lowland Cedar	Poletimber Well	26.4	140		N/A	2009 comments: Variable density: some fairly dense areas, some sparser areas and canopy gaps from blowdown. A little deer sign, but no browse. Little understory except overtopped cedar saplings and some balsam fir in gaps. There is an inclusion of some older, larger trees in the southwest corner. Mistletoe is present in black spruce. Some super-canopy white pine are scattered throughout; occasional red maple, hemlock, fir in canopy. 2019: stand not visited; data unchanged from 2009 field survey.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Spruce	10	Pole	8	
								Northern White Cedar	55	Pole/Log	8	140
Tamarack	30	Pole	7									
Sub-Canopy Species	Density	Avg. Height	Size									
Balsam Fir	Low	Variable	Sapling									
Northern White Cedar	Medium	>20 feet	Sapling									
65	4131 - Aspen, Oak	Poletimber Well	30.7	54	111-140	N/A	Decent quality oak. Scattered veteran oak. Maple is multi-stemmed. A few white oak, beech present. Most of the aspen is north of the snowmobile trail.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	40	Pole/Log/XLog	9	
								Bigtooth Aspen	40	Pole	8	54
White Pine	15	Log/Pole	10									
Sub-Canopy Species	Density	Avg. Height	Size									
White Pine	Medium	Variable	Sapling									
Red Oak	Low	Variable	Sapling									
White Oak	Low	Variable	Sapling									
66	6120 - Lowland Cedar	Poletimber Poor	13.4	105		N/A	2009 comments: Stunted trees, many are dead or have dead tops. Cattails, marshy looking. Streams run through stand. 2019: stand not visited; data unchanged from 2009 field survey.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern White Cedar	85	Pole/Sapling	5	105
								Tamarack	10	Pole/Sapling	6	
Sub-Canopy Species	Density	Avg. Height	Size									
Balsam Fir	Low	5 - 10 feet	Sapling									
Tamarack	Low	5 - 10 feet	Sapling									
67	4131 - Aspen, Oak	Poletimber Well	12.0	44		N/A	Large, mature oaks scattered throughout the stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	15	Log/Pole	10	
								Bigtooth Aspen	67	Pole	7	44
Sub-Canopy Species	Density	Avg. Height	Size									
White Oak	Medium	Variable	Sapling									
White Pine	Low	Variable	Sapling									
Red Maple	Low	Variable	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
68	42110 - Planted Red Pine	Poletimber Well	40.8	58	141-170	N/A	SI trees: 7"/48', 7"/45', 8"/52' in 2009 inventory. 3rd-row thinned fall 2012. 2019: mean BA 148 from 6 plots.																																																					
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69	31022 - Warm Season Grass	Nonstocked	2.4			Managed Opening	2009 comments: Old well pad. Degraded? Pretty open except for a few pine saplings. Knapweed heads above snow.																																																					
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70	4310 - Pine, Oak Mix	Sawtimber Well	47.8	93	81-110	N/A	Aspen is patchy in distribution, mainly in east-central part of stand (about 5 acres) that was left uncut in the fall 2012 to allow pole aspen/oak to develop thinning of the stand. White pine is uneven-aged. Small amounts of hemlock, red maple, and beech in the stand, mostly south of Blair Townhall Rd. 2019 BA about 95.																																																					
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71	3103 - Rubus-Fern	Nonstocked	16.4			No	SG 5/12/09- Some trash. Probably some brome. Strawberry, Hawkweed, wormwood, clad, ant mounds, golden rod, hawthorn, oak grubs occ old stump																																																					
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73	42110 - Planted Red Pine	Sawtimber Well	9.1	62	171-200	N/A	2019 BAs: 220, 160, 180, 170; mean 182. Thick hardwood sapling understory: red maple, cherry, white oak, beech, aspen.																																					
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74	4139 - Aspen, Mixed Deciduous	Poletimber Well	34.9	52		N/A	2009 comments: Scattered white ash and red pine. Hummocky, may be seasonally wet. 2019: inclusion of aspen saplings at north end of the east arm of the stand. A few hemlock, birch, red pine, red oak.																																					
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75	4133 - Aspen, Mixed Pine	Sawtimber Well	17.4	49	81-110	N/A	2009 comments: Strong successional advancement to white pine-red oak. Aspen generally poor quality, some mortality & snags.																																					
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76	3303 - Mixed Low Density Trees	Nonstocked	1.1			No	2009 comments: red, jack, white pine saplings. LBS, poverty grass, bracken, cladonia, basswood, white oak, SJW, trout lily, sheep sorrel, SKW, large wolfy white oak on west edge. Nice M3 stand on north edge.																																					
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77	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	18.6	72	81-110	N/A	Scattered red pine, white oak, balsam fir, paper birch, lowland conifers. Aspen is primarily on fringes/low areas not included in 2015 harvest. 2015 harvest removed most of the aspen, thinned WP and RM. Stand is hummocky, wet in places. White pine seedlings are starting to fill in some canopy gaps.																																					
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78	3303 - Mixed Low Density Trees	Nonstocked	7.8			No	2009 WLD comments: Bracken, sedge, poverty grass, cladonia, LBS, black cherry, white pine, red oak, birch, occ old stump, sheep sorrel, golden rod, strawberry, SJW.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
79	3103 - Rubus-Fern	Nonstocked	2.1			No	2009 comments: Bracken, poverty grass, sedge, moss, cladonia, SJW, white pine, red pine, black cherry, red maple, red oak, old pine stumps, strawberry, forb sp., sheep sorrel, LBS. Two track access. Nice natural opening. Lots of oak leaf litter.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Oak	Trace		Pole	
								Black Cherry	Low		Pole	
								Red Maple	Low		Log	
Pines (spp.)	Low	Variable	Sapling									
80	4310 - Pine, Oak Mix	Sawtimber Poor	6.1	65	81-110	N/A	Open grown trees in an old field. Ages variable.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	50	Log/Pole	12	65
								White Pine	45	Log/Pole	12	
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White Pine	Low	Variable	Sapling									
Red Oak	Low	Variable	Sapling									
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81	4123 - Red Oak	Sawtimber Medium	10.4	83	81-110	N/A	2009 comments: Generally poor to fair quality, but a few decent red oak stems. Mostly multi-stemmed trees. Sparse understory. Leave for mast/habitat diversity. Small amount of white pine.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	30	Log/Pole	12	
								Beech	10	Log/Pole	12	
								Red Oak	57	Log/Pole/XLog	14	83
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low	>20 feet	Sapling	
White Pine	Low	>20 feet	Pole									
Ironwood	Low	Variable	Sapling									
White Oak	Low	Variable	Sapling									
Beech	Low	Variable	Sapling									
82	310 - Herbaceous Openland	Nonstocked	8.2			No	Powerline R. O. W.					
83	42110 - Planted Red Pine	Poletimber Well	7.9	55	171-200	N/A	Scattered pole-sized cherry.					
								Canopy Species	% Cover	Size Class	DBH	Age
	Red Pine	92	Pole/Log	9	55							
84	6233 - Wet Meadow	Nonstocked	22.4			No	TW 2/9/09- Currently appears to be dry, but may be periodically or seasonally wet. SG 5/12/09- Foundations, garbage, needs survey markers 2019: stand has been mostly inundated in the last few years; cover type therefore switched from grass to wet meadow. There may still be some dry patches, but mostly wet at this time.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Low		Pole	
								White Oak	Trace		Pole	
								Willow spp.	Trace		Tall Shrub	
								Red Oak	Trace		Log	
								Hawthorn (spp.)	Trace		Tall Shrub	
Pines (spp.)	Trace		Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
85	3202 - Autumn Olive/Honeysuckle	Nonstocked	2.0		Unspecified	No	2009 comments: Old well pad planted to autumn olive, pine volunteers. Autumn olive is along edges and in a "V" into the middle of the opening. Some mullein showing above snow.																																													
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86	4130 - Aspen	Poletimber Medium	28.0	43		N/A	2-storied: remnant red oak and multi-stemmed red maple over A/O poles. Patchy timber, some openings. Scattered red pine. Mixed deciduous understory includes red maple, black cherry, ironwood.																																													
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87	42110 - Planted Red Pine	Poletimber Well	54.6	65	171-200	N/A	Occasional oak, cherry, white pine, red maple.. Stand has been thinned twice. 2019 BAs: 180, 150, 220, 200; mean 188.																																													
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89	6239 - Mixed Emergent Wetland	Nonstocked	44.4			No	SG 5/12/09- Berm or old road grade along east edge.RTH nest nearby at SE corner Old ORV damage Small rise in N center- 4 BC p11 AD #43, 44, 45Hairgr, LBS, golden rod, turtle nests?, switch, SKW/ Hawk, Clad/moss, pussy toes, cinquefoil (common?), Iris, cattail, occ. dandelion2019: stand not visited; data unchanged from 2009 field survey.																																													
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90	42110 - Planted Red Pine	Poletimber Well	13.0	62	171-200	N/A	Thick deciduous saplings over most of the stand: red maple, cherry, beech, white oak, aspen. 2019 BA about 190. North part of stand appears somewhat wet.																																													
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91	4130 - Aspen	Sawtimber Well	48.1	54		N/A	Stand includes several small patches of planted red pine. Stand appears somewhat hummocky; may be seasonably wet, especially in the NE part of the stand. Scattered beech, paper birch.																																													
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92	4130 - Aspen	Sapling Well	10.1	16	1-50	N/A	2-storied: reserve trees over aspen regen. Scattered white oak.																																					
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93	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.1	56	81-110	N/A	2009 comments: Variable age/size in aspen. At east end, aspen is older, declining.																																					
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94	3303 - Mixed Low Density Trees	Nonstocked	7.2	Immature	No		2009 comments: Along road; adjacent residences. Bracken, LBS, poverty grass, SKW, cladonia, white pine, red oak, red maple, black cherry. Wormwood, moss, sedge, juneberry, honeysuckle, lyco, SJW, sheep sorrel, strawberry.																																					
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95	3302 - Low Density Conifer Trees	Nonstocked	3.9		No		TW 2/2/09- NE part is an old well pad; SW part is an old homestead with lilacs, apple trees. SG 4/9/09- Old foundation, 2 track Terrain flat but slightly bumpy Fire might carry in spots Block 2 tracks?																																					
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96	4130 - Aspen	Poletimber Well	5.0	37	Unspecified	N/A																																						
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97	122 - Road/Parking Lot	Nonstocked	1.1			No	Blair Townhall Road.																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
98	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	1.7	64	81-110	N/A	
99	6220 - Alder/willow	Nonstocked	154.1			No	TW 2/26/09- cattail patches visible above snow 2019: stand not visited; data unchanged from 2009 field survey.
		Sub-Canopy Species		Density	Avg. Height	Size	
		Balsam Fir		Low		Sapling	
		Willow spp.		Medium		Tall Shrub	
		Cattail spp.		Low		Non-Wood	
		Tag Alder		Medium		Tall Shrub	
		Tamarack		Trace		Sapling	
100	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	12.4	55	51-80	N/A	2009 comments: Semi-open, heterogenous stand. Red maple is mostly stump sprouts. Oak is of variable quality. Aspen appears to be of various size/age classes. Trace of jack pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Pole/Log	8		White Pine	
Red Oak		40	Log/Pole/XLog	10	55	Ironwood	
Bigtooth Aspen		30	Pole/Log	8		Deciduous Saplings	
						Low	
						Variable	
						Sapling	
101	4133 - Aspen, Mixed Pine	Sapling Medium	31.5	7	1-50	N/A	WP >20" dbh, plus all oak/fir/RP were retained when this stand was clearcut in 2012. Scattered hemlock. Most of the red pine is in one patch.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		65	Sapling	1	7		
White Pine		22	Sapling	2			
102	42200 - Natural White Pine	Sawtimber Well	20.6	86	111-140	N/A	2009 comments: WP is quite variable in size and age. Cored tree is a dominant, but there are some larger ones. Good quality WP. SI tree: 16", 76 years, 62' tall. 2019 BAs: 130, 110, 150, 160; mean 137.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		6	Pole	7		White Pine	
White Pine		68	Log/Pole/XLog	12	86	Black Cherry	
Red Pine		10	Log/Pole	13		White Pine	
						High	
						Variable	
						Sapling	
						Low	
						5 - 10 feet	
						Sapling	
						Low	
						>20 feet	
						Pole	
103	6112 - Lowland Aspen	Sawtimber Medium	21.7	64	141-170	N/A	2-storied stand of mature, declining quaking aspen over mixed conifer poles.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		24	Log/Pole	10		Balsam Fir	
Quaking Aspen		60	Log/Pole	12	64	Northern White Cedar	
White Pine		10	Log/XLog/Pole	14		Hemlock	
						Tag Alder	
						High	
						Variable	
						Sapling	
						Low	
						Variable	
						Pole	
						Low	
						>20 feet	
						Pole	
						Medium	
						10 - 20 feet	
						Tall Shrub	
104	110 - Low Intensity Urban	Nonstocked	3.2			Managed Opening	TW 2/2/09- Active oil well pad and access road loop.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
105	310 - Herbaceous Openland	Nonstocked	1.4			Managed Opening	Old well pad. Knapweed showing above snow.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Autumn Olive	Trace	< 5 feet	Tall Shrub	
								Quaking Aspen	Trace	Variable	Sapling	
								White Pine	Low	Variable	Sapling	
Black Cherry	Trace	10 - 20 feet	Sapling									
106	4123 - Red Oak	Sawtimber Medium	5.6	83	81-110	N/A						
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	75	Log/Pole/XLog	14	83
								White Oak	8	Log/Pole	12	
								White Pine	10	Pole/Log	8	
Sub-Canopy Species	Density	Avg. Height	Size									
White Pine	High	Variable	Sapling									
107	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	27.7	67	111-140	N/A	2019 BAs: 120, 130, 120, 130, 130, 150; mean 130.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	7	Log	14	
								Quaking Aspen	15	Pole/Log	8	
								Bigtooth Aspen	10	Pole	8	
White Pine	63	Pole/Log	9	67								
Sub-Canopy Species	Density	Avg. Height	Size									
White Pine	High	Variable	Sapling									
Deciduous Saplings	Low	5 - 10 feet	Sapling									
108	3101 - Poverty Grass, Cladonia	Nonstocked	1.1			No	TW 2/2/09- Stand is in a kettle depression.SG 4/9/09- Some snow, aspen on perimeter stand					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Trace		Pole	
109	4130 - Aspen	Poletimber Well	6.4	43		N/A	2009 comments: More oak, older trees at north end of stand on north facing slope.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	6	Log/Pole	12	
								Bigtooth Aspen	90	Pole	7	43
								Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	Medium	Variable	Sapling									
White Oak	Low	Variable	Sapling									
Beech	Low	Variable	Sapling									
Ironwood	Medium	Variable	Sapling									
110	310 - Herbaceous Openland	Nonstocked	2.6			No	2-track road and pipeline ROW					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Deciduous Saplings	Trace	Variable	Seeding	
White Pine	Trace	Variable	Seeding									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
111	4123 - Red Oak	Sawtimber Well	24.7	90	111-140	N/A	2009 comments: Various sizes, ages. A second age on red oak from core = 56, aspen = 45. Some good quality oak poles/small sawlog trees, but older veteran oak are poorer quality. Let grow 10-20 years, then consider aspen removal to release better oak. Aspen is unevenly distributed in the stand. Some ash, white oak present.																																									
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112	4130 - Aspen	Poletimber Well	15.9	54		N/A	2009 comments: Remnant oak. Swath of smaller/younger aspen along south edge of stand (avg. 3-4" dbh).																																									
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113	4199 - Other Mixed Upland Deciduous	Poletimber Well	34.7	60	81-110	N/A	2009 comments: 2-storied stand: remnant red oak and white pine over A/O/WP saplings and poles. Pine, aspen are unevenly distributed in the stand. Age is on a 9" dbh oak of the the predominant canopy size class, but many veteran oaks are older, larger. Occasional red maple, white oak.																																									
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114	623 - Emergent Wetland	Nonstocked	18.6			No	Old beaver flooding; numerous stumps; dead standing shrubs. Phragmites patch in NE corner. 2019: stand only viewed from edge; data unchanged from 2009 field survey.																																									
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115	3101 - Poverty Grass, Cladonia	Nonstocked	2.1			No	TW 1/28/09- Could plant shrubs, conifers on edge. NE end is in a kettle depression.SG 4/9/09- SW lots of browsed oak grubs, some aspen suckersPost 2 track/quad trail on west side leading to PI 107Nice opening but most is on pvtLots of old pine stumps, deer blind, 3+ deerQuad use																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
116	4319 - Mixed Upland Forest	Sawtimber Well	50.5	89	81-110	N/A	White pine appears to be quite variable in age. 2019 BAs: 130, 140, 60, 110, mean 110.																																				
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117	6121 - Tamarack	Sawtimber Poor	24.7	97		N/A	Fair amount of blowdown. Flowage through stand.																																				
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118	3105 - Mixed Upland Herbaceous	Nonstocked	2.4			Managed Opening	TW 1/28/09- Abandoned well pad. Oaks creeping in, especially along north edge. SG 4/9/09- NW corner has clump of RO sap. Young pole aspen on East edge. Could cut thin strip to encourage suckering into opening. Plant- sand adapted perennials or shrubs? Milkweed, rubs, some oak logs only																																				
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119	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	3.6	35		N/A																																					
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120	3105 - Mixed Upland Herbaceous	Nonstocked	0.9			No	SG 4/9/09- Quad trail, nice BTA east of stand, deer trx, old stmps																																				
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121	310 - Herbaceous Openland	Nonstocked	2.0		Immature	No	Gas pipeline R.O.W.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
122	629 - Mixed non-forested wetland	Nonstocked	44.7			No	Standing, flood-killed timber predominates the stand. Regenerating to lowland conifers. Gas pipeline and creek cross through stand.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Northern White Cedar	Trace	Unspecified	Pole	
								Tamarack	Low		Sapling	
								Balsam Fir	Medium		Sapling	
								Tag Alder	Medium	Unspecified	Tall Shrub	
								Willow spp.	Low		Tall Shrub	
								Balsam Fir	Low		Pole	
								Phragmites (spp.)	Trace	Unspecified	Non-Wood	
								Hemlock	Trace	Variable	Sapling	
								Red Maple	Trace	>20 feet	Pole	
								Paper Birch	Trace	>20 feet	Pole	
								White Pine	Trace	>20 feet	Pole	
123	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	4.5	83	51-80	N/A						
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	88	Log/Pole	12	83
								Sub-Canopy Species	Density	Avg. Height	Size	
								Balsam Fir	Full	Variable	Sapling	
Deciduous Saplings	Low	Variable	Sapling									
124	4130 - Aspen	Poletimber Well	6.6	43		N/A	Remnant white pine, oak, red pine and red maple (just a few RP and RM). Mixed deciduous saplings: red maple, ironwood, white oak.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	8	Log/Pole	12	
								Bigtooth Aspen	90	Pole	7	43
Sub-Canopy Species	Density	Avg. Height	Size									
White Pine	Medium	Variable	Sapling									
Deciduous Saplings	Low	Variable	Sapling									
Witch Hazel	Low	5 - 10 feet	Tall Shrub									
White Pine	Trace	>20 feet	Pole									
125	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	11.3	90	141-170	N/A	Good winter thermal cover, but no available browse. Scattered standing dead birch, aspen. Low ground.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	50	Pole/Log	9	90
Hemlock	43	Log/Pole	12									
Sub-Canopy Species	Density	Avg. Height	Size									
Balsam Fir	Low	Variable	Sapling									
Hemlock	Medium	>20 feet	Pole									
126	4130 - Aspen	Poletimber Poor	8.9	40		N/A	Sparse, poor quality stand. Stand was trenched and underplanted with white pine, white spruce, and red pine in 2011.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	75	Pole/Sapling	6	40
								Bigtooth Aspen	12	Pole/Sapling	7	
								White Pine	10	Pole/Sap/Log	7	
Sub-Canopy Species	Density	Avg. Height	Size									
Quaking Aspen	Low	5 - 10 feet	Sapling									
White Pine	Medium	Variable	Sapling									
Black Cherry	Low	5 - 10 feet	Sapling									
Conifers	Low	< 5 feet	Seeding									
White Oak	Low	5 - 10 feet	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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127	42210 - Natural Red Pine	Sawtimber Well	19.2	91	141-170	N/A	Some variability in ages of red pine; diameters to 22-plus inches. 2009 SI trees: 54 yrs., 11", 61 ft.; 73 yrs., 14", 71 ft. 2019 BAs: 110, 220, 150, 160, 160, 160; mean 161.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	6	XLog/Log	18		White Pine	Low	Variable	Sapling
Bigtooth Aspen	12	Log/Pole	10		Beech	Low	5 - 10 feet	Sapling
White Pine	15	Log/Pole	12		White Pine	Low	>20 feet	Pole
Red Pine	62	Log/Pole/XLog	12	91				

128	42200 - Natural White Pine	Poletimber Medium	3.1	68	81-110	N/A	Trees appear to be considerably older/larger on the steep bluff down to creek.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	6	Pole/Log	9		White Pine	Medium	Variable	Sapling
White Pine	90	Pole/Log/XLog	8	68	White Pine	Low	>20 feet	Pole
					Deciduous Saplings	Low	Variable	Sapling

129	6220 - Alder/willow	Nonstocked	2.5			No	TW 2/28/09- Swaintson Creek and floodplain. Some open patches among shrubs.
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Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	Tall Shrub
White Pine	Low	>20 feet	Log
Conifers	Low	Variable	Sapling
Balsam Fir	Low	>20 feet	Pole
Northern White Cedar	Trace	>20 feet	Sapling
Paper Birch	Trace	>20 feet	Pole
Hemlock	Trace	>20 feet	Pole

SG 4/9/09- Some snags, old beaver sign, gorgeous

130	4311 - Pine, Aspen Mix	Sawtimber Medium	4.8	49	81-110	N/A	2- storied stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log/XLog	16		White Pine	Low	Variable	Sapling
Quaking Aspen	10	Pole	7		Black Cherry	Low	Variable	Sapling
Bigtooth Aspen	35	Pole	7	49	White Oak	Low	5 - 10 feet	Sapling
White Pine	15	Pole/Log	9					
Red Pine	30	Log/Pole	12	66				

131	310 - Herbaceous Openland	Nonstocked	5.3			No	Pipeline R.O.W. One low, wet area where stream crosses.
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Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low		Sapling
Paper Birch	Trace		Pole
Quaking Aspen	Trace		Sapling
Tag Alder	Trace		Tall Shrub
White Pine	Low	Unspecified	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
132	4133 - Aspen, Mixed Pine	Sapling Medium	19.2	7	1-50	N/A	Clearcut in summer 2012. Stand is split by a pipeline R.O.W. Some patches of fruiting shrubs: viburnum, dogwood, cherry. Should be good grouse cover as aspen re-grows. Stand includes 4 small retention islands with mature aspen, oak, and pine, plus scattered residual oaks, pole/sapling red pine, and a few very large white pine.																																					
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Mixed Fruiting Shrubs	Low	Unspecified	Non-Wood																																									
133	4130 - Aspen	Poletimber Well	21.5	27	Immature	N/A	Stand includes a couple of small patches of mature aspen along the south edge. 2009 comments: Some areas of thick cherry with no aspen. Maple and cherry are mostly stump sprouts. There are scattered remnant pole sized hardwoods: white oak, beech, maple.																																					
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134	31021 - Cool Season Grass	Nonstocked	2.5			No	Old well pad. Hard to tell with snow cover, but stand appears to be rutted throughout from ORVs. SG 5/19/09- Pit Blind, 2 trk with mud holes. SN sj/sp encroachment in NE and SW subsidence pits. CSG, SJW, S. Sorrel, Rubus, clump of switch, mullein, wintercross, LBS, IW, AO (1/2 doz), RP, Yarrow, SKW, switch, strawberry, hawkweed, pussy toes, golden rod																																					
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136	4130 - Aspen	Poletimber Well	16.8	55	111-140	N/A	Scattered mature oak and pine.																																					
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137	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	12.8	87	111-140	N/A	A few oak, hemlock, birch and red maple. 2019 BAs: 140, 150, 150, 100; mean 135.																																					
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138	4110 - Sugar Maple Association	Sawtimber Well	32.9	92	111-140	N/A	Scattered black cherry. 2019 BAs: 130, 120, 140, 140; mean 132. Much of the stand is on a moderately steep north facing slope. Lower BA, more regen holes, and thicker beech saplings at the bottom of the slope. Regeneration resulting from last cut is mostly beech and ironwood.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
139	3301 - Low Density Deciduous Trees	Nonstocked	7.3	Immature		No	County road and a 2-track cross through the stand. Some ironwood, aspen, and paper birch.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Deciduous Saplings	Trace	Variable	Sapling
								White Pine	Trace	>20 feet	Log
								Black Cherry	Trace	>20 feet	Pole
								Red Maple	Trace	>20 feet	Log
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								Sugar Maple	Low	>20 feet	Pole
White Pine	Low	>20 feet	Pole								
140	3303 - Mixed Low Density Trees	Nonstocked	1.9			No	2009 comments: Natural opening in a frost pocket. Bracken, poverty grass, cladonia, white pine, black cherry, quaking aspen, sedge, SJW, sheep sorrel, hawkweed, LBS.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Aspen (spp.)	Low	Variable	Sapling
								White Pine	Low	>20 feet	Log
								Black Cherry	Low	>20 feet	Log
White Pine	Trace	Variable	Sapling								
141	622 - Lowland Shrub	Nonstocked	3.6			No	Stand has a high water table and may be flooded during wet periods or completely dry at times.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Dogwood (spp.)	Low		Tall Shrub
								Meadowsweet	Trace		Tall Shrub
								Willow spp.	Low		Tall Shrub
								Quaking Aspen	Low	10 - 20 feet	Sapling
								White Pine	Low	Variable	Sapling
								Tag Alder	Low	5 - 10 feet	Tall Shrub
								Balsam Poplar	Trace	Variable	Sapling
								Deciduous Shrubs	Low	5 - 10 feet	Tall Shrub
142	31022 - Warm Season Grass	Nonstocked	12.8			Managed Opening	Gas pipeline rights-of-way and dirt roads. Wormwood, sheep sorrel, spotted knapweed, willow shrubs. Brome spp, LBS, Switch, bracken.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Black Cherry	Trace	Unspecified	Sapling
								Bigtooth Aspen	Trace	Unspecified	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
143	3103 - Rubus-Fern	Nonstocked	1.8			No	2009 comments: Photo # 1194. Willow shrub, hawkweed, sjw, sedge, white pine seedlings, sheep sorrel. Poverty grass, bracken, red oak, black cherry, quaking aspen.																																																	
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144	4130 - Aspen	Poletimber Medium	103.2	48		N/A	Stand is somewhat variable in growth, quality of aspen, but generally below average. Part of original stand was cut in 2012 to diversify local age classes. Strong successional push to white pine.																																																	
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145	3104 - Degraded	Nonstocked	2.0			No	2009 comments: CSG, SJW, SKW, bracken, quaking aspen, mullein.																																																	
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146	4130 - Aspen	Poletimber Well	54.1	48		N/A																																																		
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147	4130 - Aspen	Sawtimber Well	9.8	60	Unspecified	N/A	2009 comments: Some phellinus on aspen. Stand is a narrow band of upland adjacent to the Jaxon Creek valley. Variable size, composition of trees. East of road: patch of mature timber surrounding a small wetland. Leave for habitat diversity.																																																	
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148	42200 - Natural White Pine	Sawtimber Well	31.3	92	81-110	N/A	Red pine is concentrated at the north end of the stand. Scattered white oak and cherry. 2019 BAs: 210, 190, 140, 140; mean 170.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
149	6220 - Alder/willow	Nonstocked	3.7		Immature	No	Jaxon Creek runs through the stand. Appears to be an area clearcut by a previous owner that did not regenerate. Some fir is creeping in. 2019: stand viewed from edge; data mostly unchanged from 2009 field survey.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Paper Birch	Trace		Pole	
								Red Maple	Trace		Pole	
								Tag Alder	Full		Tall Shrub	
Balsam Fir	Low	Unspecified	Sapling									
150	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	36.5	118	171-200	N/A	2009 comment: A little deer sign, but no browse to speak of.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	10	Log	14	
								Northern White Cedar	40	Pole/Log	8	118
								Hemlock	35	Log/Pole	10	
Sub-Canopy Species	Density	Avg. Height	Size									
Northern White Cedar	Medium	>20 feet	Pole									
Hemlock	Medium	>20 feet	Pole									
Conifers	Low	Variable	Sapling									
151	4110 - Sugar Maple Association	Sawtimber Well	14.8	94	111-140	N/A	2009 comments: Dense seedlings and saplings in regen holes, predominantly cherry, ironwood, and beech.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	53	Log/Pole	11	94
								Red Maple	15	Log	14	
								Basswood	30	Log/Pole	13	
Sub-Canopy Species	Density	Avg. Height	Size									
Beech	High	Variable	Sapling									
Black Cherry	Low	10 - 20 feet	Sapling									
Ironwood	High	Variable	Sapling									
152	4130 - Aspen	Sapling Well	10.7	18	Immature	N/A						
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	90	Sapling	3	18
								Sub-Canopy Species	Density	Avg. Height	Size	
Ironwood	Low	Variable	Sapling									
Black Cherry	Low	5 - 10 feet	Sapling									
153	3105 - Mixed Upland Herbaceous	Nonstocked	1.7			Managed Opening	2009 comments: Old well pad. Photo # 2012-13. One of the original rye field well sites planted by GT Whitetails.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Deciduous Saplings	Trace	5 - 10 feet	Sapling	
154	4130 - Aspen	Poletimber Well	2.9	38		N/A	Stand is on a steep hill.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	80	Pole	7	38
								Basswood	10	Pole	7	38
Sub-Canopy Species	Density	Avg. Height	Size									
Ironwood	Full	Variable	Sapling									
155	3103 - Rubus-Fern	Nonstocked	2.4			No	TW 2/6/09- A few scattered trees, otherwise open. One old apple tree and lilac bush. SG 5/19/09- Borders put on NE adjacent to Mayfield Trl. Prvt Driveway Old Foundation					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Aspen (spp.)	Low	Variable	Sapling	
								White Pine	Trace	>20 feet	Log	
								Red Maple	Trace	>20 feet	Log	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
156	4130 - Aspen	Poletimber Well	96.2	39		N/A	Well stocked stand.																																									
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158	3105 - Mixed Upland Herbaceous	Nonstocked	2.4			Managed Opening	TW 2/26/09- Former well pad, then rye field. Some knapweed showing above the snow. SG 4/9/09- Clay targets																																									
159	42200 - Natural White Pine	Poletimber Poor	3.7	23	1-50	N/A	Photo # 1199-1200. sedge, bracken, csg, balsam fir, tamarack, hemlock, big tooth, white pine, black cherry, wintergreen, honeysuckle, roughleafed ricegrass, hawkweed. 2019: filling in with white pine. Trace amounts of cherry, aspen, birch, hemlock.																																									
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160	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	14.2	104		N/A	Small amount of q. aspen present.																																									
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161	4130 - Aspen	Poletimber Well	11.3	39	Unspecified	N/A	Relatively low-lying, much of stand may have a high water table and may be seasonally wet some years.																																									
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162	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	1.5	60	81-110	N/A																																										
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163	122 - Road/Parking Lot	Nonstocked	4.6			No	Mayfield Trail																																									



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164	4130 - Aspen	Poletimber Well	13.0	39		N/A	Small amounts of birch in canopy.																																												
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165	629 - Mixed non-forested wetland	Nonstocked	18.1			No	Lots of standing dead timber. Photo # 1198, 1210. Old beaver flooding.																																												
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166	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Poor	11.9	47	1-50	N/A	Stand included a vernal pond. Stand was cut for habitat/age class diversity in April 2012, retaining many conifers and hardwoods as residuals over regenerating aspen, cherry, and multi-aged white pine. Stand includes some patches of planted red pine, scattered birch, beech and elm, and some fir & hemlock saplings.																																												
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168	4110 - Sugar Maple Association	Sawtimber Well	38.4	106	111-140	N/A	2009 comments: Numerous regeneration holes from previous harvest, mostly filling in with ironwood, but there are some other hardwood seedlings and saplings in some gaps, especially white ash, also beech and sugar maple. Occasional overstory beech. 2019 BAs: 80, 150, 120, 150, 100, 190; mean 132. Scattered mature beech, cherry, and red maple.																																												
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169	4130 - Aspen	Poletimber Well	7.4	34		N/A	Scattered balsam fir.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
170	3102 - Grass	Nonstocked	1.4			No	2019 comments: fair amount of little bluestem showing above the snow. SG 5/19/09- 2 trk access, old well site. SKW mainly to SW. LBS to NE. Poor ground cover					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Autumn Olive	Trace	5 - 10 feet	Tall Shrub	
								Deciduous Saplings	Trace	Variable	Seeding	
								Little Bluestem	Medium	Unspecified	Non-Wood	
White Pine	Trace	Variable	Sapling									
171	6121 - Tamarack	Sawtimber Poor	1.8	87		N/A						
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern White Cedar	15	Pole/Log	8	
								Tamarack	72	Pole/Log	9	87
								Sub-Canopy Species	Density	Avg. Height	Size	
Northern White Cedar	Medium	>20 feet	Pole									
Tag Alder	Medium	5 - 10 feet	Tall Shrub									
Conifers	Low	Variable	Sapling									
172	3303 - Mixed Low Density Trees	Nonstocked	7.0			No	Scattered WP, BC, O. Much of this opening is a powerline ROW.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Low	>20 feet	Log	
								White Pine	Low	>20 feet	Pole	
								White Pine	Low	Variable	Sapling	
								Black Cherry	Low	>20 feet	Pole	
								White Oak	Trace	>20 feet	Pole	
								Red Maple	Trace	>20 feet	Log	
								Serviceberry (Juneberry)	Trace	5 - 10 feet	Tall Shrub	
								Red Oak	Trace	>20 feet	Log	
								Jack Pine	Trace	10 - 20 feet	Pole	
								Deciduous Saplings	Low	Variable	Sapling	
								173	4311 - Pine, Aspen Mix	Sawtimber Medium	14.2	61
Canopy Species	% Cover	Size Class	DBH	Age								
Quaking Aspen	15	Pole/Log	9									
Bigtooth Aspen	35	Log/Pole	10	61								
Balsam Fir	7	Pole	7									
White Pine	35	Log/Pole	12									
Sub-Canopy Species	Density	Avg. Height	Size									
Balsam Fir	High	Variable	Sapling									
White Pine	Medium	Variable	Sapling									
Black Cherry	Low	Variable	Sapling									
174	4112 - Maple, Beech, Cherry Association	Poletimber Medium	4.5	73	51-80	N/A	Sparse, low quality. Numerous multi-stemmed trees. Maple saplings thick in places.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	30	Pole/Log/Sap	8	
								Red Maple	20	Pole/Log	8	
								White Pine	10	Log	14	
								Black Cherry	30	Log/Pole	10	73
								Sub-Canopy Species	Density	Avg. Height	Size	
White Pine	High	Variable	Sapling									
Ironwood	Low	Variable	Sapling									
Sugar Maple	Low	Variable	Sapling									
Red Maple	Low	Variable	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
175	6220 - Alder/willow	Nonstocked	3.0			No	Pothole at northwest end; snags around edges. Not visited in 2019 inventory; data rolled forward from 2009.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Balsam Fir	Low		Sapling	
								Balsam Fir	Trace		Pole	
								Tag Alder	High		Tall Shrub	
Paper Birch	Low		Sapling									
176	4110 - Sugar Maple Association	Sawtimber Medium	59.0	97	81-110	N/A	Stand thinned in summer 2012. Dense seedlings and saplings in regen holes from prior thinning, predominantly cherry, ironwood, and beech. 2019 BAs: 90, 80, 100, 80 mean 87.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	65	Log/Pole	11	97
								Basswood	25	Log/Pole	12	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low	Variable	Sapling	
								Beech	High	Variable	Sapling	
								White Pine	Low	Variable	Sapling	
								Black Cherry	Low	Variable	Sapling	
								Ironwood	High	10 - 20 feet	Sapling	
Deciduous Saplings	Medium	< 5 feet	Seeding									
White Ash	Trace	5 - 10 feet	Sapling									
177	6130 - Fir, Aspen, Maple	Poletimber Poor	11.4	65	81-110	N/A	Some small rises, but mostly lowland. Springs present. Some super-canopy white pine. Not visited in 2019 inventory; data rolled forward from 2009.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	22	Log/Pole	10	
								Quaking Aspen	25	Pole/Log	8	
								Balsam Fir	35	Pole/Log	8	65
Sub-Canopy Species	Density	Avg. Height	Size									
Balsam Fir	High	Variable	Sapling									
Tag Alder	Medium	5 - 10 feet	Tall Shrub									
178	4130 - Aspen	Sapling Well	14.0	8	Immature	N/A	Stand clearcut under contract #610410901. Completed early June 2011.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Cherry	10	Sapling/Pole	2	
								Red Maple	10	Sapling	1	
Quaking Aspen	65	Sapling	1	8								
179	4133 - Aspen, Mixed Pine	Sawtimber Well	1.7	71	81-110	N/A	This stand was deliberately left as a retention island when the surrounding stand was harvested in 2012.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	30	Log	12	
								Quaking Aspen	30	Log/Pole	12	71
								Bigtooth Aspen	15	Log/Pole	12	71
								White Pine	23	Log/Pole/XLog	12	
Sub-Canopy Species	Density	Avg. Height	Size									
White Pine	High	Variable	Sapling									
White Pine	Low	>20 feet	Pole									
Deciduous Saplings	Medium	Variable	Sapling									
180	4123 - Red Oak	Sapling Poor	9.7	6	Immature	N/A	Stand was clearcut in Feb. 2013 with scattered residual oak and white pine. Objective was aspen regeneration, but aspen was heavily browsed. However, stand is filling in well with oak and red maple sprouts and seedlings, plus white pine seedlings. Stand should become adequately stocked. Shore-to-Shore Trail and snowmobile trail abut the stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	50	Sapling	1	6
								White Oak	10	Sapling	1	
								Red Maple	25	Sapling	1	6
Sub-Canopy Species	Density	Avg. Height	Size									
Deciduous Saplings	Medium	< 5 feet	Seeding									
White Pine	Low	< 5 feet	Seeding									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
181	122 - Road/Parking Lot	Nonstocked	31.3			No	Railroad grade																									
182	4130 - Aspen	Sapling Well	45.3	7	Immature	N/A	Retained white pines are mostly in the part of the stand SW of the pipeline corridor. Cut in 2012. Stand includes 3 mixed-species retention islands of pole timber deliberately uncut in prior harvest, as well as scattered oaks and white pine.																									
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186	4136 - Aspen, Mixed Conifer	Sapling Medium	6.2	7	1-50	N/A	Inclusion of planted red pine in the west part of the stand. Individual marked trees were retained when parent stand was cut in 2012.																									
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