



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61049

Entry Year 2022

Acreage: 3,931

County Grand Traverse

Management Area: Boardman Plains

Revision Date: 2020-04-28

Stand Examiner: Patrick Cotant

Legal Description:

T26N - R11W - sections 9, 13-15, 21-28

Identified Planning Goals:

Maintain vegetative cover and encourage long lived species along the banks of the Boardman River and tributaries. Maintain and expand aspen cover types where possible while continuing to maintain a balanced age class distribution of aspen cover types. Oak should be managed as a minor species for mast production where it is present in aspen cover types.

Soil and topography:

Level to rolling with some steep slopes along the Boardman River Valley.

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

Residential development continues around the compartment. Several of the private parcels that are intermingled with state ownership have been recently subdivided for residential development. Minor trespass encroachments such as mowing or trimming, dumping of yard debris, underground pet containment systems, fire pits, are common along these shared property lines. Continued development is expected due to the close proximity of this compartment to Traverse City. The northeast part of the compartment, known locally as "Hoosier Valley," has been an area of historic ORV use and also has an area commonly used as a shooting range. Recent efforts to close the shooting range as well as reshape Hoosier Valley rd with ditches and elimination of washed out parking areas has proven to be effective at lessening the problems identified in past entry years associated with illegal dumping and ORV use. Work that is yet to be completed includes tree planting, additional road work in conjunction with Grand Traverse Co. Road Commission and lead level measurement and follow-up lead abatement. The Supply Rd shooting range is a State operated shooting range now located in Grand Traverse County which has taken a great deal of burden off the Hoosier Valley area with respect to target shooting.

Unique Natural Features:

The Weidenhamer Swamp occupies the southern third of the compartment and is the largest deer yarding area in Grand Traverse County. MNFI records indicate numerous occurrences of Red-shouldered Hawk in and around the compartment as well as wood turtle and golden-winged warbler. Occurrences of Osprey, Common Loon, and Hill's Thistle are recorded near, but outside of the compartment. MNFI indicates potential for Goshawk, Massasauga Rattle Snake, Blanding's Turtle, Eagle, Osprey, Great Blue Heron Rookery, Ram's Head Orchid, Calypso Orchid, Limestone Oak Fern, and Michigan Monkey Flower.

Archeological, Historical, and Cultural Features:

According to SHPO and the Archaeological database housed in the Citrix environment, two occurrences are identified in T26N11W; one in section 5, the other in section 9.

Special Management Designations or Considerations:

The Boardman River is a state designated natural river. This designation also applies to Beitner and Jaxon Creeks. These waters are also designated trout streams.

Watershed and Fisheries Considerations:

The Boardman River and its tributaries are all designated trout streams. Since these streams are of very high quality, their trout populations are supported by natural reproduction. They are not stocked. To keep them in good condition, it is critical that BMPs and Natural Rivers buffers are strictly adhered to. Natural Rivers buffers are as follows: tributaries, 50 ft; the Boardman River, 100 ft. Shade, limiting sediment input, and woody debris recruitment are crucial to trout streams. In Stand 45, Mason Creek is also a designated trout stream. Patch or strip clear cut in Stand 45 should be managed for species other than young aspen, in order to avoid problems with beavers. Beavers have the ability to severely degrade small trout streams. Restricting cutting to outside the appropriate buffers will help to maintain the temperatures and habitat required to maintain the health of these streams, and the watershed in general (Heather Seites, MDNRE Fish Division comments).

Wildlife Habitat Considerations:

Maintain mature conifer cover in the Weidenhamer swamp. Although some small patch cuts or habitat cuts may be appropriate to replicate naturally occurring blowdowns, none are prescribed this period. Stands on the outwash plains should continue to be managed for a variety of successional stages and habitat conditions, including everything from open grass/brush habitat to late successional forest. Some open areas should be converted to native warm season grass mixes to replace bracken fern monocultures. Early successional forest patches created through timber harvest should incorporate snags, scattered and clumped residual live trees, and down logs to more closely represent within-stand habitat structure left in the wake of wildfires. Tops should be left unchipped and scattered around the sale area. Maintaining or regenerating oak as a component of these forest stands is very important to local wildlife habitat diversity. The best location for late successional forest would be northeast of the conifer swamp, where there is some natural fire protection. Not coincidentally, active red-shouldered hawk nests have been located in upland deciduous stand just north of the swamp. These stands should be managed per the Department guidelines for this threatened raptor. As much as possible, tree species diversity and habitat structure should be incorporated into pine plantations. Incorporating small (2-5 acre) islands that are left relatively un-thinned within mature pine stands would provide winter roosting cover for turkeys. This entire compartment is particularly popular among local residents as an accessible hunting area.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift are the Mississippian Coldwater and Devonian Ellsworth Shale. There is no current economic use for the Coldwater or Ellsworth Shales. The nearest gravel pits are within one mile to the north and south. Gravel potential in the compartment is considered good. This area is located in the Silurian Niagaran reef trend. Some of the State land is currently leased for oil and gas development and there may be additional reef potential. Portions of the Compartment have also been nominated for underground gas storage and the May 2010 oil & gas lease auction. The Antrim Shale has not been developed in this area, but may have some future potential.

Vehicle Access:

Vehicle access to majority of compartment is good. On the north, River road provides access to a number of stands with county and seasonal roads leading to stands. Blair Townhall rd and Hoosier Valley rd traverse the center of the compartment with numerous seasonal county and state managed forest roads providing more access. Both Blair Townhall and Hoosier Valley are seasonal when they reach halfway across the compartment. On the southern edge of the compartment, Mill rd provides direct access to a number of the e-type stands in the southern tier of the compartment. Mill rd also becomes seasonal as it goes east.

Survey Needs:

Recreational Facilities and Opportunities:

There is a Parks & Recreation Division maintained access site on the Boardman River in section 13. The Michigan Riding/Hiking Trail and Boardman Valley Snowmobile run through the compartment. In addition, the newly developed Boardman River Trail bisects the compartment, generally paralleling the Hoosier Valley Rd and Blair Townhall road corridors.

Fire Protection:

Local fire protection is provided by Blair Twp. Fire Dept. DNRE fire protection is provided by the Traverse City Field Office. Access to most of this compartment is acceptable; travel time is not a problem. Urban Interface issues are possible with cabins, seasonal residences along sections of the river, and private residences scattered throughout this compartment. There is a fairly large swamp component in the south part of the compartment which would make fires difficult to extinguish at times, but no fire occurrence has taken place in recent years.

Additional Compartment Information:

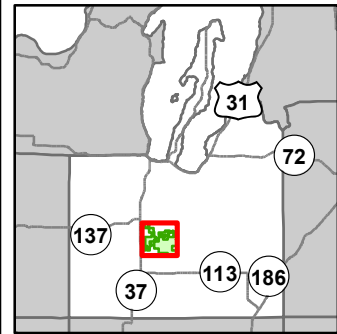
The following reports from the Inventory are attached:

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

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

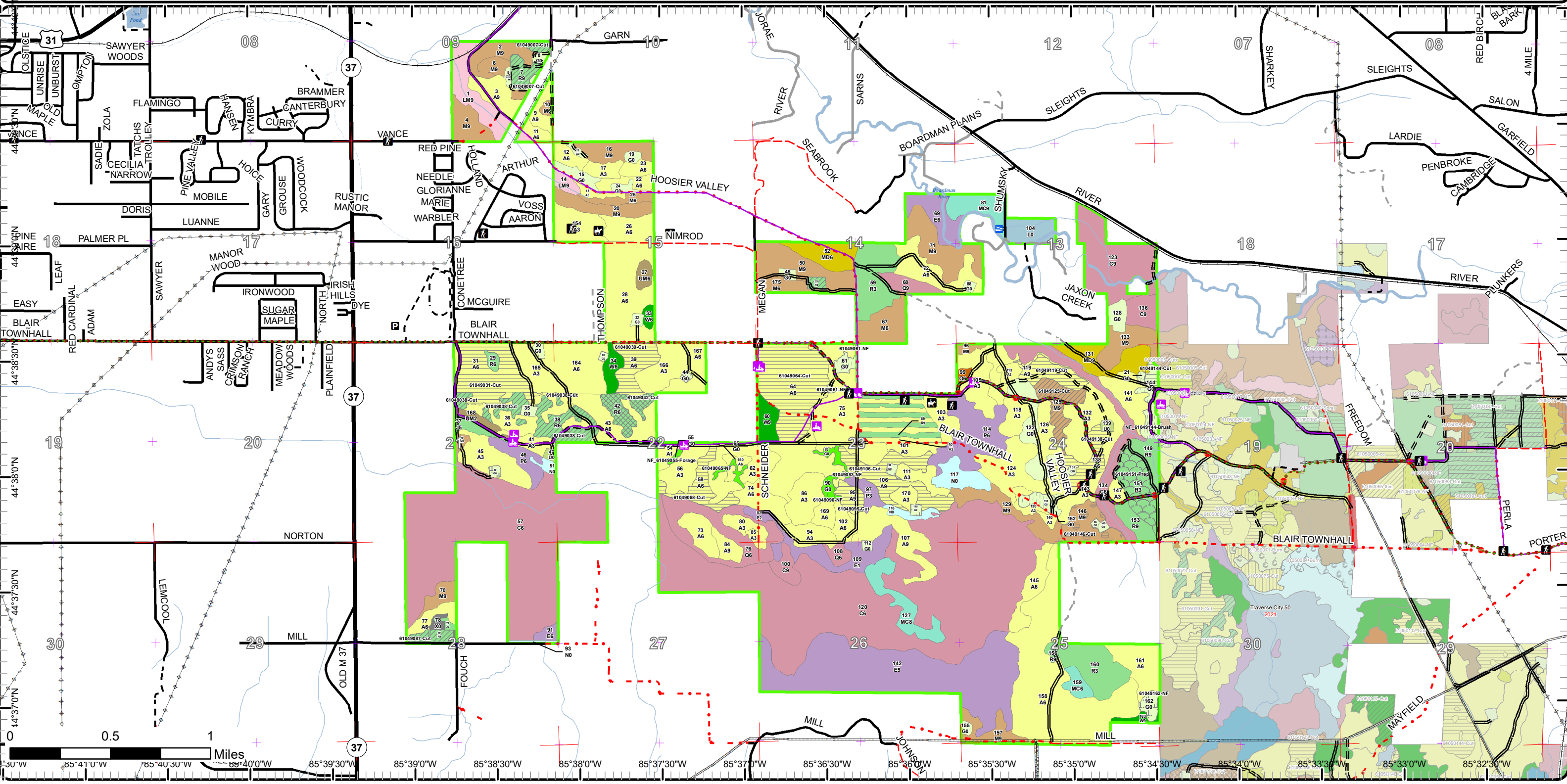
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



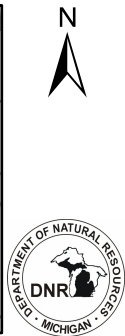
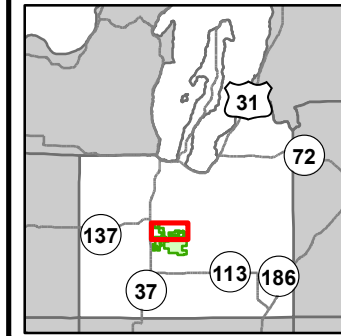
Compartment: 49
 T26N, R11W, Sec. 9, 13-15, 21-28
 County: Grand Traverse
 Unit: Traverse City
 Mgmt Area: Boardman Plains
 YOE: 2022
 Acres: 3,930.8 GIS Calculated
 Examiner: Patrick Cotant
 Map Revised: 1/7/2021
 Map Phase: Post-Review

- Miris Corners
- Re monumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Hiking Trails
- Horse Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Snowmobile Trails
- Berms
- Boating Access Site
- Bridges
- Culvert
- Parking Lot
- Sign
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Patch/Strip Cut (Femelschlag)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- Site Prep
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
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- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub
- 623 - Emergent Wetland

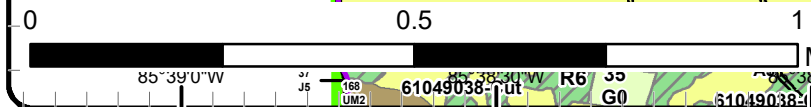
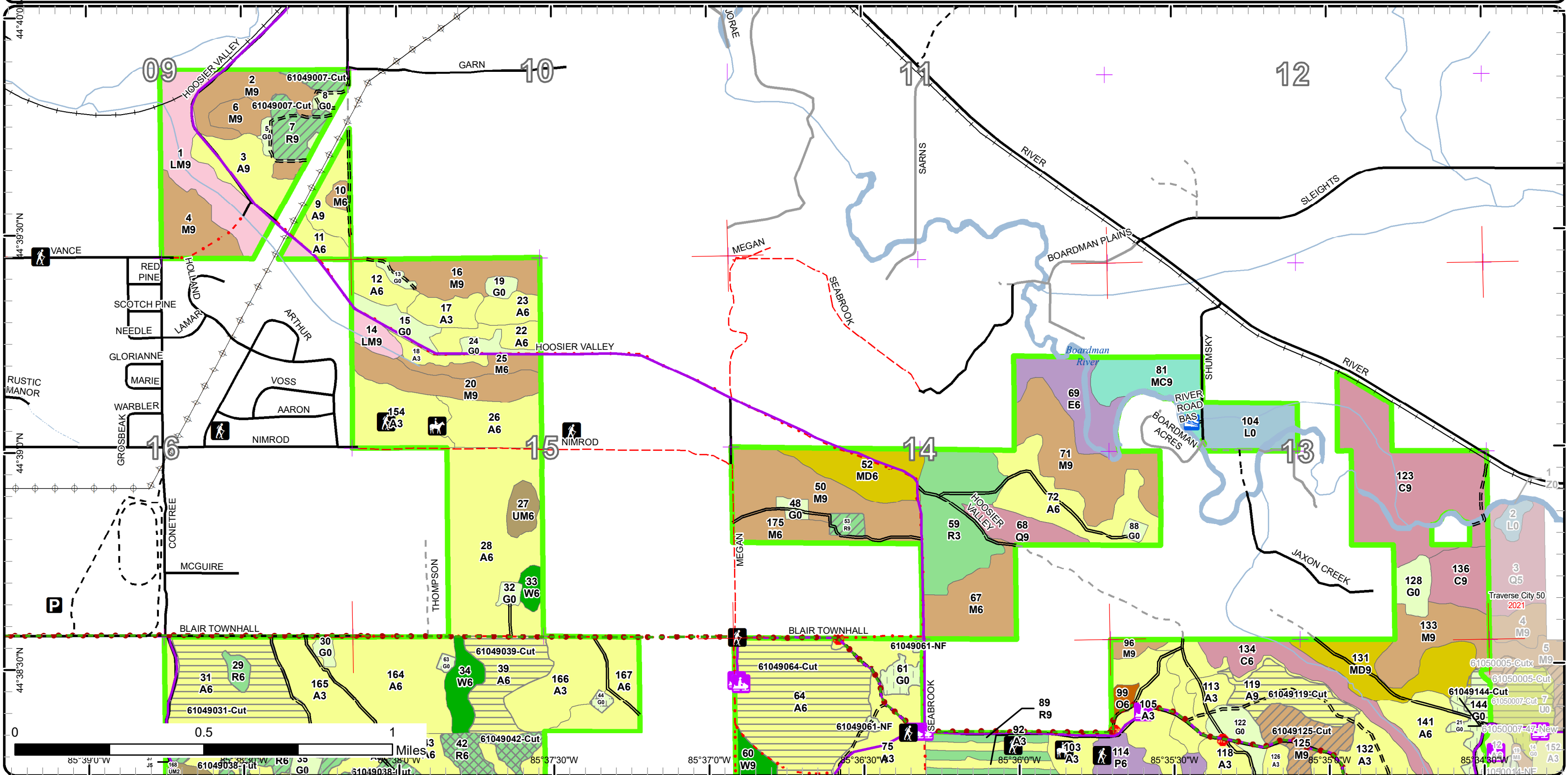


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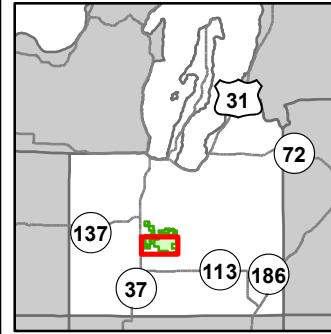


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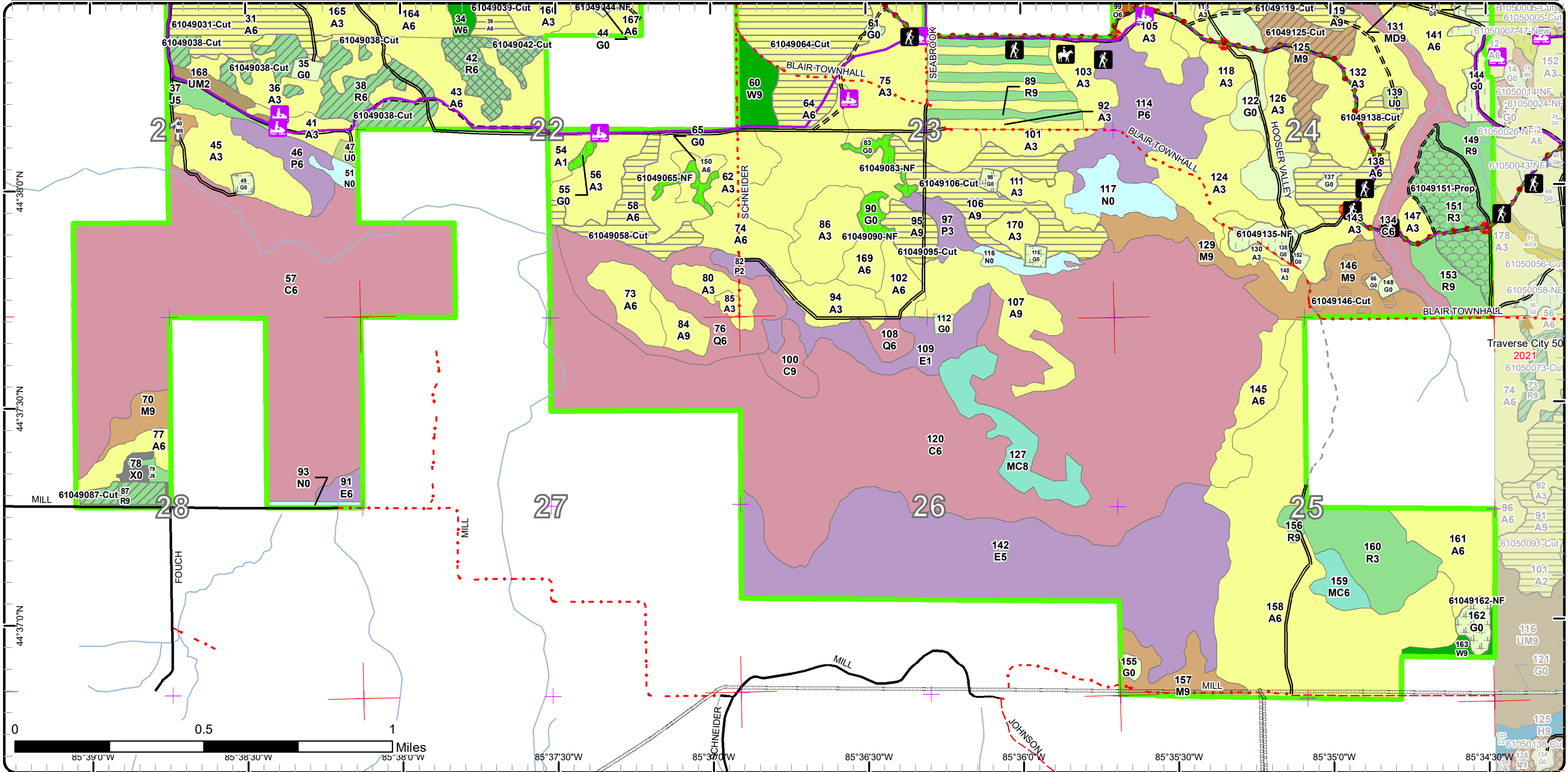


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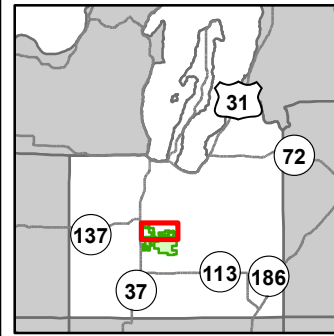


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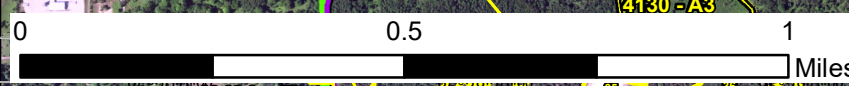
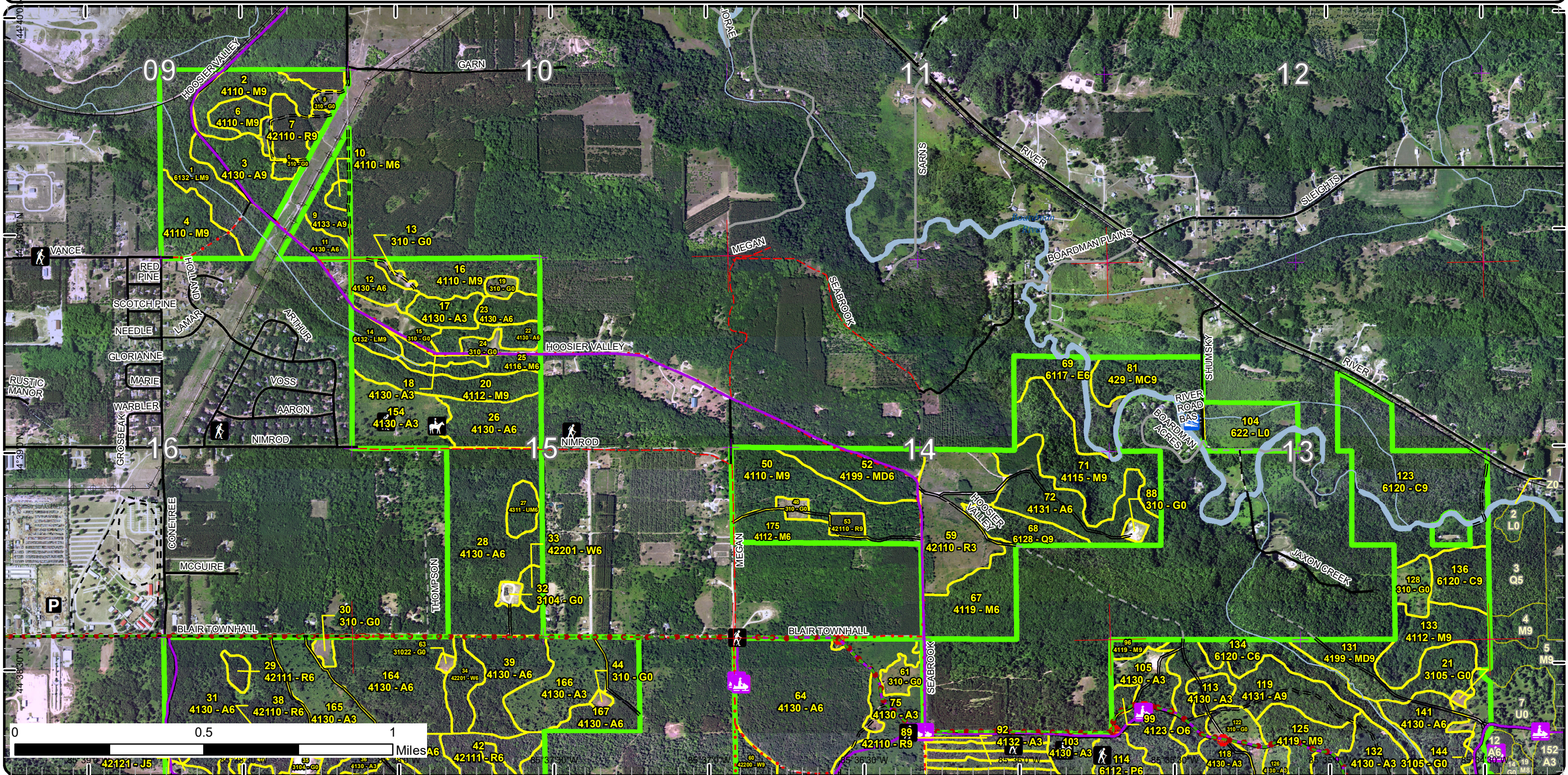


Stand Boundary Map

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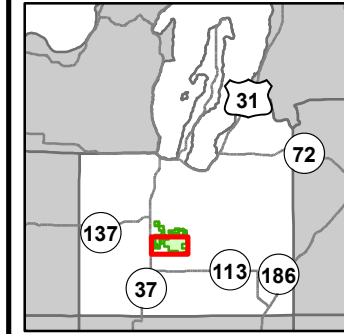


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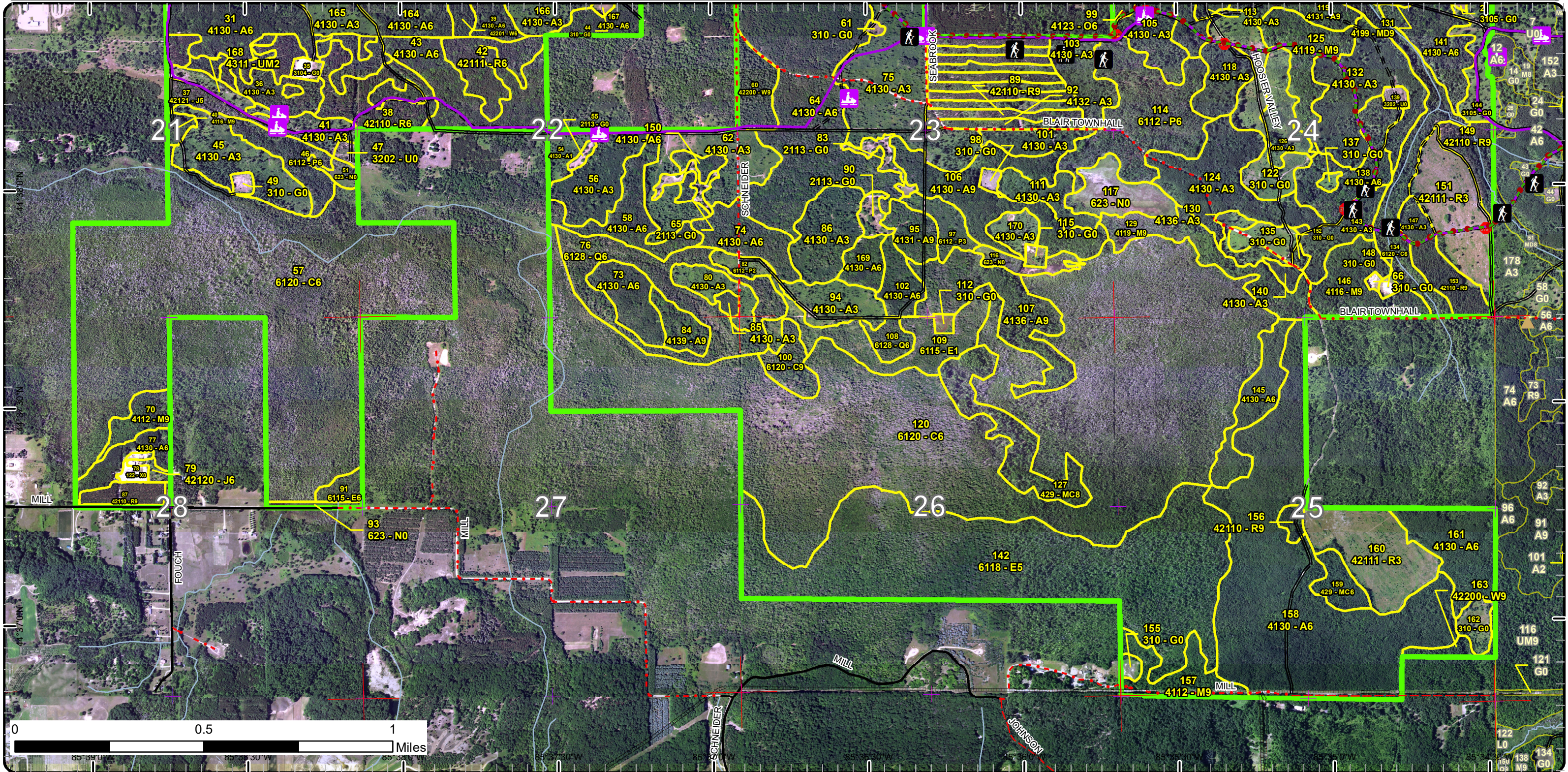


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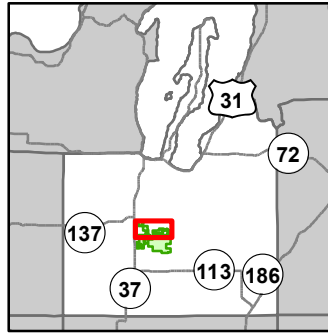


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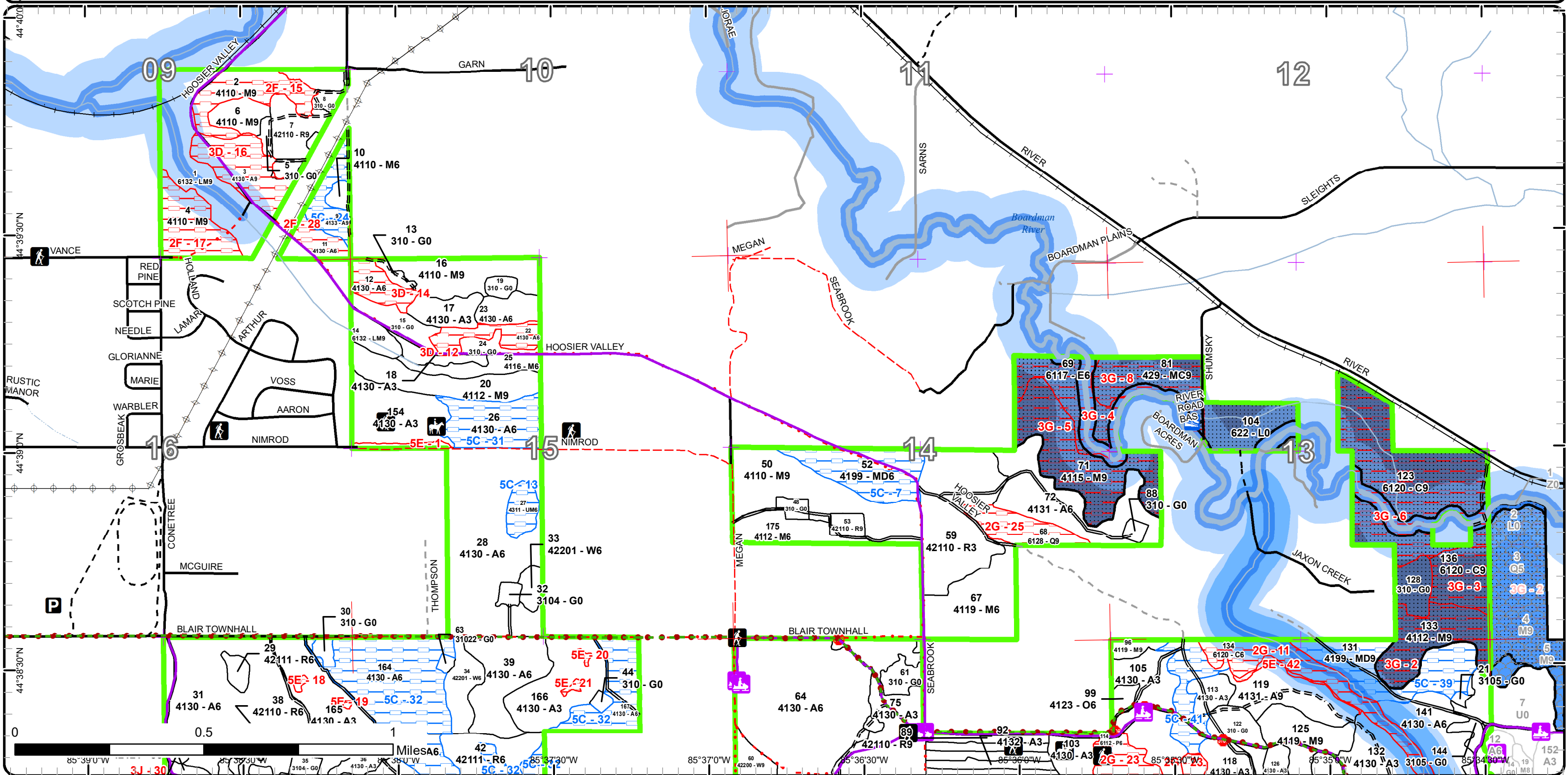


Special Conservation Areas

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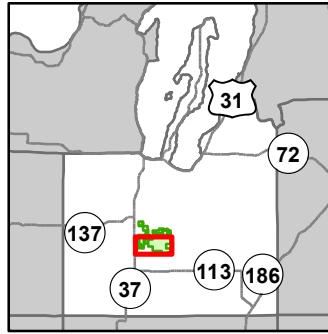


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 3G: Other Influence zones - See comments
- 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

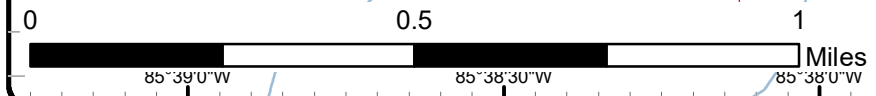
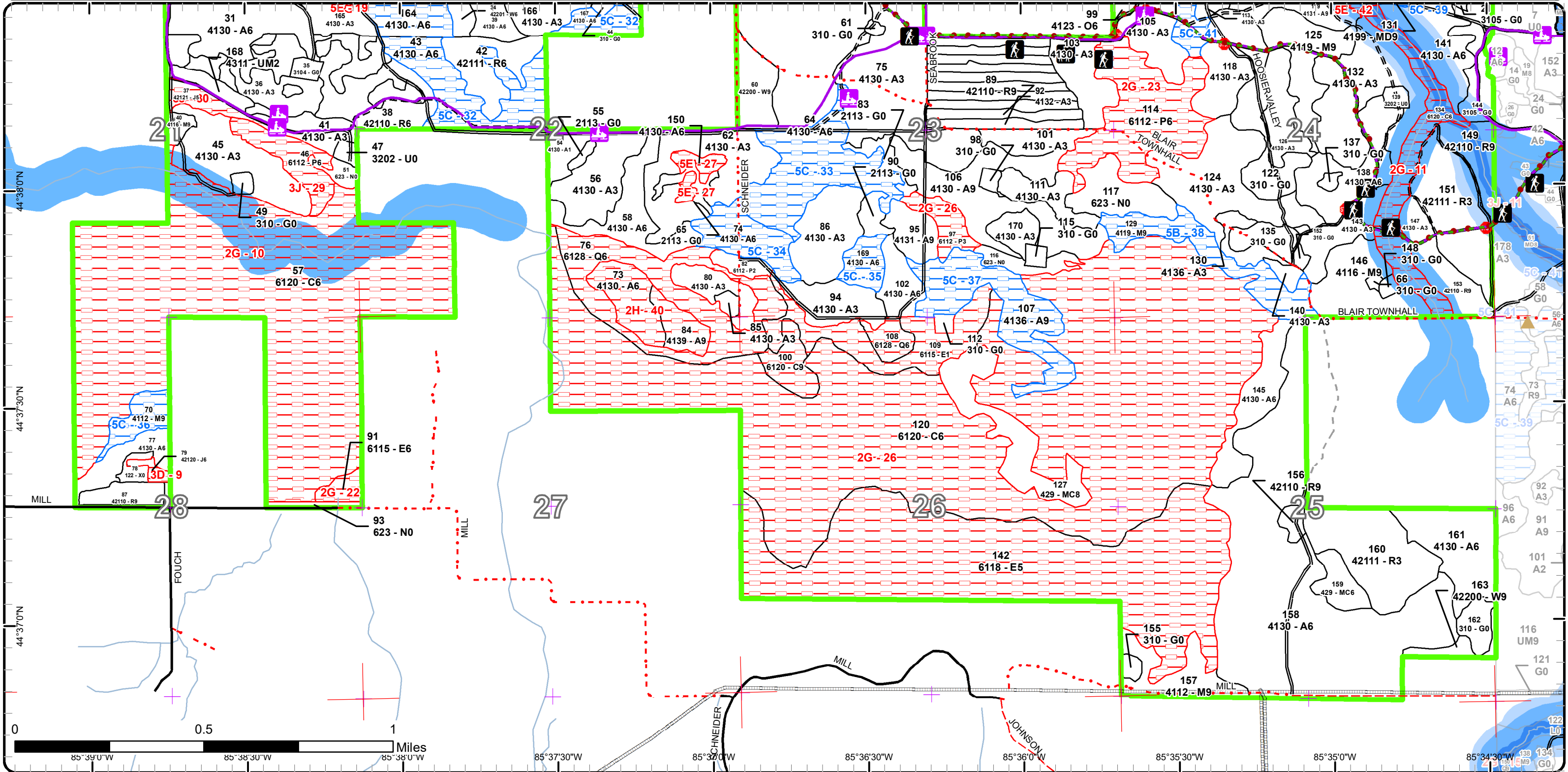


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- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA Removal
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Riparian Area



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	167	350	89	253	91	228	353	17	0	0	0	0	0	0	0	0	16	1563
Cedar	0	0	0	0	0	0	0	0	0	787	11	72	65	0	0	0	0	0	935
Cropland	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Herbaceous Openland	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124
Jack Pine	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	10
Lowland Aspen/Balsam Poplar	0	5	9	0	0	0	0	68	0	0	0	0	0	0	0	0	0	0	82
Lowland Conifers	0	0	0	0	0	0	0	0	0	54	0	12	0	0	0	0	0	0	66
Lowland Deciduous	0	0	0	0	0	32	5	25	0	200	0	0	0	0	0	0	0	0	262
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	43
Lowland Shrub	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Marsh	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Mixed Upland Deciduous	0	0	0	0	0	0	0	23	0	0	29	0	0	0	0	0	0	0	52
Northern Hardwood	0	0	0	0	0	28	0	12	103	100	62	21	24	0	0	0	0	0	350
Oak	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Red Pine	0	113	0	0	0	0	19	126	0	0	0	0	0	0	0	0	0	0	258
Upland Conifers	0	0	0	0	0	9	0	24	0	0	28	0	0	0	0	0	0	0	61
Upland Mixed Forest	0	7	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	13
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	0	0	0	0	14	5	14	0	0	0	0	0	0	0	33
Total	199	292	359	89	253	160	252	644	140	1146	144	148	89	0	0	0	0	16	3930



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 49
Total Compartment Acres: 3,931

Commercial Harvest - 416
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	280	0	0	0	0	0	0	0	0	280
Herbaceous Openland	5	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	0	25	0	0	23	0	0	0	48
Red Pine	0	18	0	0	0	65	0	0	0	84
Total	284	18	25	0	0	88	0	0	0	416

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	416	33	0	0	0	0	0	0	79	528
Next Step	0	0	0	5	5	5	356	0	8	378
Total	416	33	0	5	5	5	356	0	87	906



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

122	61049122-NF	26.2	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	31022 - Warm Season Grass		No
<p><u>Prescription</u> Remove exotics as needed by herbiciding, or other methods. Seed in annual crop for soil building for several years then convert to appropriate native mix for site location and seasonal (i.e. summer vs. winter forage) wildlife uses. May want/need to work around existing beneficial vegetation (i.e. blackberry).</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> Maintain as needed with mowing, burning, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, or removal of woody encroachment.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

Approved Treatments:

7	61049007-Cut	15.7	42110 - Planted Red Pine	Sawtimber Well	59	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand removing approximately 1/3 of overall volume, focusing removal on stems with defect, forked tops, etc, while also removing some good quality stems to move stand to a more appropriate stocking level.</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 /2021</p>											

31	61049031-Cut	54.3	4130 - Aspen	Poletimber Well	52	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, removing majority of overstory while retaining a few scattered islands concentrated in northern portion of stand and also along western edge of stand where snowmobile trail heads south. Consider excluding this small sliver of stand from treatment to provide for aesthetics and retention acreage. Retain scattered oaks for mast source where appropriate.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, oak species, white pine, red maple and scattered balsam fir.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
38 61049038-Cut	38.8	42110 - Planted Red Pine	Poletimber Well	65	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin red pine focusing removal on forked, suppressed or otherwise poorly formed individuals while also removing good quality stems where appropriate to achieve better overall stocking within stand. It is expected that some portions of stand will see significant aspen regeneration once stand is opened up - in areas where aspen is a higher % of canopy, thin and/or remove red pine canopy if these pockets lie near the edge of the red pine stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
39 61049039-Cut	24.6	4130 - Aspen	Poletimber Well	52		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, retain 2-3 small islands in northern portion of stand to provide for retention and aesthetic relief near Blair Townhall Rd.</p> <p><u>Specs:</u> In addition, retain some individual oak and white pine scattered throughout stand to serve as mast/seed source and to provide vertical structure.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, red maple, oak species, white pine and other species currently present in lower numbers are anticipated.</p> <p><u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
42 61049042-Cut	18.3	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	65	171-200	Harvest	Group Selection	4133 - Aspen, Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Remove all species and majority of red pine, specifically where aspen stems are present in greater numbers to ensure that adequate aspen regenerates. In areas where red pine is more uniformly stocked, leave small islands/pockets of red pine, mainly for aesthetics, but also to provide some vertical structure in stand area.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, red maple, oak species, red pine and other species currently represented in stand area.</p> <p><u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
44 61049044-NF	1.4	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.</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 /2021</p>										
49 61049049-NF	1.9	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.</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 /2021</p>										
53 61049053-Cut	3.5	42110 - Planted Red Pine	Sawtimber Well	60	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand focusing removal on trees with defect, forked tops, etc, while also removing good quality stems to improve overall stocking levels.</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 /2021</p>										
58 61049058-Cut	22.6	4130 - Aspen	Poletimber Well	66		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, retaining some white pine and red oak throughout sale area. Retention should generally be minimal so as to maximize aspen stems/acre in this relatively narrow stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, red maple, white pine and red 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 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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61	61049061-NF	6.6	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous	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. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Work around some of the existing beneficial vegetation to establish a seed mix of native grasses and forbs suited to site and soil conditions. Maintain as needed with mowing, seeding of native grasses and forbs, burning, or removal of woody encroachment.

Next Step NonForestMgt, Other - Specify
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

63	61049063-NF	1.1	31022 - Warm Season Grass	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	31022 - Warm Season Grass	No
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Prescription Maintain as needed with mowing, seeding of native grasses/forbs, native shrub planting, burning, or removal of woody encroachment.

Next Step NonForestMgt, Other - Specify
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

64	61049064-Cut	82.3	4130 - Aspen	Poletimber Well	60	111-140	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Two-Aged	No
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Prescription Final harvest treatment area. Retain 3-4 groups of white pine in north and west portion of treatment area, 1-2 acres in size leaving ~10 BA of larger white pine. This will address some aesthetic concerns and also provide for some species diversity while maintaining a degree of vertical structure in a geographic area where aspen is being regenerated on a relatively large scale. Pipeline ROW along western edge is just off road and should be addressed during sale set up. Also, rec trails at north and south edge of stand should be protected.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: aspen, red maple, white pine and oak species.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
65 61049065-NF	3.9	2113 - Forage Crops	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> This opening is a traditional wildlife planting. Disk is crab/quack grass, plant to annual rye for several years and then convert back to a pasture mix (i.e. clover/alfalfa). Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> Or consider, disk, plant to annual rye for several years and then convert to appropriate native species mix. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
83 61049083-NF	4.8	2113 - Forage Crops	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> This opening is a traditional wildlife planting. Disk is crab/quack grass, plant to annual rye for several years and then convert back to a pasture mix (i.e. clover/alfalfa). Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> Or consider, disk, plant to annual rye for several years and then convert to appropriate native species mix. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
87 61049087-Cut	7.4	42110 - Planted Red Pine	Sawtimber Well	61	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand to more desirable stocking level, removing approximately 1/2 of overall volume. Steer stand in the direction of a more natural red pine stand with the management goal of aesthetics near DNR facility being the priority. Focus removal on forked, suppressed or otherwise poorly formed trees, removing some high quality individuals to reach appropriate stocking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
90 61049090-NF	4.5	2113 - Forage Crops	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> This opening is a traditional wildlife planting. Disk is crab/quack grass, plant to annual rye for several years and then convert back to a pasture mix (i.e. clover/alfalfa). Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Or consider, disk, plant to annual rye for several years and then convert to appropriate native species mix.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
95 61049095-Cut	10.5	4131 - Aspen, Oak	Sawtimber Well	65		Harvest	Clearcut with Retention	4131 - Aspen, Oak	Two-Aged	No
<p><u>Prescription</u> Final harvest all species, retaining scattered oak and white pine for mast/seed source. Because of small stand size, retention should be relatively minimal, with large white pine and large crowned oak being identified for retention. Understory conifers should be saved where possible.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, red maple, white pine, red oak and scattered balsam fir.</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 /2021</p>										
98 61049098-NF	1.9	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	320 - Upland Shrub		No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.</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 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
106 61049106-Cut	41.6	4130 - Aspen	Sawtimber Well	67		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Treat stand with a final harvest, removing majority of overstory with the exception of scattered white pine and oak species for aesthetic relief and also thermal cover and mast source purposes. Additionally, a couple small islands and acre or less could be placed in western portion of stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, white pine, oak species, balsam fir, red maple and scattered birch are acceptable and expected.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
115 61049115-NF	1.9	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	320 - Upland Shrub		No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.</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 /2021</p>										
119 61049119-Cut	19.7	4131 - Aspen, Oak	Sawtimber Well	69	Unspecified	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Two-Aged	No
<p><u>Prescription</u> Final harvest aspen, red maple and majority of red oak. Retain scattered red oak that appear to be healthy and vigorous for mast production and to account for aesthetics throughout stand, specifically near the shore to shore/boardman river trail that runs through the center of the stand. Within treatment area, a sliver of the treatment area should be removed to account for retention and also to serve as setback from Jaxon creek for water quality purposes. Treatment area should take into account recreation management specifically adjacent to rec trails.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, red maple and oak species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
125 61049125-Cut	22.9	4119 - Mixed Northern Hardwoods	Sawtimber Well	90	111-140	Harvest	Crown Thinning	4116 - Mixed N. Hardwood - Aspen	Uneven-Aged	No
<p><u>Prescription</u> Remove all aspen and beech. Thin hardwoods retaining best quality trees in place, focusing on retention of red maple, sugar maple and oak. Leave larger, theoretical seed producing sugar maple along with larger oak. Where these trees are retained, create large gaps of ~1 acre in an attempt to achieve better quality desirable regeneration of sugar maple and red oak.</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>Proposed Start Date: 10/1 /2021</p>										
135 61049135-NF	7.9	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	31022 - Warm Season Grass		No
<p><u>Prescription</u> Remove exotics as needed by herbiciding, or other methods. Seed in annual crop for soil building for several years then convert to appropriate native mix for site location and seasonal (i.e. summer vs. winter forage) wildlife uses. May want/need to work around existing beneficial vegetation (i.e. blackberry).</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> Maintain as needed with mowing, burning, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, or removal of woody encroachment.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2021</p>										
138 61049138-Cut	24.1	4130 - Aspen	Poletimber Well	69	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, retain white pine in small pockets, specifically near rec trails. Also retain some white pine regen where it will not impede aspen regen - this will likely be done during sale admin process. In addition, retain some overstory oak, again specifically near rec trails.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, white pine, oak species, red maple, scattered balsam fir.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
144 61049144-Cut	4.6	3105 - Mixed Upland Herbaceous	Nonstocked			Harvest	Clearcut with Retention	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> 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> Burn, Opening; Seeding, Machine Seed; Pesticide, Hand Application</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> grasses and forbs</p> <p><u>Regen:</u></p> <p><u>Other</u> Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
146 61049146-Cut	24.9	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	72	111-140	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4116 - Mixed N. Hardwood - Aspen	Two-Aged	No
<p><u>Prescription</u> Remove aspen and beech throughout stand. Retain white pine and hemlock and thin/mark to leave higher quality trees in areas where more concentrated hardwoods are present, namely the central portion of the stand. In these areas of more concentrated hardwoods, retain ~40-60 BA of good quality red maple, black cherry, red oak and some sugar maple.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, red maple, beech, white pine, black cherry and oak species.</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 /2021</p>										
151 61049151-Prep	33.4	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	9	Immature	SitePrep	Other - Specify	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Consider mechanical release of red pine by removing hardwood competition where possible.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Herbicide Use</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine at plantation spacing.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</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
162	61049162-NF	6.6	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2021</p>											
55	NF_61049055-Forage	1.5	2113 - Forage Crops	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> This opening is a traditional wildlife planting. Disk is crab/quack grass, plant to annual rye for several years and then convert back to a pasture mix (i.e. clover/alfalfa).Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> Or consider, disk, plant to annual rye for several years and then convert to appropriate native species mix. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2021</p>											
144	NF_61049144-Brush	12.5	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		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> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2021</p>											

Total Treatment 531.9
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant : Examiner

Compartment: 49

Year of Entry: 2022

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	<i>With Condition</i>	Not Available

Dominant Site Conditions

	Total Acres	Acres Available	Acres <i>With Condition</i>	Acres Not Available		Dominant Site Conditions									
						5B	5C	2F	2G	2H	3D	3G	3J	5E	
1562	1227		253	82	Aspen		253	6		25	38	0			12
935	0		0	935	Cedar				848			87			
15	15		0	0	Cropland										
125	125		0	0	Herbaceous Openland						0	0			
10	0		0	10	Jack Pine						2			8	
82	5		0	77	Lowland Aspen/Balsam Poplar				62					15	
66	0		0	66	Lowland Conifers				66						
261	0		0	261	Lowland Deciduous				237			25			
43	43		0	0	Lowland Mixed Forest						0				
20	20		0	0	Lowland Shrub										
31	31		0	0	Marsh										
52	0		52	0	Mixed Upland Deciduous		52								
351	214		37	100	Northern Hardwood	27	10	37			0	63			
3	3		0	0	Oak										
258	258		0	0	Red Pine		0				0				
61	37		0	24	Upland Conifers							24			
13	7		6	0	Upland Mixed Forest		6								
4	4		0	0	Upland Shrub										
5	5		0	0	Urban						0				
33	33		0	0	White Pine										
3,931	2,027		348	1,556	Total Forested Acres	27	321	44	1,213	25	41	199	23	12	
	52%		9%	40%	Relative Percent										

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

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Compartment: 49

Year of Entry: 2022

2	Unavailable	3G: Other Influence zones - See comments	24	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: See stand comments</p>							
3	Unavailable	3G: Other Influence zones - See comments	15	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: See stand Comments</p>							
4	Unavailable	3G: Other Influence zones - See comments	25	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: See stand comments</p>							
5	Unavailable	3G: Other Influence zones - See comments	39	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: See stand comments</p>							
6	Unavailable	3G: Other Influence zones - See comments	72	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Riparian area along the Boardman River</p>							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Traces of black cherry, ironwood, red oak, white ash in canopy. Stand converting to low quality hardwood. Consider clearcut to maintain aspen if desired.</p>							

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Traverse City Mgt. Unit

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Compartment: 49

Year of Entry: 2022

8	Unavailable	3G: Other Influence zones - See comments	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See stand comments							
9	Unavailable	3D: Recreational / Scenic values	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small area of jack pine next to the Grawn Field Office. Check with staff at Grawn Field Office to see if they would prefer to have this stand retained for ten more years or cut now.							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	307	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments: very wet, WLD recommends holding for deer cover as well.							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	50	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3D: Recreational / Scenic values	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

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Compartment: 49

Year of Entry: 2022

14	Unavailable	3D: Recreational / Scenic values	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2F: Too steep	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3D: Recreational / Scenic values	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2F: Too steep	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Minimal opportunity for landing areas, stand also contains seeps along eastern edge.							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

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Compartment: 49

Year of Entry: 2022

21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	786	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
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Compartment: 49
Year of Entry: 2022

27	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	98	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

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33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Available	5B: Maintain for regeneration purposes	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

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Compartment: 49

Year of Entry: 2022

39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Potential to reevaluate next YOE for access, high water table at time of inventory makes this upland island inaccessible.							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
	Spring Wetlands Riparian Area	Spring Seep	SCA	39
Comments Multiple springs, seeps and riparian areas.				
	Spring Wetlands Riparian Area	Spring Seep	SCA	49
Comments Multiple springs, seeps and riparian areas.				
	Spring Wetlands Riparian Area	Spring Seep	SCA	49
Comments Multiple springs, seeps and riparian areas.				
	Spring Wetlands Riparian Area	Spring Seep	SCA	61
Comments Multiple springs, seeps and riparian areas.				



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	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	36.2	105	81-110	N/A	dense stand of cedar with hemlock, birch, red maple and balsam fir present as well. Stand occupies riparian area along Bietner Creek. Numerous springs and seeps.																																																			
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2	4110 - Sugar Maple Association	Sawtimber Well	17.7	105	171-200	N/A	very steep slopes throughout stand rendering much of stand area inoperable. areas of stand have very nice sugar maple regen and nice saplings and poles, other pockets are dominated by larger log sized sugar maple with scattered basswood, beech and occasional ash. Portion of stand was treated under tsale contract 610841201 in summer/winter, 2015 by Billsby Lumber. Has been separated and is now stand 171.																																																			
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3	4130 - Aspen	Sawtimber Well	19.9	63		N/A	Aspen stand with ~2/3's of stand area on steeper west facing slope, majority of level stand area is near Hoosier Valley road ROW. Variable understory stocking with some more dense pockets.																																																			
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5	310 - Herbaceous Openland	Nonstocked	1.8		Unspecified	No	Small fire occurred on 4/20/20 within stand.																																																			
6	4110 - Sugar Maple Association	Sawtimber Well	9.3	96	81-110	N/A	Stand was treated under contract 610841201 by Billsby Lumber company in the summer/winter of 2015. Sugar maple regeneration is dense in areas of this multi-part stand, much of it has advanced to 2-4' tall, some areas of more dense ironwood regen.																																																			
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7	42110 - Planted Red Pine	Sawtimber Well	15.7	59	141-170	N/A	Stand is growing well, good quality overall with some defect present throughout. Thin stand to remove defect and move stand to a more appropriate stocking level. Stand was treated under contract 019-12-01 in spring/summer 2014 by Proctor Logging. Small fire occurred within stand on 4/20/20.																																																
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8	310 - Herbaceous Openland	Nonstocked	3.9			No	Area of chronic dumping of both household and yard debris.																																																
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9	4133 - Aspen, Mixed Pine	Sawtimber Well	10.5	70		N/A	aspen dominant overall however a pocket of white pine exists in southern portion along with some pockets of sugar maple and basswood making it a mixed stand. stand includes small red pine plantation inclusion in northern tip, unthinned. Also, small area surrounding this red pine is slightly more open and of generally smaller diameter trees. potential treatment to remove aspen and retain some white pine for aesthetics.																																																
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10	4110 - Sugar Maple Association	Poletimber Well	2.5	82	111-140	N/A	fair quality hardwood pocket, ash declining rapidly with a few trees holding on. light beech and ironwood understory, sugar maple is multi sized with some small poles in the intermediate canopy layer. could treat if adjacent aspen is cut.																																																
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11	4130 - Aspen	Poletimber Well	6.2	70	81-110	N/A	mixed stand dominated by Aspen with red and sugar maple present throughout, white pine also a significant component. understory is advanced in some areas. consider harvesting stand with aspen regeneration being the goal along with aesthetic concerns along HV road. steep slopes in northern portion of stand may need to be avoided.																																																
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12	4130 - Aspen	Poletimber Well	8.7	63		N/A	mediocre quality aspen stand growing on somewhat steep slope. could treat by final harvest retaining oak and conifers as residual. expect good aspen regen based on adjacent harvests.																																																				
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13	310 - Herbaceous Openland	Nonstocked	2.1			No																																																					
14	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	6.5	105	111-140	N/A	Stand is upper most reaches of Bietner Creek riparian area. numerous springs and seeps present feeding creek, saturated soils common, quite a few larger boulders scattered throughout stand.																																																				
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15	310 - Herbaceous Openland	Nonstocked	8.7			No	Stand contains area historically used as a shooting range and hill climb. Efforts last entry period to control use were partially successful. Installation of fence has stopped ORV activity. Area remains a problem from a garbage/trash area. Users continue to leave large quantities of shooting related debris on site.																																																				
16	4110 - Sugar Maple Association	Sawtimber Well	20.2	94	81-110	N/A	Stand growing well following treatment, minimal epicormic branching on stems adjacent to more open gaps. Regeneration consists mainly of beech and ironwood with occasional trace cherry and sugar maple. Some browse taking place on regen. Stand was treated under tsale contract 610841201 by Billsby Lumber in summer/winter 2015. Traces of white ash in canopy. Traces of hemlock in sub canopy.																																																				
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17	4130 - Aspen	Sapling Well	8.8	15	Immature	N/A	regenerating stand with red and and red maple retained during harvest as overstory. trace spruce and white pine as well.																																																				
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18	4130 - Aspen	Sapling Well	4.7	15	Immature	N/A	Trace amounts of white pine, red maple, black cherry, hemlock, and balsam fir present (retained from previous harvest). Aspen regen is growing quite well with a fair amount of red maple, black cherry and red oak scattered throughout as well.
Canopy Species		% Cover	Size Class		DBH Age		
Red Maple		20	Sapling		1 15		
Bigtooth Aspen		65	Sapling		1 15		
Black Cherry		10	Sapling		1 15		
Red Oak		5	Sapling		2		
19	310 - Herbaceous Openland	Nonstocked	2.7			No	
20	4112 - Maple, Beech, Cherry Association	Sawtimber Well	21.2	80	81-110	N/A	Steep north facing slope, fair quality hardwoods throughout. Hemlock understory providing nice thermal cover in areas, fair amount of wildlife activity within stand.
Canopy Species		% Cover	Size Class		DBH Age		
Sugar Maple		40	Log/Pole		12 80		
Red Maple		35	Pole/Log		12		
Basswood		15	Log/Pole		12		
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Ironwood			Low	< 5 feet		Sapling	
21	3105 - Mixed Upland Herbaceous	Nonstocked	0.8		Unspecified		Plugged 12/10/2010, rehab status unknown.
22	4130 - Aspen	Poletimber Well	9.6	68		N/A	The historic 'Hoosier Valley Shooting Range' was recently closed, this stand breaks up the open area surrounding and between the old ranges. Recommend leaving this stand until next YOE and then regenerating possibly with stand 23. Stand itself is mediocre BTA, quite variable in terms of size and some variability in stocking.
Canopy Species		% Cover	Size Class		DBH Age		
Red Maple		10	Pole/Sapling		7		
Red Oak		5	Log		14		
Bigtooth Aspen		80	Pole/Sap/Log		8 68		
Black Cherry		5	Pole/Sapling		5		
23	4130 - Aspen	Poletimber Well	7.8	35	Immature	N/A	aspen stand with red oak and red maple present. some variability in terms of size with majority being small pole sized. ut also some larger and smaller trees present. records indicate this stand resulted from a fire, a more recent fire from 2017 burned small area along western edge.
Canopy Species		% Cover	Size Class		DBH Age		
Red Maple		10	Log/Pole		10		
Red Oak		10	Log		12		
Bigtooth Aspen		80	Pole/Sapling		6 35		
24	310 - Herbaceous Openland	Nonstocked	4.2			No	Shooting range area. Same as PI stand number 14.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
25	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	8.9	60	81-110	N/A	Traces of hemlock and elm in canopy. consider treating stand by removing merchantable aspen and red maple for regeneration purposes. avoid any wet areas and/or sensitive soils along south side of stand, retain most conifers and portions of red oak component for mast production.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		20	Pole/Sapling	6		Red Maple		Low	Variable	Sapling
Red Maple		35	Pole/Sapling	6	60	Hemlock		Low	Variable	Pole
Basswood		10	Pole/Log	8		Ironwood		Low	Variable	Sapling
Quaking Aspen		30	Pole/Log	8		Musclewood/Hornbeam		Low	5 - 10 feet	Tall Shrub
Black Cherry		5	Pole/Log	8		Hawthorn (ssp.)		Low	5 - 10 feet	Tall Shrub
26	4130 - Aspen	Poletimber Well	20.8	57		N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		17	Pole	8		Red Maple		Low	Variable	Sapling
Bigtooth Aspen		80	Pole	8	57	White Pine		Low	Variable	Sapling
White Pine		3	Pole	8		Red Oak		Low	5 - 10 feet	Sapling
						Ironwood		Low	5 - 10 feet	Sapling
27	4311 - Pine, Aspen Mix	Poletimber Well	6.4	78	81-110	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		8	Pole/Sapling	6		White Pine		Medium	Variable	Sapling
Red Oak		2	Pole/Log	9						
Bigtooth Aspen		40	Pole	5	45					
White Pine		50	Pole/Sap/Log	8	78					
28	4130 - Aspen	Poletimber Well	67.8	45	51-80	N/A	apen dominated stand with a significant component of white pine and some pockets of red oak concentrated mainly in the western half of stand. red maple and black cherry present throughout as well. western portion where larger oak are present is more open, has an oak Savannah character. overall aspen is small to medium size pole diameter. allowing stand to grow one more entry year would be ideal especially with the amount of aspen present in the compartment ready for harvest.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Pole/Sapling	5		White Pine		Medium	Variable	Sapling
Red Oak		2	Pole/Log	9		Black Cherry		Medium	5 - 10 feet	Sapling
Quaking Aspen		46	Pole/Sap/Log	7	45					
Bigtooth Aspen		30	Pole/Log	8	45					
White Pine		12	Pole/Log	9						
Black Cherry		5	Pole/Sapling	6						
29	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	3.3	59	141-170	N/A	small stand of unthinned red pine, could grow thin or retain long term for thermal cover as suggested in previous inventory.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		3	Pole/Log	9		Black Cherry		Low	Variable	Sapling
Red Oak		2	Log	12						
Bigtooth Aspen		15	Pole	8						
Red Pine		80	Pole	7	59					
30	310 - Herbaceous Openland	Nonstocked	2.2			No				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
31	4130 - Aspen	Poletimber Well	58.0	52	111-140	N/A	treat all or portion of stand depending on what is needed from this 50 year old age class. aspen is growing well, still showing signs of vigor with minimal overstory mortality. options for retention include islands along with individual trees scattered for aesthetics and mast production.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		3	Pole	7		Red Maple		
Red Oak		2	Log/Pole	12		White Pine		
Quaking Aspen		20	Pole/Log	8	52	Black Cherry		
Bigtooth Aspen		70	Pole/Log	9	52	Witch Hazel		
White Pine		2	Log/Pole	10				
Black Cherry		3	Pole	7				
32	3104 - Degraded	Nonstocked	2.2		Unspecified			
33	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	3.9	78	81-110	N/A	white pine dominated stand with aspen scattered throughout. oak that is present is fairly good quality. stand provides a. l e breakup of aspen with nice diversity and thermal cover provided. retain for these reasons if/when surrounding aspen is treated.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		30	Pole	6		White Pine		
White Pine		64	Pole/Sap/Log	7	78	High		
Red Maple		2	Pole	7		>20 feet		
Red Oak		2	Pole	8		Sapling		
34	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	10.2	71	141-170	N/A	Natural white pine, several clusters of log sized trees with natural regeneration of various sizes and ages throughout. Age is for some of the larer white pine. aspen is scattered throughout but much more prevalent along edges, interior is more pure white pine of various size/age. trace large sugar maple.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Pole	7		White Pine		
Quaking Aspen		15	Pole	7		Black Cherry		
Bigtooth Aspen		10	Pole	8				
35	3104 - Degraded	Nonstocked	2.6		Unspecified			
36	4130 - Aspen	Sapling Well	28.9	16	Immature	N/A	aspen growing well, re pine and occasional oak and red maple in overstory providing nice vertical structure and a seed/mast source. some red and white pine along with red oak regen developing under aspen.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		5	Sapling	1	16			
Bigtooth Aspen		75	Sapling	1	16			
Red Pine		13	Pole/Log	8	65			
Black Cherry		5	Sapling	1	16			
Red Oak		2	Log/Pole	12				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
37	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Medium	7.8	66	1-50	N/A	Portions of this stand are marginally lowland. Stand occupies a seasonal drainage and margins and lies on an area of generally high water table, overall lowly stocked and poor quality. Retain stand for cover and for water quality purposes.																																															
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38	42110 - Planted Red Pine	Poletimber Well	38.8	65	141-170	N/A	multi part stand row thinned two entry periods ago, somewhat erratic rows in portions of stand. ba is variable as is size and quality in spots, overall stocking hovers in 150-180 range on average. overall size of red pine is ~9", could be called log sized overall, right at the cusp. significant amount of suppressed smaller poles was determining factor in calling it overall pole sized. red pine are definitely pole and log size though. could mark to thin, consider removing deciduous component at this time and protect pockets of aspen regen. Overall aspen and red maple understory component are low density but there are pockets/areas of stand where stems are a bit more concentrated.																																															
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39	4130 - Aspen	Poletimber Well	24.6	52		N/A	aspen stand with red maple, white pine, cherry and scattered oak throughout. decent quality, some variability in terms of size and stocking. higher quality than stand 164 to the west. if aspen is needed from this age class, consider this stand for treatment, removing all aspen and red maple and retaining some individual trees and/or clumps/islands for diversity, aesthetics and a mast/seed source.																																															
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40	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	3.1	65	81-110	N/A	Small hardwood stand, fair quality. Providing nice diversity in area of aspen regeneration and conifer swamp further to the south.																																															
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41	4130 - Aspen	Sapling Well	10.0	7	Immature	N/A	aspen regenerating well along with white pine, red oak and red maple. scattered fir present as well throughout stand. overstory red oak, red maple and white pine retained last harvest.																																															
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42	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	18.3	65	171-200	N/A	red pine plantation that has significant aspen component along with some red maple and red oak. southern fingers of stand contain more Aspen than red pine. pockets of plantation are more pure red pine, mainly in western lobe but majority is mixed at this point and any treatment would likely result in aspen regeneration making future management of red pine difficult. consider treating by final harvest. retaining a pocket or two of red pine as long term retention.																																																						
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43	4130 - Aspen	Poletimber Well	35.2	54	Unspecified	N/A	good quality aspen, fairly uniform density with some variability in size and quality. corners present along southern line, consider treating stand or portions of it to continue to break up age classes in this area. options for retention include retaining islands and/or individual trees for aesthetics and mast/seed production.																																																						
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44	310 - Herbaceous Openland	Nonstocked	1.4			No																																																							
45	4130 - Aspen	Sapling Well	29.7	7	1-50	N/A	Stand harvested under tsale contract 058-12-01, white pine retention left along southern sale boundary, also retention islands along with scattered red oak, white pine and red maple individuals throughout stand. regeneration is doing well, balsam fir and white pine regen providing good thermal cover.																																																						
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46	6112 - Lowland Aspen	Poletimber Well	15.3	60		N/A	small lowland aspen stand looks to be seasonally wet. originally part of adjacent stand 45 but left as retention and/or because it was deemed too wet. low quality, good regen working it's way into canopy. recommend not harvesting at this time.																																																						
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47	3202 - Autumn Olive/Honeysuckle	Nonstocked	2.1			Managed Opening																																																							
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48	310 - Herbaceous Openland	Nonstocked	2.6		Unspecified																																																								
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50	4110 - Sugar Maple Association	Sawtimber Well	38.2	70	81-110	N/A	Stand was harvested under tsale contract 050-12-01, completed in fall/winter 2014 by Zoscsak Logging. Stand is responding fairly well to thinning, overstory seems to be growing well and is decent quality. Desirable regeneration however is lacking as majority of regeneration is beech, ironwood with only scattered red and sugar maple regen.																																											
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51	623 - Emergent Wetland	Nonstocked	3.5			No	Standing dead jack pine snags. Area appears to be seasonally flooded, but unsure of level 3 call.																																											
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52	4199 - Other Mixed Upland Deciduous	Poletimber Well	23.4	66	81-110	N/A	mediocre quality hardwoods with aspen present throughout. white pine more prevalent in eastern portion of stand. scattered hemlock in understory. could potentially treat by removing aspen. retaining some white pine and sugar maple as a seed source, with the focus being on regenerating aspen and some hardwoods.																																											
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53	42110 - Planted Red Pine	Sawtimber Well	3.5	60	141-170	N/A	small stand, good quality. small amount of defect remains. thin one more time removing remaining defect and to improve overall stocking. understory is moderately stocked, trace cherry and a few hemlock saplings in sw corner. Stand was harvested in summer 2014 under tsale contract 019-12-01 by Proctor Logging.																																											
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54	4130 - Aspen	Sapling Poor	7.7	10	Immature	N/A	regenerating well, stand is fully stocked, good quality regen throughout.																																											
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55	2113 - Forage Crops	Nonstocked	1.5			Managed Opening	Formerly maintained rye planting.																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
56	4130 - Aspen	Sapling Well	22.4	17	Immature	N/A	aspen growing well, very dense stocking overall. scattered red maple, oak. white pine and red pine throughout in understory and larger retained trees from harvest.																																																		
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57	6120 - Lowland Cedar	Poletimber Well	307.2	81		N/A	fair amount of dieback in cedar tops and some overall mortality in spots. Areas of tag alder present, very difficult to access interior portions of stand due to standing water, springs/seeps, etc. In some of the more open areas balsam fir pockets have developed and are providing some great thermal cover. Some areas are in the 50-75 canopy closure range but overall the stand has full canopy.																																																		
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58	4130 - Aspen	Poletimber Well	22.6	66		N/A	aspen growing fairly well, some variability in size and stocking but overall fully stocked. some larger diameter aspen present, however overall average diameter is pole sized. some pockets of smaller diameter red maple regen. consider treating with final harvest, retention in the form of scattered white pine and red oak would be appropriate in order to maximize aspen and red maple regen in this more narrow stand.																																																		
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59	42110 - Planted Red Pine	Sapling Well	42.0	9	Immature	N/A	After looking at stand this inventory cycle it is my opinion that we should leave the stand as is. Some pockets will have lighter density as stand becomes merchantable but overall stocking should be average and as is the saplings in place area growing well. Stand was clearcut under contract #610410901 (red pine project) which was completed June 2011. Stand is prescribed for trenching and replanting to red pine. The site was trenched 2011, planted 2012. The year 1 regen survey in 2013 shows 487 TPA red pine and 881 TPA of Cherry, Beech, Upland shrub. The site needs to be replanted but we should herbicide the site to reduce competition first. Site was release sprayed in 2013, replanted in 2014. The yr1 replant survey was completed in 2015 and year 3 regen survey of the replant was done in 2017 - 495 TPA planted, 175 volunteer TPA (670TPA) and non-target TPA 307. Recommend when reinventoried that it be determined whether this stand/planting needs any further treatments to ensure success of plantation. Could not update treatment steps through this process so am spelling it out in the MiFI stand specific comments and have entered a monitoring treatment for the stand to keep it on the radar prior to the re-inventory cycle.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
60	42200 - Natural White Pine	Sawtimber Well	13.8	90	51-80	N/A	white pine overstory with aspen regenerating underneath. aspen growing well, white pine is too and is seeding in resulting in significant white pine regen is spots, under aspen regen. stand providing great cover and structural diversity.																																																					
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61	310 - Herbaceous Openland	Nonstocked	6.6			No	several aspen clones located in opening																																																					
62	4130 - Aspen	Sapling Well	34.3	10		N/A	Aspen regen growing well, retained white pine concentrated in southern half of stand providing nice vertical structure and some thermal cover. Timber sale included an opening stand that was incorporated into sale in order to remove woody encroachment, will need to see results of regen to determine outline of non-forested boundary in order to delineate that stand again if desirable.																																																					
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63	31022 - Warm Season Grass	Nonstocked	1.1	0	Unspecified		grassy opening, resulting from old well site.																																																					
64	4130 - Aspen	Poletimber Well	126.7	60	111-140	N/A	aspen stand transitioning from pole to log with pockets where aspen is in the small log size class. overall fair quality with good diversity, lots of wildlife activity throughout. consider treating stand with final harvest retaining some conifers and other trees for mast and seed. could also retain a few islands, especially if entirety of stand is harvested. red pine pocket should be an island of retention on south side of Blair townhall rd, remove aspen within this island.																																																					
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65	2113 - Forage Crops	Nonstocked	3.9			Managed Opening																																																						
66	310 - Herbaceous Openland	Nonstocked	0.9		Unspecified																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
67	4119 - Mixed Northern Hardwoods	Poletimber Well	27.9	42	81-110	N/A	mixed stand with red maple dominant. oaks scattered. good quality. sugar maple is of decent quality, white pine concentrated along NW edge. beech are large and scattered throughout, left as mast source from last harvest. aspen in small clones.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		15	Pole/Sapling	6		Red Maple		
Red Maple		50	Pole/Sap/Log	6	42	Medium		
Beech		5	Log	16		Variable		
Bigtooth Aspen		5	Log/Pole	10	42	Low		
White Pine		10	Pole/Log	8		5 - 10 feet		
Black Cherry		5	Sapling/Pole	4		Sapling		
Ironwood		5	Sapling/Pole	4		Sapling		
Red Oak		5	Log/Pole	10				
68	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	12.4	106	81-110	N/A	lowland stand, hemlock and cedar dominant with red maple throughout, concentrated along edges. Traces of spruce, fir and yellow birch present in canopy.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		25	Log/Pole	12		White Pine		
Quaking Aspen		5	Pole/Log	8		Low		
Northern White Cedar		30	Pole/Log	9	106	Variable		
Hemlock		35	Log/Pole	12	106	Sapling		
						Black Ash		
						Low		
						< 5 feet		
						Sapling		
69	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	24.7	68		N/A	Lowland stand with some small areas of upland. Traces of cedar, tamarack, red maple in canopy. Medium to high sub canopy shrub layer present. Some species not identified.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		5	Pole	6		Northern White Cedar		
Quaking Aspen		15	Pole/Log	9		Medium		
White Spruce		10	Log/Pole	12		>20 feet		
White Pine		10	Log/Pole	12		5 - 10 feet		
Black Ash		20	Pole/Sapling	6		Tall Shrub		
						Medium		
						5 - 10 feet		
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70	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.8	96	141-170	N/A	Upland red maple stand that also occupies the transition zone between upland and lowland. Overall size decreases as you move toward adjacent stand to the north.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		95	Log/Pole	10	96	Red Maple		
						Medium		
						Variable		
						Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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71	4115 - Y.Birch, Hemlock NH	Sawtimber Well	38.8	86	81-110	N/A	unique stand on steep slope leading to board man river. numerous seeps, springs and saturated ground especially towards the base of the slopes. decent quality timber but slopes, sensitive nature of soils and unique character preclude any management possibilities.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		25	Log/Pole	12		Sugar Maple		Low	Variable	Sapling	
Red Maple		35	Log/Pole	12	86	Red Maple		Low	Variable	Sapling	
Yellow Birch		10	Log/Pole	12		Hemlock		Medium	Variable	Pole	
Basswood		5	Log/Pole	10							
White Ash		5	Log/Pole	10							
Red Oak		5	Log	14							
Hemlock		10	Log/Pole	12							
Black Cherry		5	Log/Pole	10							

72	4131 - Aspen, Oak	Poletimber Well	33.3	35	Immature	N/A	aspen stand with oak and red maple scattered throughout along with white pine. aspen growing well, transitioned into small pole size class with waplign component present as well.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		20	Sapling/Pole	4				
Red Oak		20	Pole/Sapling	5				
Bigtooth Aspen		50	Pole/Sapling	5	35			
White Pine		10	Pole/Log	8				

73	4130 - Aspen	Poletimber Well	16.0	28	Immature	N/A	isolated Aspen stand, small pole, large sap size. decent quality overall, fir scattered throughout understory. small pocket of a few larger oak.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		5	Sapling/Pole	4	28	Balsam Fir		Low	Variable	Sapling	
Bigtooth Aspen		80	Pole/Sapling	5	28	Black Cherry		Medium	5 - 10 feet	Sapling	
Black Cherry		15	Sapling	4							

74	4130 - Aspen	Poletimber Well	18.4	58	Unspecified	N/A	fair quality aspen stand with red maple and white pine evenly distributed throughout. white pine sub canopy is well developed, also red maple and cherry present in lesser numbers.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		15	Pole/Log	9		Red Maple		Low	Variable	Sapling	
Red Oak		3	Log/Pole	12		White Pine		High	Variable	Sapling	
Quaking Aspen		10	Pole/Log	8		Black Cherry		Low	Variable	Sapling	
Bigtooth Aspen		62	Pole/Log	9	58	Witch Hazel		Low	5 - 10 feet	Tall Shrub	
White Pine		5	Log/Pole	12							
Black Cherry		5	Pole/Log	8							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
75	4130 - Aspen	Sapling Well	66.2	10	1-50	N/A	mixed stand of aspen with white pine throughout. black cherry and red maple present as well with red oak also a component. Jack pine present along eastern edge and occasionally in interior. some browse but overall stand is doing well.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		8	Sapling	1		White Pine		
Red Oak		2	Pole/Log	8		Black Cherry		
Quaking Aspen		18	Sapling	1		Witch Hazel		
Bigtooth Aspen		50	Sapling	1	10			
Black Cherry		5	Pole/Sapling	7				
White Pine		15	Sapling/Pole	4				
Jack Pine		2	Sapling/Pole	3				
76	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	47.5	86	Unspecified	N/A		Mixed lowland conifer stand with red maple and aspen scattered throughout. Some small areas of upland, generally more open in nature - also one area of transition where a grove of larger white pine is present. small creek runs through stand in a northwesterly direction.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Pole/Log	8		Balsam Fir		
Quaking Aspen		20	Pole/Log	7				
Balsam Fir		29	Pole	7				
Northern White Cedar		31	Pole	6	86			
77	4130 - Aspen	Poletimber Well	11.3	28	Immature	N/A	aspen pole/sapling stand, fair quality. just into pole sized overall, includes a great deal of sapling sized aspen. some indicators of high water table mainly along northern edge of stand. size and quality somewhat variable throughout stand, red maple and scattered black cherry throughout.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		15	Sapling/Pole	4		Black Cherry		
Quaking Aspen		40	Pole/Sapling	6	28			
Bigtooth Aspen		30	Pole/Sapling	7	28			
Black Cherry		15	Sapling/Pole	4				
78	122 - Road/Parking Lot	Nonstocked	4.7			Managed Opening		
79	42120 - Planted Jack Pine	Poletimber Well	2.2	61	Unspecified	N/A	Small JP stand, starting to break up with normal mortality expected for this age jack pine. See previous comments, need to check with Grawn staff on whether they would like to see this cut while RP is cut.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		100	Pole/Log	9	61			
80	4130 - Aspen	Sapling Well	10.6	7	Immature	N/A	aspen regenerating well, white pine and balsam fir scattered throughout. Stand harvested in winter, 2014 under tsale contract 61-12-01.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		10	Sapling	1				
Quaking Aspen		60	Sapling	1	7			
Bigtooth Aspen		20	Sapling	1				
Balsam Fir		5	Sapling/Pole	3				
White Pine		5	Sapling/Pole	4				



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81	429 - Mixed Upland Conifers	Sawtimber Well	23.9	68	141-170	N/A	mixed stand, high water table with small opwn pockets containing tag alder and high bush cranberry. pipeline runs through stand. Canopy also contains traces of silver maple, elm, tamarack, black cherry, paper birch.																																					
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Unlisted - See Comments	High	5 - 10 feet	Tall Shrub																																									
82	6112 - Lowland Aspen	Sapling Medium	4.6	7	Immature	N/A	growing fairly well, patchy regen in portions of stand. some pockets of lowland shrubs as well. Stand harvested under tsale contract 061-12-01 in winter/spring 2014.																																					
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83	2113 - Forage Crops	Nonstocked	4.8			Managed Opening																																						
84	4139 - Aspen, Mixed Deciduous	Sawtimber Well	9.2	66	Unspecified	N/A	small isolated Aspen stand with fir, white pine, red maple and scattered oak. birch present as well.																																					
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85	4130 - Aspen	Sapling Well	2.0	28	Immature	N/A	aspen growing well, transitioning from sap to pole, white pine and balsam fir throughout understory.																																					
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86	4130 - Aspen	Sapling Well	23.1	14	Immature	N/A	aspen regenerating well, good form. white pine and oak pole/log sized trees scattered throughout.																																					
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87	42110 - Planted Red Pine	Sawtimber Well	7.7	61	141-170	N/A	responding well to most recent thinning, still some defect scattered throughout and BA is in the range where a treatment is desirable, recommend thinning one more time, a bit heavier and leaving only the best quality log sized trees for aesthetics near prd office. red maple and white pine understory should respond well and stand should transition into a more natural looking one which should be the goal.																																					
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88	310 - Herbaceous Openland	Nonstocked	1.8		Unspecified																																																			
89	42110 - Planted Red Pine	Sawtimber Well	29.0	66	111-140	N/A	red pine growing well, ba hovers in the 120-160 range, very little significant defect. grow stand another yoe and evaluate it and the adjacent client stands for co management of some sort. Stand was harvested under tsale contract 038-12-01 in fall of 2013.																																																	
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90	2113 - Forage Crops	Nonstocked	4.5			Managed Opening																																																		
91	6115 - Lowland Ash	Poletimber Well	5.0	56	81-110	N/A																																																		
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92	4132 - Aspen, Jack Pine	Sapling Well	28.3	18	Immature	N/A	mixed stand of aspen and Jack pine pockets with other species scattered uniformly throughout.																																																	
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93	623 - Emergent Wetland	Nonstocked	2.5			No																																																		
94	4130 - Aspen	Sapling Well	15.7	7	Immature	N/A	a3 stand with significant white pine component along with variable size oak trees left as residual during harvest. balsam fir also scattered throughout.																																																	
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95	4131 - Aspen, Oak	Sawtimber Well	10.5	65		N/A	mixed stand with aspen and oak dominant. white pine present throughout all layers of the canopy, trace hemlock present as well. could treat with a final harvest and retain a few oaks for mast production. adjacent stand is regenerating very well and this can be the expected result of a harvest in this stand as well.																																												
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96	4119 - Mixed Northern Hardwoods	Sawtimber Well	3.6	108	81-110	N/A	Thinned fall 2012. Small numbers of birch, basswood, beech.																																												
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97	6112 - Lowland Aspen	Sapling Well	9.4	17	Immature	N/A	aspen regenerating well overall with some size and stocking variability. standing water through much of stand. fir scattered around stand, shrubby component in pockets. Stand contains traces of bur or swamp white oak retained from last harvest.																																												
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98	310 - Herbaceous Openland	Nonstocked	1.9			No																																													
99	4123 - Red Oak	Poletimber Well	2.9	68	111-140	N/A	small oak/aspen stand, fair quality. paper birch scattered throughout with white pine and some deciduous in understory.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
101	4130 - Aspen	Sapling Well	9.9	17	Immature	N/A	aspen regen doing very well, fir, oak, cherry and red maple present throughout. traces of white pine, red maple, sugar maple, black cherry, and red oak present in super canopy (retained from previous harvest).																																										
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102	4130 - Aspen	Poletimber Well	10.6	28	Immature	N/A	a6/a3 stand growing well, white pine scattered throughout along with some oaks. balsam fir is starting to fill in spots of the understory.																																										
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103	4130 - Aspen	Sapling Well	16.1	17	Immature	N/A	white pine and red oak poles and logs present in canopy retained from last harvest. aspen regenerating well with oak and red maple present as well. some scattered white pine regen present.																																										
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104	622 - Lowland Shrub	Nonstocked	20.3			No	lowland stand with alder throughout along with some other lowland shrubs. has small creek that is actually a diversion from the boardman river running through it																																										
105	4130 - Aspen	Sapling Well	26.6	15	Immature	N/A	Bigtooth mainly in the north, quaking mainly in the southern two thirds of stand. White pine heavier in southern part of stand. aspen regenerating well, wide range of pole sized trees present along with some log sized trees, mainly red oak.																																										
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106	4130 - Aspen	Sawtimber Well	41.6	67		N/A	good quality big tooth aspen with red maple, cherry. oak and white pine present as well. more white pine in western lobe. some decent oak regen in understory along with some fir, white pine and beech. trace sugar maple present. consider treating all or portion of stand with final harvest. single tree or island retention would be appropriate. Traces of red oak, sugar maple, and paper birch present in canopy.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
107	4136 - Aspen, Mixed Conifer	Sawtimber Well	38.1	62		N/A	mixed stand of aspen and conifers, high water table with some of stand submerged at time of inventory. trace hemlock and very scattered other hardwood species including basswood and swamp white oak. some open areas where it looks like flooding has occurred, significant mortality in these spots with tag alder beginning to take over.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		20	Log/Pole	10		Red Maple		
Red Oak		5	Log	16		Low		
Quaking Aspen		40	Log/Pole	10	62	Medium		
Bigtooth Aspen		10	Log/Pole	10		Variable		
Balsam Fir		10	Pole	7		Sapling		
Northern White Cedar		5	Pole/Log	8		Sapling		
White Pine		10	Log/Pole	10				
108	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	6.6	86		N/A		mixed lowland conifer stand, partially flooded at time of inventory. lots of wildlife use throughout, stand provides excellent cover adjacent to young upland aspen stands.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		33	Pole	8	56	Balsam Fir		
Balsam Fir		15	Pole	8		Full		
Black Spruce		5	Pole	7		Variable		
Northern White Cedar		40	Pole/Log	9	86	Sapling		
Tamarack		5	Log	12				
109	6115 - Lowland Ash	Sapling Poor	32.0	45		N/A	stand regenerating very well, fair amount of stand along northern edge is under water, likely resulting from beaver activity. lots of sign within stand of beavers cutting saplings down. scattered fir, white pine and a small pocket of a dozen or so swamp white oaks retained from harvest.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		15	Sapling/Pole	3		Balsam Fir		
Paper Birch		5	Sapling	3		Low		
Quaking Aspen		10	Sapling/Pole	3		Medium		
Black Ash		70	Sapling/Pole	3	45	5 - 10 feet		
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111	4130 - Aspen	Sapling Well	11.7	17	Immature	N/A	stand regenerating very well, fair amount of stand along northern edge is under water, likely resulting from beaver activity. lots of sign within stand of beavers cutting saplings down. scattered fir, white pine and a small pocket of a dozen or so swamp white oaks retained from harvest.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Sapling	1	17			
Quaking Aspen		20	Sapling	1	17			
Bigtooth Aspen		65	Sapling	1	17			
Black Cherry		5	Sapling	1	17			
112	310 - Herbaceous Openland	Nonstocked	1.6			No		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
113	4130 - Aspen	Sapling Well	6.0	15	Immature	N/A	red oak and white pine poles retained from harvest distributed throughout. bulk of canopy consists of aspen and oak regen with some white pine saplings.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		5	Sapling	1				
Red Oak		15	Sapling/Pole	3				
Bigtooth Aspen		70	Sapling	2	15			
Black Cherry		5	Sapling	1				
White Pine		5	Pole/Sapling	5				
114	6112 - Lowland Aspen	Poletimber Well	52.5	65		N/A		
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		10	Pole/Log	8				
Quaking Aspen		65	Pole	8	65			
White Pine		20	Pole/Log	8				
Black Cherry		5	Pole/Log	9				
Sub-Canopy Species		Density	Avg. Height	Size				
White Pine		Low	Variable	Sapling				
Unlisted - See Comments		Medium	< 5 feet	Tall Shrub				
115	310 - Herbaceous Openland	Nonstocked	1.9			No		
116	623 - Emergent Wetland	Nonstocked	6.6			No		
117	623 - Emergent Wetland	Nonstocked	18.0			No		
118	4130 - Aspen	Sapling Well	14.0	15	Immature	N/A	aspen stand with overstory oak retained at time of harvest along with scattered white pine and fir.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		7	Sapling	2	15			
Red Oak		15	Log/Pole	12				
Paper Birch		2	Pole	8				
Quaking Aspen		5	Sapling	2	15			
Bigtooth Aspen		65	Sapling	3	15			
White Pine		3	Pole	7				
Balsam Fir		3	Sapling/Pole	4				
119	4131 - Aspen, Oak	Sawtimber Well	36.2	69	Unspecified	N/A	mixed stand of aspen/oak with red maple throughout. advanced understory of beech and ironwood in places along with a fair amount of red oak regen. consider treatment to remove aspen and retain some oak for mast. BRT and S2S trail run through center of stand. Stand includes portion of slope towards Jaxon creek and stand 134 where aspen begins to mix with hemlock and large white pine. This area should be excluded from treatment area, along with potentially the southern finger of stand to account for aesthetics, setback and water quality concerns. Consider retaining western 1/2 of stand until next YOE since many of the stands around this portion of stand 119 were cut in the last two entry periods. Stand provides a good source of acorns in proximity to adjacent aspen clearcuts. Traces of paper birch in canopy.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		19	Pole	8				
Red Oak		36	Log/Pole	12	101			
Bigtooth Aspen		45	Log/Pole	10	69			
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		Low	Variable	Sapling				
Beech		Medium	Variable	Sapling				
Red Oak		Medium	Variable	Sapling				
Ironwood		Low	Variable	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
120	6120 - Lowland Cedar	Poletimber Well	480.0	81		N/A	Expansive lowland cedar stand with obvious variability throughout in terms of size stocking and species composition. lowland with much of the stand having standing water throughout.																																																												
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122	310 - Herbaceous Openland	Nonstocked	26.2			No																																																													
123	6120 - Lowland Cedar	Sawtimber Well	72.3	104	111-140	N/A	lowland stand with standing water throughout much of stand. scattered large white pine, occasional pockets of blow down where balsam fir has regenerated. paper birch is concentrated in pockets with some scattered individuals.																																																												
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124	4130 - Aspen	Sapling Well	40.9	28	Immature	N/A	aspen stand, transitioning to pole sized but not quite there yet. growing well. fair quality. white pine scattered throughout stand along with oak. Traces of balsam fir poles present in canopy.																																																												
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125	4119 - Mixed Northern Hardwoods	Sawtimber Well	22.9	90	111-140	N/A	mixed hardwood stand of mediocre quality. variable in terms of size and stocking, significant understorey throughout stand. There are a few log size hemlocks in the stand.																																																												
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126	4130 - Aspen	Sapling Well	14.6	9	Immature	N/A	aspen regenerating well, scattered red maple and oak along with balsam fir and white pine evenly distributed throughout.																																																															
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127	429 - Mixed Upland Conifers	Sawtimber Medium	28.4	96	51-80	N/A	Stand occupies an upland sandy ridge surrounded by lowland types.																																																															
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128	310 - Herbaceous Openland	Nonstocked	8.2			No																																																																
129	4119 - Mixed Northern Hardwoods	Sawtimber Well	26.8	75	111-140	N/A	red maple stand with scattered oak, aspen, white pine and trace other species - tamarack, spruce, and balsam fir. balsam fir understory is quite thick, classified stand as upland lowland, significant significant areas where water and/or saturated soils are present especially along southern edges. trace hemlock also present in over and understory.																																																															
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130	4136 - Aspen, Mixed Conifer	Sapling Well	6.1	9	Immature	N/A	regenerating fairly well, some less stocked portions. Stand was harvested under tsale contract 610241201 in spring of 2012.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
131	4199 - Other Mixed Upland Deciduous	Sawtimber Well	28.8	94	81-110	N/A	oak/aspen stand with other scattered hardwoods present. Stand slopes to the north on the northern edge but is mainly upland and dry.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		15	Log/Pole	12		Beech		
Red Maple		20	Pole/Log	8		White Pine		
Beech		10	Pole/Log	8		Ironwood		
Red Oak		35	Log/Pole	12	94			
Bigtooth Aspen		20	Pole/Log	9				
132	4130 - Aspen	Sapling Well	42.5	15	Immature	N/A	Good aspen regeneration throughout stand, growing well and fully stocked. Stand includes small strip of aspen along eastern edge that was retained at time of harvest to account for retention and also to provide a buffer to stand 134, accounting for setback from Jaxon Creek. Traces of red oak, red maple, white pine, black cherry poles and logs (retained from previous harvest). Traces of white pine saplings present in canopy.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		10	Sapling	1	15			
Bigtooth Aspen		75	Sapling	2	15			
Black Cherry		10	Sapling	1				
Red Oak		5	Log/Pole	10				
133	4112 - Maple, Beech, Cherry Association	Sawtimber Well	24.1	117	111-140	N/A	unique stand with very steep slopes and numerous seeps and springs present joining to form a small creek at northern edge of stand. origins/springs are surrounded by cedar on upper reaches of slopes. Traces of black cherry and yellow birch present in canopy.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		65	Log/Pole	13	117	Hemlock		
Red Maple		15	Log/Pole	12				
Basswood		5	Log/Pole	12				
Beech		5	Log/Pole	13				
134	6120 - Lowland Cedar	Poletimber Well	49.8	110		N/A	Jaxon creek flows through this narrow stand, steep slopes down to creek present with numerous seeps feeding creek for the length of the stand. Some blow down in spots where trees are undermined by springs creating a tangle of CWD and excellent wildlife cover. Trace oak on upper reaches of slopes along with birch. Typed as overall size of pole but could be considered small log, some large trees present.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Log/Pole	10		Balsam Fir		
Bigtooth Aspen		10	Pole/Log	9		White Pine		
Northern White Cedar		50	Pole/Log	8	110	Hemlock		
White Pine		20	Log/Pole	10				
Hemlock		10	Pole/Log	9				
135	310 - Herbaceous Openland	Nonstocked	7.9			No		
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		Low		Pole				
Quaking Aspen		Low		Pole				
White Pine		Medium		Pole				
Black Cherry		Low		Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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136 6120 - Lowland Cedar Sawtimber Well 15.0 112 N/A Observed one canopy gap where balsam fir regeneration was extremely dense, but this was not typical of the rest of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	8		Balsam Fir	Low	Variable	Sapling
Balsam Fir	20	Pole/Log	9					
White Spruce	5	Pole/Log	9					
Northern White Cedar	60	Log/Pole	12	112				
Black Ash	10	Pole/Log	9					

137 310 - Herbaceous Openland Nonstocked 1.3 No

138 4130 - Aspen Poletimber Well 24.1 69 111-140 N/A some stocking variability within stand, most notably in northern portion. white pine present in all levels of canopy, more open grown form in north where canopy closure is closer to 60-70%. could treat stand by removing canopy and retaining multiple size classes of white pine and red oak scattered throughout stand. Traces of red oak in canopy. Traces of red oak and beech in sub-canopy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Log	9		White Pine	Medium	Variable	Sapling
Quaking Aspen	17	Pole/Log	8		Black Cherry	Low	Variable	Sapling
Bigtooth Aspen	50	Pole/Log	9	69	Beech	Low	5 - 10 feet	Sapling
White Pine	10	Pole/Log	9		Red Oak	Low	5 - 10 feet	Sapling
Black Cherry	5	Pole/Log	9					
Red Oak	3	Log/Pole	10					

139 3202 - Autumn Olive/Honeysuckle Nonstocked 2.3 No Old well site planted to autumn olive.

Sub-Canopy Species	Density	Avg. Height	Size
Autumn Olive	High		Tall Shrub

140 4130 - Aspen Sapling Well 2.8 28 Immature N/A aspen stand growing well, still sapling sized but some small pole sized trees present. overstory white pine scattered throughout with some regen present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	95	Sapling	3	28	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	2	Pole/Sapling	5		White Pine	Low	5 - 10 feet	Sapling
White Pine	3	Log/Pole	10					

141 4130 - Aspen Poletimber Well 22.8 48 Unspecified N/A consider treating stand with a final harvest to regenerate aspen. density is variable in spots as is average dbh. quaking aspen growth seems to have stagnated, regen harvest will allow aspen to reflush and hopefully gain more vigor. retain some over and understory of conifer and oak component for cover and mast production. Canopy also contains traces of red oak sawlogs and some paper birch.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Pole	6		Red Oak	Medium	Variable	Sapling
Quaking Aspen	53	Pole	8	48	White Pine	Medium	Variable	Sapling
Bigtooth Aspen	30	Pole/Log	9		Black Cherry	Low	Variable	Sapling
White Pine	2	Log/Pole	10					
Red Maple	5	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
142	6118 - Lowland Deciduous with Cedar	Poletimber Medium	199.6	86		N/A	There are a few log sized red maple and black ash trees scattered throughout the stand. Also some large snags. Lots of CWD, blow down. No reportable sub-canopy, because significant portions of the stand are sapling sized and are actually part of the canopy. Standing water throughout much of stand along with some alder and switchgrass in spots.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		30	Log/Pole/Sap	10	86	Tag Alder		Low	5 - 10 feet	Tall Shrub
Yellow Birch		10	Pole/Log	9						
Balsam Fir		5	Pole/Sapling	6						
Northern White Cedar		20	Pole/Sapling	7						
White Pine		15	Log/XLog/Pole	16						
Black Ash		20	Sapling	2						
143	4130 - Aspen	Sapling Well	14.1	15	Immature	N/A	Traces of red oak sawlogs, red maple and white pine poles in canopy.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		18	Sapling	1						
Bigtooth Aspen		80	Sapling	1	15					
White Pine		2	Sapling	2						
144	3105 - Mixed Upland Herbaceous	Nonstocked	16.0			No				
145	4130 - Aspen	Poletimber Well	20.0	38		N/A	Variable sized aspen throughout with larger white pine scattered. Some standing water most notably along western edge. Retain til next YOE or the following.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		95	Pole/Sapling	6	38	Balsam Fir		Low	Variable	Sapling
White Pine		5	Log/Pole	10						
146	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	24.9	72	111-140	N/A	consider treating stand by final harvest retaining all conifers in over and understory. in addition retain pockets of red maple, oak and birch 5-10 trees/pocket for seed source and aesthetics. goal is to create a younger age class stand regenerating aspen and red maple.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		55	Log/Pole	10	72	Red Maple		Medium	Variable	Sapling
Red Oak		5	Pole/Log	9		Balsam Fir		Low	Variable	Sapling
Paper Birch		2	Pole	7		Hemlock		Low	Variable	Pole
Quaking Aspen		10	Pole/Log	8						
Bigtooth Aspen		20	Pole/Log	9						
White Pine		3	Log/Pole	11						
Black Cherry		5	Pole/Log	9						
147	4130 - Aspen	Sapling Well	4.9	28	Immature	N/A	aspen growing well, good stems per acre with mix of red maple, bc and scattered conifer components providing diversity. transitioning from sapling to pole.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Sapling	3		White Pine		Low	Variable	Sapling
Quaking Aspen		50	Sapling/Pole	4	28	Black Cherry		Low	Variable	Sapling
Bigtooth Aspen		40	Pole/Sapling	5	28					
White Pine		2	Pole	7						
Black Cherry		3	Sapling	3						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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148	310 - Herbaceous Openland	Nonstocked	1.5		Unspecified		
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149	42110 - Planted Red Pine	Sawtimber Well	12.5	65	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	92	Log	12	65
Quaking Aspen	5	Pole/Sapling	6	
White Pine	3	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Sapling
Red Oak	Low	< 5 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling

recommend retaining stand as buffer along Jaxon creek and drainage ditch that originates in lowland flooding to the SE, on the south side of Balir Townhall Rd, aspen pocket in southern tip has declined significantly and understory seems to be converting to red maple with oak component here along with under red pine which occupies majority of stand. aspen and white pine are concentrated in small pockets and along creek riparian areas. Area retained at time of RPP clearcut of adjacent stand to the west to provide some buffering of Jaxon Creek and drainage ditch that joins Jaxon Cr.

150	4130 - Aspen	Poletimber Well	5.7	63	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	8	
Quaking Aspen	10	Pole	7	
Bigtooth Aspen	75	Pole/Log	9	63
White Pine	2	Log/Pole	10	
Black Cherry	3	Pole/Log	8	

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

retained when surrounding aspen was cut, left as long term retention from stand 62 surrounding WLD managed opening.

151	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	33.5	9	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	75	Sapling	2	9
Red Maple	15	Sapling	1	
Jack Pine	5	Sapling	2	
Red Oak	5	Sapling	1	

red pine growing well, some pockets of jack pine regen along with a fair amount of deciduous regen throughout most notably in southern half of stand. consider mechanical release one more time. Planted in 2012 - year 1 survey results unavailable. It was determined the site needs to be replanted but we should herbicide the site to reduce competition first. Site was release sprayed in 2013, replanted in 2014. The yr1 replant survey was completed in 2015 - 633TPA with 291 volunteer TPA, along with 222 TPA of deciduous species - year 3 regen survey of the replant was done in 2017 - 707 TPA planted, 304 volunteer TPA (1011TPA) and non-target TPA 957. Recommend when re inventoried that it be determined whether this stand/planting needs any further treatments to ensure success of plantation. Could not update treatment steps through this process so am spelling it out in the MiFI stand specific comments and have entered a monitoring treatment for the stand to keep it on the radar prior to the re-inventory cycle.

152	310 - Herbaceous Openland	Nonstocked	1.7			No	
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Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low		Sapling
Red Maple	Low		Pole
Quaking Aspen	Low		Pole
White Pine	Medium		Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
153	42110 - Planted Red Pine	Sawtimber Well	13.0	65	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		5	Pole/Sap/Log	5	28	Red Maple	High	10 - 20 feet	Sapling
Red Pine		95	Log/Pole	10	65	Bigtooth Aspen	Medium	10 - 20 feet	Sapling
						Balsam Fir	Low	< 5 feet	Sapling
						Black Cherry	Low	5 - 10 feet	Sapling
						White Oak	Low	5 - 10 feet	Sapling
154	4130 - Aspen	Sapling Well	25.7	8		N/A	Stand regenerating to aspen quite well following harvest. Good diversity throughout, with white pine and red oak evenly distributed.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling/Pole	2		Red Maple	Low	5 - 10 feet	Sapling
Red Oak		10	Log/Pole	12		White Oak	Low	Variable	Sapling
Bigtooth Aspen		70	Sapling	1	8	White Pine	Low	Variable	Sapling
White Pine		10	Sapling	1		Black Cherry	Low	Variable	Sapling
						Witch Hazel	Low	5 - 10 feet	Tall Shrub
155	310 - Herbaceous Openland	Nonstocked	2.1			Unspecified			
156	42110 - Planted Red Pine	Sawtimber Well	3.3	63	141-170	N/A	retained from original stand as long term retention and some conifer thermal cover. dominated by red pine but white pine and aspen are a significant component.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole	6		Balsam Fir	Low	Variable	Sapling
Quaking Aspen		5	Pole	5					
Red Pine		85	Log/Pole	10	63				
White Pine		5	Log/Pole	10					
157	4112 - Maple, Beech, Cherry Association	Sawtimber Well	18.1	86	81-110	N/A	lower quality red maple/beech dominated stand with overall lower BA of merchantable sized trees. scattered hemlock throughout mainly in understory/intermediate canopy. Stand occupies transition zone between upland and lowland.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		75	Log/Pole	10	86	Red Maple	Low	Variable	Sapling
Yellow Birch		10	Log/Pole	10		Yellow Birch	Low	10 - 20 feet	Sapling
Beech		15	Log/Pole	10		Beech	Medium	10 - 20 feet	Sapling
						Hemlock	Medium	Variable	Pole
158	4130 - Aspen	Poletimber Well	163.0	38	51-80	N/A	aspen stand with white pine, red maple and cherry present throughout. stand is variable in terms of size with 6-8" being the overall average. some pockets where diameter of aspen is higher, if aspen is needed from this age class a portion of stand could be treated, ~40 acres would be the max recommended based on small overall size. understory consists mainly of red maple, balsam fir, white pine and scattered birch, sugar maple and hemlock.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		65	Pole/Sapling	6	38	Red Maple	Medium	Variable	Sapling
Bigtooth Aspen		20	Pole/Sapling	7	38	Balsam Fir	Low	Variable	Pole
Red Maple		10	Pole/Sapling	6		Balsam Fir	Medium	Variable	Sapling
White Pine		5	Pole	8		Hemlock	Low	Variable	Pole
						Black Cherry	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
159	429 - Mixed Upland Conifers	Poletimber Well	9.0	48	81-110	N/A	Traces of hemlock in sub canopy. white pine dominant, aspen growing fairly well throughout stand. hemlock in mid canopy with some small seedlings scattered along edge and in adjacent red pine plantation. standing water in spots. some blueberry and trace leather leaf in understory.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		40	Pole/Sapling	6	38	Balsam Fir		Medium
White Pine		45	Log/Pole	10	48	White Pine		Low
Hemlock		10	Log/Pole	10		Black Cherry		Low
Red Pine		5	Pole	8				
160	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	37.8	9	Immature	N/A	red pine growing well, 5-10' in height, stocking is good, deciduous species are definitely a component and will be as stand advances. red maple has been browsed heavily keeping its height in check, aspen is 10-20' in height and present in pockets. recommend closing treatments and allowing stand to advance as it will given the size of the red pine saplings and the other species present. Stand was clearcut under contract #610410901 (red pine project). Sale was completed June 2011. Stand is prescribed for trenching and replanting to red pine. Planted in 2012 - year 1 survey results unavailable. It was determined the site needs to be replanted but we should herbicide the site to reduce competition first. Site was release sprayed in 2013, replanted in 2014. The yr1 replant survey was completed in 2015 - 618TPA with 1-2 volunteer TPA, along with 534 TPA of deciduous species - year 3 regen survey of the replant was done in 2017 - 664 TPA planted, 86 volunteer TPA (750TPA) and non-target TPA 932. Recommend when reinventoried that it be determined whether this stand/planting needs any further treatments to ensure success of plantation. Could not update treatment steps through this process so am spelling it out in the MiFI stand specific comments and have entered a monitoring treatment for the stand to keep it on the radar prior to the re-inventory cycle.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		70	Sapling	2	9			
Bigtooth Aspen		10	Sapling	1				
Red Maple		10	Sapling	1				
White Pine		5	Sapling	1				
Black Cherry		5	Sapling	1				
161	4130 - Aspen	Poletimber Well	29.1	38		N/A	aspen stand with in some areas dense white pine and autumn olive in understory. overall small diameter, noticeably smaller in dbh and height than adjacent stand 158, note that stands were harvested at same time. recommend reviewing next yoe for potential harvest.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		95	Pole/Sapling	5	38	White Pine		Medium
White Pine		5	Pole/Sapling	5		Autumn Olive		Medium
162	310 - Herbaceous Openland	Nonstocked	6.6			No		
163	42200 - Natural White Pine	Sawtimber Well	5.0	85	81-110	N/A	Small white pine stand providing variability from surrounding aspen and e-type stands. Some standing water in portions of stand. White pine is fairly good quality, red maple is of ok quality. Recommend retaining stand long term to provide some structural diversity along with species diversity in this area.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		20	Log/Pole	10		White Pine		Low
White Pine		80	Log/Pole	11	85			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
164	4130 - Aspen	Poletimber Well	43.8	52		N/A	somewhat lower quality aspen stand, variable in terms of stocking and size/quality in spots. aspen seems to have stagnated with some mortality occurring specifically in quaking aspen. white pine understory is advanced in spots and will likely continue to be a major component of stand if overstory is removed. red maple present in understory, intermediate layer of canopy and in overstory. could consider treating all or portion of stand with final harvest, retaining individual trees along with small islands for retention. small overall diameter and low stocking would be reason to allow to go one more yoe.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Pole	7		Red Maple		
Red Oak		2	Log/Pole	12		Medium		
Quaking Aspen		20	Pole	8	52	Variable		
Bigtooth Aspen		63	Pole	8	52	Sapling		
White Pine		2	Log/Pole	10		Low		
Black Cherry		3	Pole	7		Variable		
						Sapling		
						5 - 10 feet		
						Tall Shrub		
165	4130 - Aspen	Sapling Well	20.9	8		N/A	Stand is regenerating well, good mix of aspen with a conifer component scattered throughout. Long term retention islands providing nice variation throughout stand and some vertical structure. Stand was harvested in fall of 2013 under tsale contract 011-12-01 by Dan Bundy Logging. -PC	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Oak		2	Log/Pole	12				
Quaking Aspen		15	Sapling	1				
Bigtooth Aspen		72	Sapling	1	8			
White Pine		8	Log/Pole/Sap	10				
Black Cherry		3	Pole	7				
166	4130 - Aspen	Sapling Well	26.5	8	Immature	N/A	Stand was harvested in fall of 2013 under tsale contract 011-12-01 by Dan Bundy Logging. -PC	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		65	Sapling	1	8			
Bigtooth Aspen		20	Sapling	1				
White Pine		10	Pole/Sapling	7				
Black Cherry		5	Pole/Log	8				
167	4130 - Aspen	Poletimber Well	19.0	52		N/A	fair quality aspen, some pockets of big tooth are very nice and larger dbh than the overall average. trembling aspen is smaller dbh overall and shorter height on average. white pine is decent quality. some larger trees present and a fair amount of regen working it's way up in the understory. red maple generally clumpy in nature. some decent red oak stems scattered throughout. could harvest portion or all of stand, adjacent regenerating stand that was originally part of this stand is growing well, expect same results from harvesting this portion.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		5	Pole	7		White Pine		
Quaking Aspen		38	Pole	8	52	Medium		
Bigtooth Aspen		40	Pole/Log	9	52	Variable		
White Pine		10	Log/Pole/Sap	10		Sapling		
Black Cherry		5	Pole/Log	8		Low		
Red Oak		2	Pole/Log	8		Variable		
						Sapling		
						5 - 10 feet		
						Tall Shrub		
						Sapling		
168	4311 - Pine, Aspen Mix	Sapling Medium	7.0	7	Immature	N/A	Slightly lower stocking than adjacent stand 41 which is also more uniformly aspen regen. Portions of this stand are marginally lowland. Stand occupies a drainage and margins.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		50	Sapling	1	7			
Quaking Aspen		50	Sapling	1	7			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
169	4130 - Aspen	Poletimber Well	8.5	58	Unspecified	N/A	Fair quality aspen stand - Stand has nice overstory and understory conifer component providing a great deal of cover for wildlife. Scattered oak saplings in understory along with some witch hazel.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		80	Pole/Log	9	58	Balsam Fir		
White Pine		10	Log/Pole	10		White Pine		
Red Maple		10	Pole/Log	8		Red Oak		
						Witch Hazel		
						Density		
						Avg. Height		
						Size		
170	4130 - Aspen	Sapling Well	7.2	7	Immature	N/A	aspen regenerating very well, 10-20' in height. Traces of red oak, sugar maple, and paper birch present in canopy.	
Canopy Species		% Cover	Size Class	DBH	Age			
Bigtooth Aspen		80	Sapling	2	7			
Red Maple		10	Pole/Sap/Log	6				
Balsam Fir		10	Pole/Sapling	6				
175	4112 - Maple, Beech, Cherry Association	Poletimber Well	13.1	70	81-110	N/A	Northern portion of stand was harvested under tsale contract 050-12-01, completed in fall/winter 2014 by Zoscsak Logging. What is now stand 175 is generally a bit smaller diameter and could benefit from one more entry period of growth before management.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		50	Pole	8	70	Beech		
Red Maple		35	Pole	7		Hemlock		
Basswood		5	Log/Pole	9		Ironwood		
Beech		5	Log/Pole	12				
Black Cherry		3	Pole	7				