



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61056

Entry Year 2023

Acreage: 3,068

County Grand Traverse

Management Area: Manistee River Valley

Revision Date: 2021-06-02

Stand Examiner: Patrick Cotant

Legal Description:

T25N – R9W – Sections 10, 15, 16, 20, 21, 22

Identified Planning Goals:

General management goals for this compartment are to provide timber products; maintain or enhance wildlife habitat; protect areas of unique character, threatened, endangered and special concern species; and provide for forest-based recreational uses.

Timber management goals include continuing aspen management to maintain early successional habitat for hunting and other wildlife related recreational opportunities, increasing regeneration of oak and a focus on increasing the red pine age class structure through final harvests of older stands and re-planting.

Soil and topography:

Rubicon with Rifle peat and Lupton muck in low areas. The area is level to very slightly rolling.

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

Ownership is private to the north and west with State Forest ownership to the south and east. There is light residential development around the compartment. There has been some relatively recent residential construction along the north and west along Sparling Road. Pugsley Correctional Facility (currently not operational) is located just west of the compartment in section 20.

Unique Natural Features:

There are a few small pothole lakes and bogs scattered throughout the compartment. No MNFI concerns listed in database - there are however pine barrens identified just outside of compartment boundary along the west edge of section 20.

Archeological, Historical, and Cultural Features:

None known, none identified in HAL database.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

There are several small pothole lakes and lowland depressions in Compartment 56. For timber treatments adjacent to these waterbodies, an adequate buffer should left in place to protect sensitive soils and to account for aesthetic concerns.

Wildlife Habitat Considerations:

A portion of this compartment (section 10 more or less) falls on a ground moraine. The ground moraine represents some of the better soils in this area. Consequently, farms and settlements have replaced presettlement northern hardwood dominated forests. The fraction of this land type association occupied by state lands and private forested lands, which have a history of management, represent an ecologically insignificant fragment of these landscapes. Existing mixes of oak/pine/aspen forest should be maintained with small patch cuts and thinnings, retaining snags and other habitat elements as much as possible. Tops should be left onsite, unchipped, and in scattered piles for habitat. Some succession to mature white pine forest would be desirable in the long run. Small bogs should be buffered from cuts to maintain adjacent cover.

The remainder of this compartment falls on a flat, excessively well drained outwash plain, which was historically prone to frequent burning and harbored mixed pine forests, barrens, and some components of oak, and hardwoods. This landscape should continue to be managed for a variety of successional stages of pine-oak-aspen forest and grass-shrub openings, with some mid to late successional forest in places. There is a successional momentum toward white pine over much of the compartment. Several stands could be allowed to gradually succeed to mixed white pine forest, while others should be set back through timber harvesting. Such harvesting should incorporate residual live trees (preferably in

patches), snags, brush piles, and some down logs to replicate within-stand habitat structure left after wildfires. Oak is a very important component of forests here and should be maintained or regenerated as much as possible. Prescribed burning will maintain barrens habitat in some stands. Pine plantations should incorporate tree species and structural diversity as much as possible. Future management of pine stands should consider incorporating small (2-5 acre) islands that are left relatively un-thinned within mature stands to provide winter roosting cover for turkeys.

Species associated with pine, oak and aspen mixed upland forests and openland habitats, such as badger, wild turkey, scarlet tanager, hog-nosed snake, ruffed grouse, Cooper's hawk, red-backed salamander, and gray squirrel will benefit from management here.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and an end moraine of coarse-textured till along the northwest edge. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Mississippian Marshall Sandstone and Coldwater Shale. The Marshall has been used as a building stone. The nearest gravel pits are in Sections 16 and 20. Gravel potential in the compartment is considered good, especially along the northwest edge. This area is located six miles southeast of the Guelph (Niagaran) reef trend. This Compartment and adjacent lands have been nominated for the May 2011 oil & gas lease auction. The Antrim Shale has not been developed in this area, and is probably too deep to be productive with current technology.

Vehicle Access:

Access to compartment area is good. Some forest trails are grown over and are generally considered abandoned to vehicle traffic. Some of these trails are eventually opened up for management activities. There are some RDR concerns within the compartment, these are currently in the RDR database and are unresolved at this time.

Survey Needs:

None known at this time.

Recreational Facilities and Opportunities:

North Country Trail and the Fife Lake loop/spur of the NCT, Shore to Shore Riding and Hiking Trail, MCCCT motorcycle trail, ORV Route, Boardman Valley Snowmobile Trail.

Fire Protection:

This compartment is located in a zone dispatch area for priority DNR response. The area is heavy to fire prone cover types such as jack pine, red pine, and pin oak. There are many roads and trails in this compartment which makes access easy and it is located near US 131, M-113, and M-186 which not only surrounds the compartment but also provides for rapid response from nearby DNR fire units in Traverse City, Manton, and Kalkaska. Local volunteer fire department coverage is provided by Grand Traverse Rural Fire volunteers from Fife Lake and Kingsley.

Additional Compartment Information:

The following reports from the Inventory are attached:

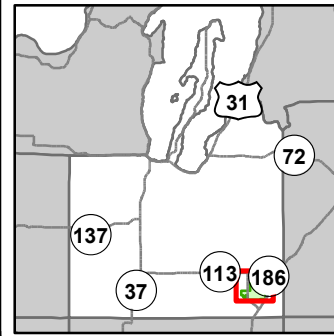
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

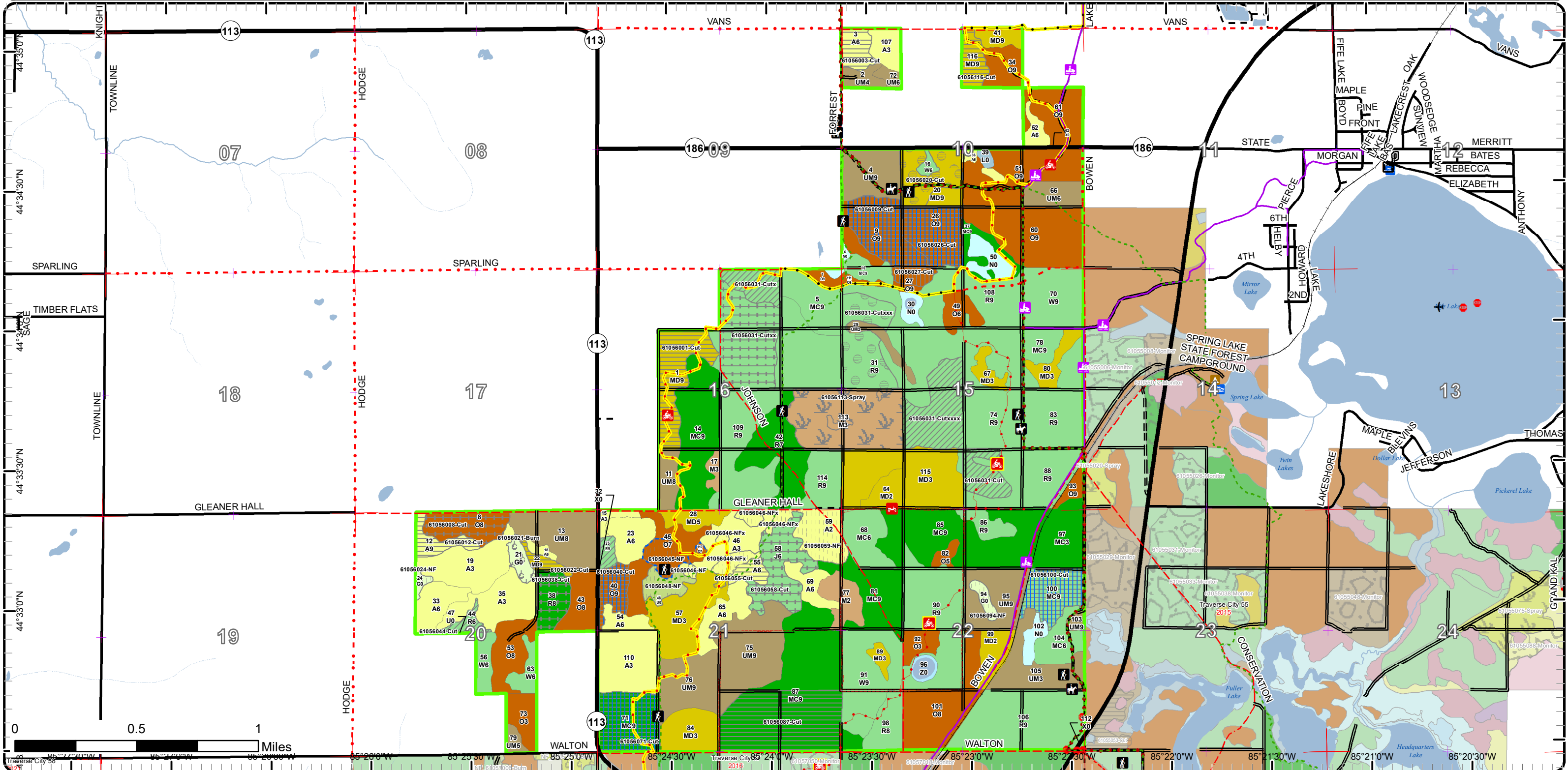
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 56
 T25N R09W 10, 15, 16, 20-22
 County: Grand Traverse
 Unit: Traverse City
 Mgmt Area: Manistee River Valley
 YOE: 2023
 Acres: 3068 GIS Calculated
 Examiner: Patrick Cotant
 Map Revised: 9/15/2021
 Map Phase: Post-Review

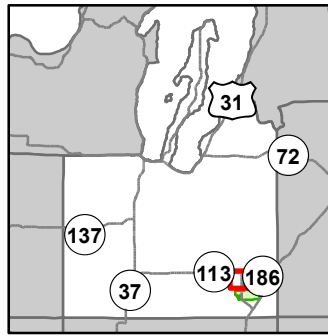


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|---|--|---|---|---|
| <ul style="list-style-type: none"> — Miris Corners — Remonumented Section Corners --- Counties == DNR - Secondary Forest Road == DNR - Forest Access Route — Federal / State Highway — Federal / State / County - Paved Road — Federal / State - Dirt / Gravel Road - - County - Gravel Road - - County - Dirt Road (Seasonal) - - Private - Dirt / Gravel Road — Active Railroads — Hiking Trails | <ul style="list-style-type: none"> — Horse Trails — Motorcycle Trails (DNR License) — MCCCT Trails — ORV Routes — Snowmobile Trails — Designated Hiking Trails — Designated Equestrian Trails — Designated Multi-Use Trails — ORV License — ORV License & Trail Permit — Designated ORV Route — Designated Snowmobile Trails | <ul style="list-style-type: none"> — Michigan Cross Country Cycle Trail (MCCCT) — Boating Access Site — Campground — Sign — Intermittent Stream — Lake/Pond — Perennial River — Lakes and Rivers — Compartment Boundary — Treatments with Site Conditions — Pesticide — Clearcut (w/Reserves) — Harvest, Overstory Removal | <ul style="list-style-type: none"> — Patch/Strip Cut (Femelschlag) — Prescribed Burn — Seed Tree (w/Reserves) — Thinning (Crown, Low, Systematic) — Shelter Wood (w/Reserves) — Opening Maintenance — 411 - Northern Hardwood — 412 - Oak Types — 413 - Aspen Types — 419 - Mixed Upland Deciduous — 421 - Planted Pines — 422 - Natural Pines — 430 - Upland Mixed Forest — 122 - Roads/Parking Lot — 310 - Herbaceous Openland | <ul style="list-style-type: none"> — 320 - Upland Shrub — 330 - Low Density Trees — 500 - Water — 622 - Lowland Shrub — 623 - Emergent Wetland |
|---|--|---|---|---|

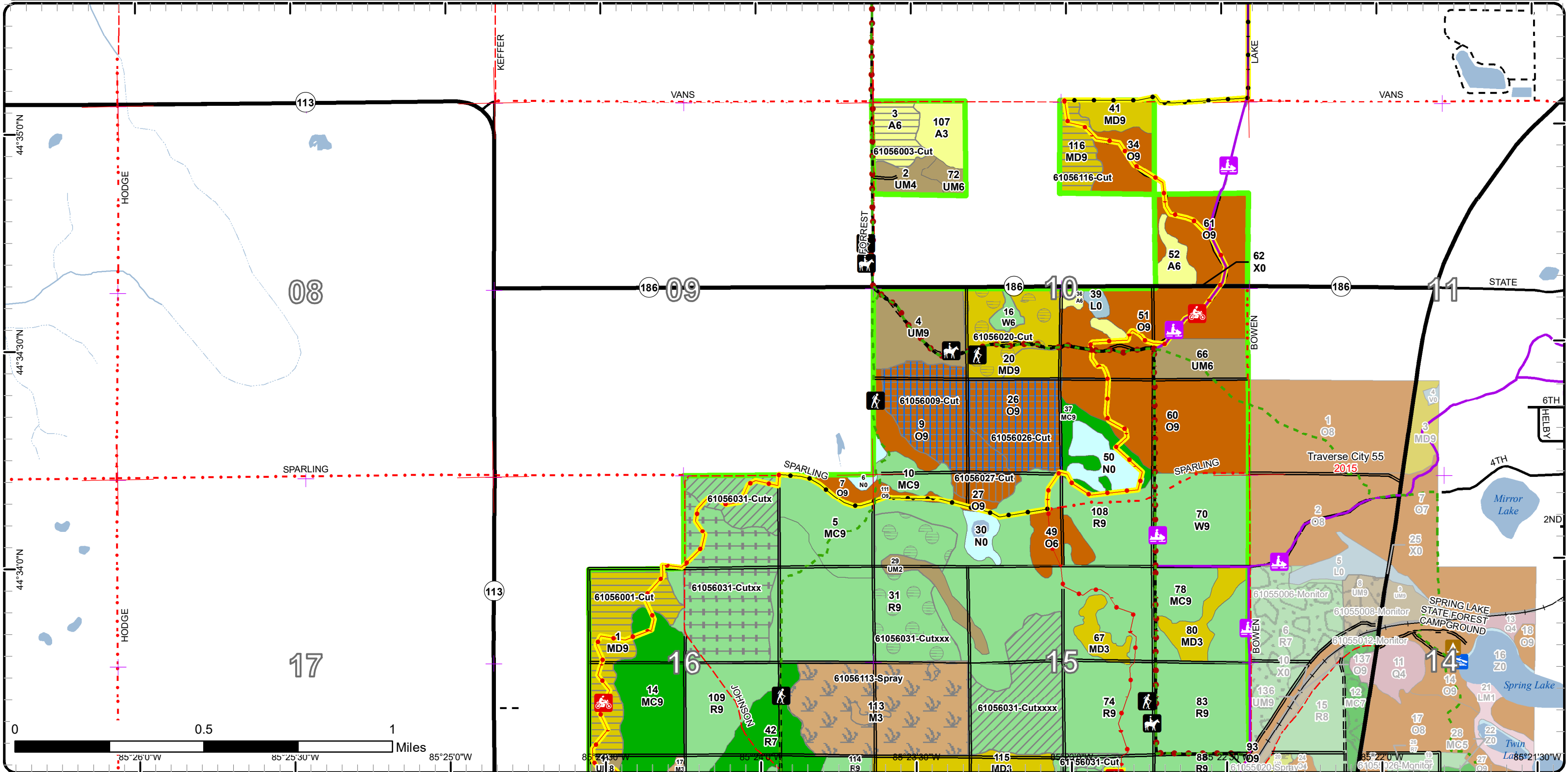


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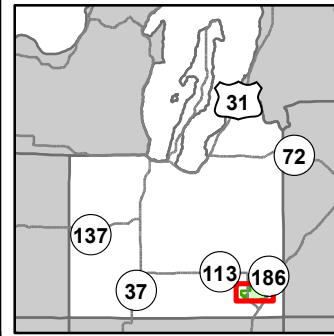


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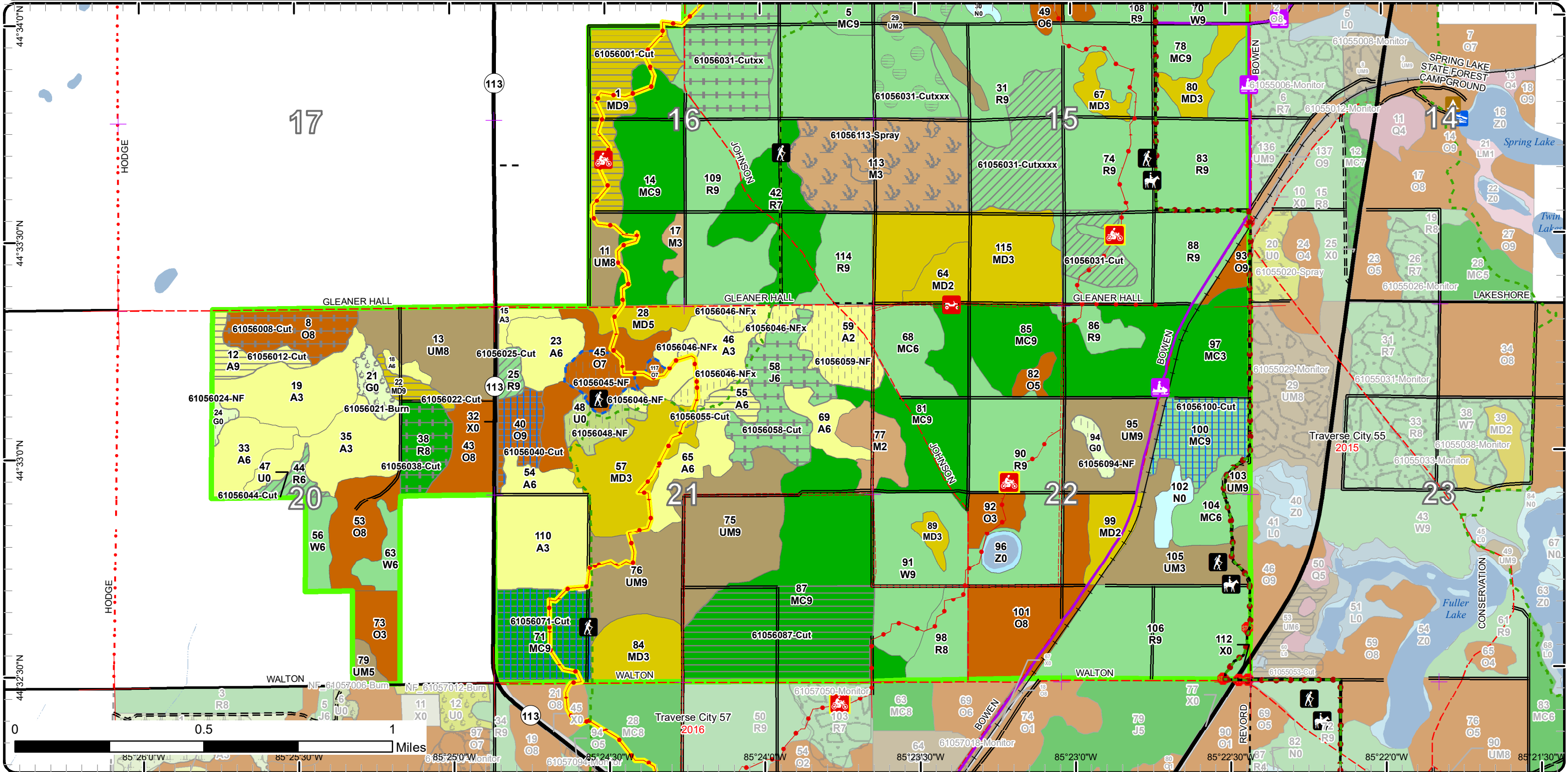


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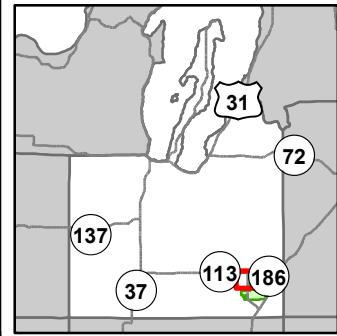


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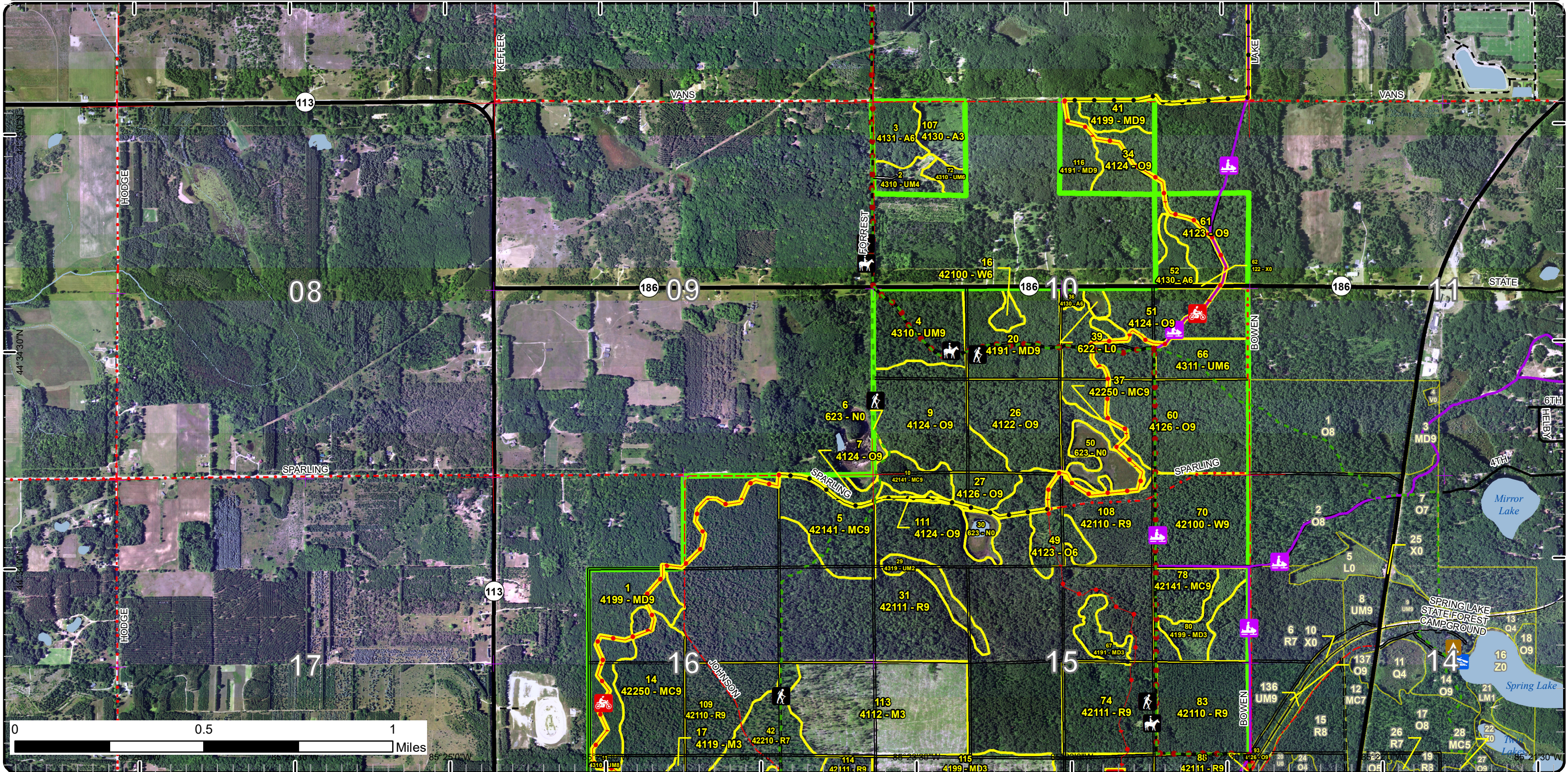


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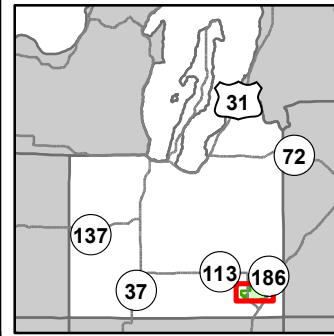


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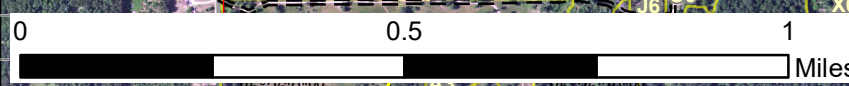
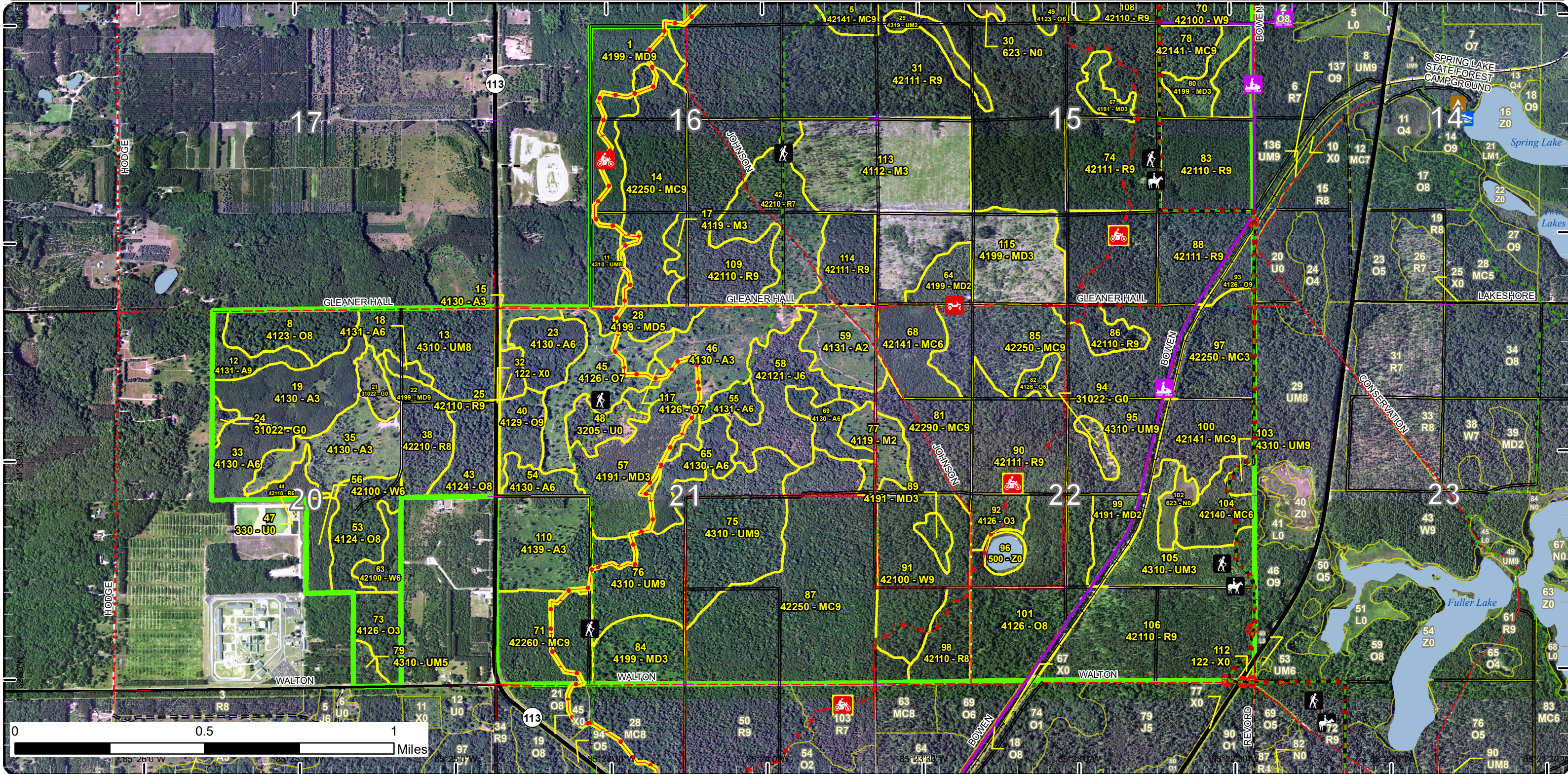
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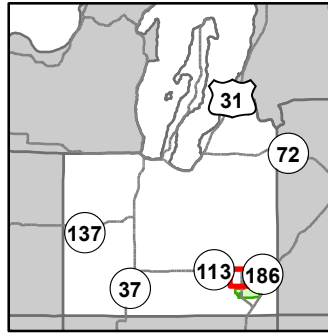
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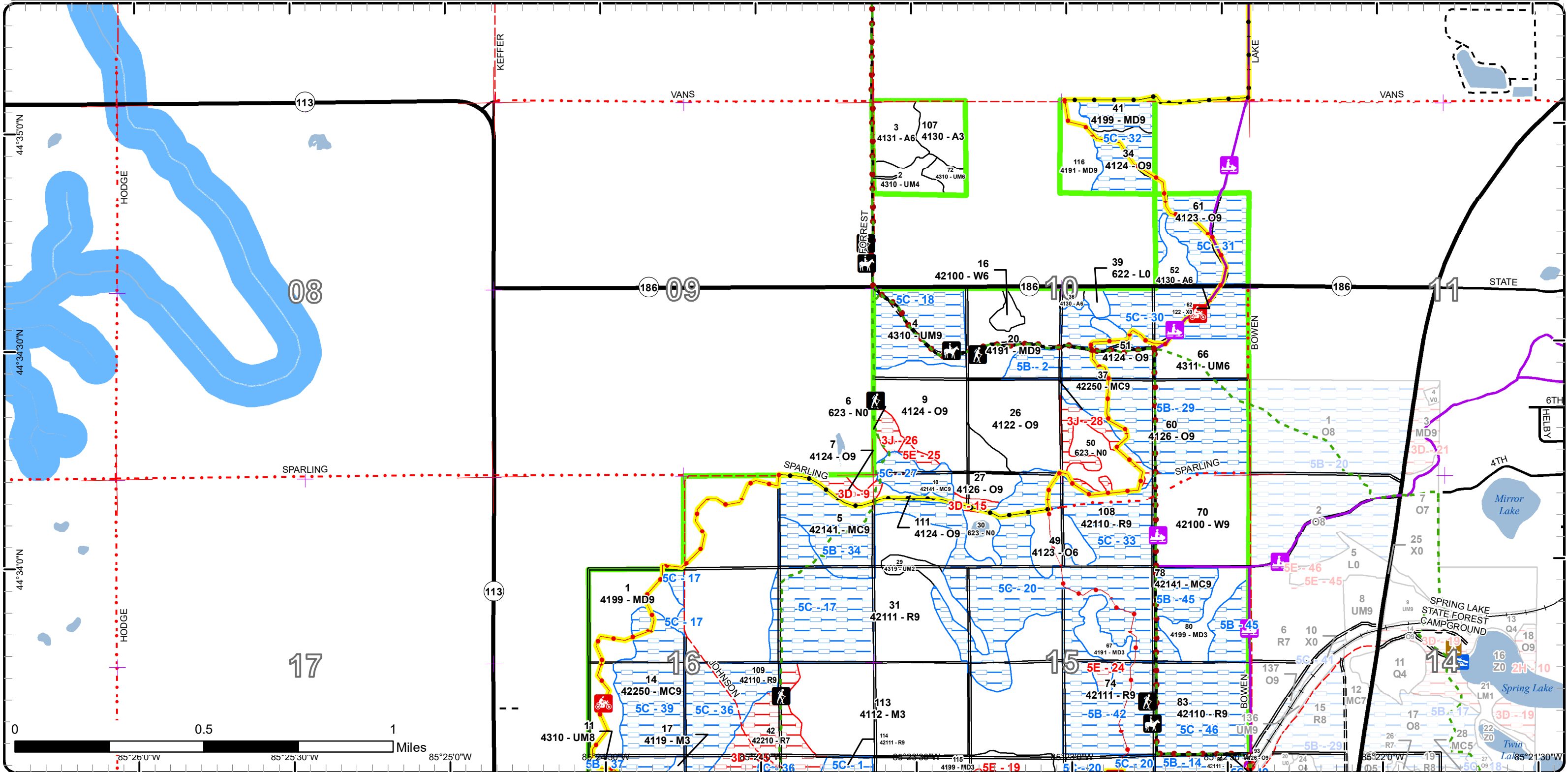


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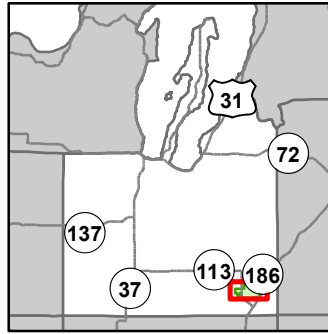


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- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- High Priority Trout Stream Buffer

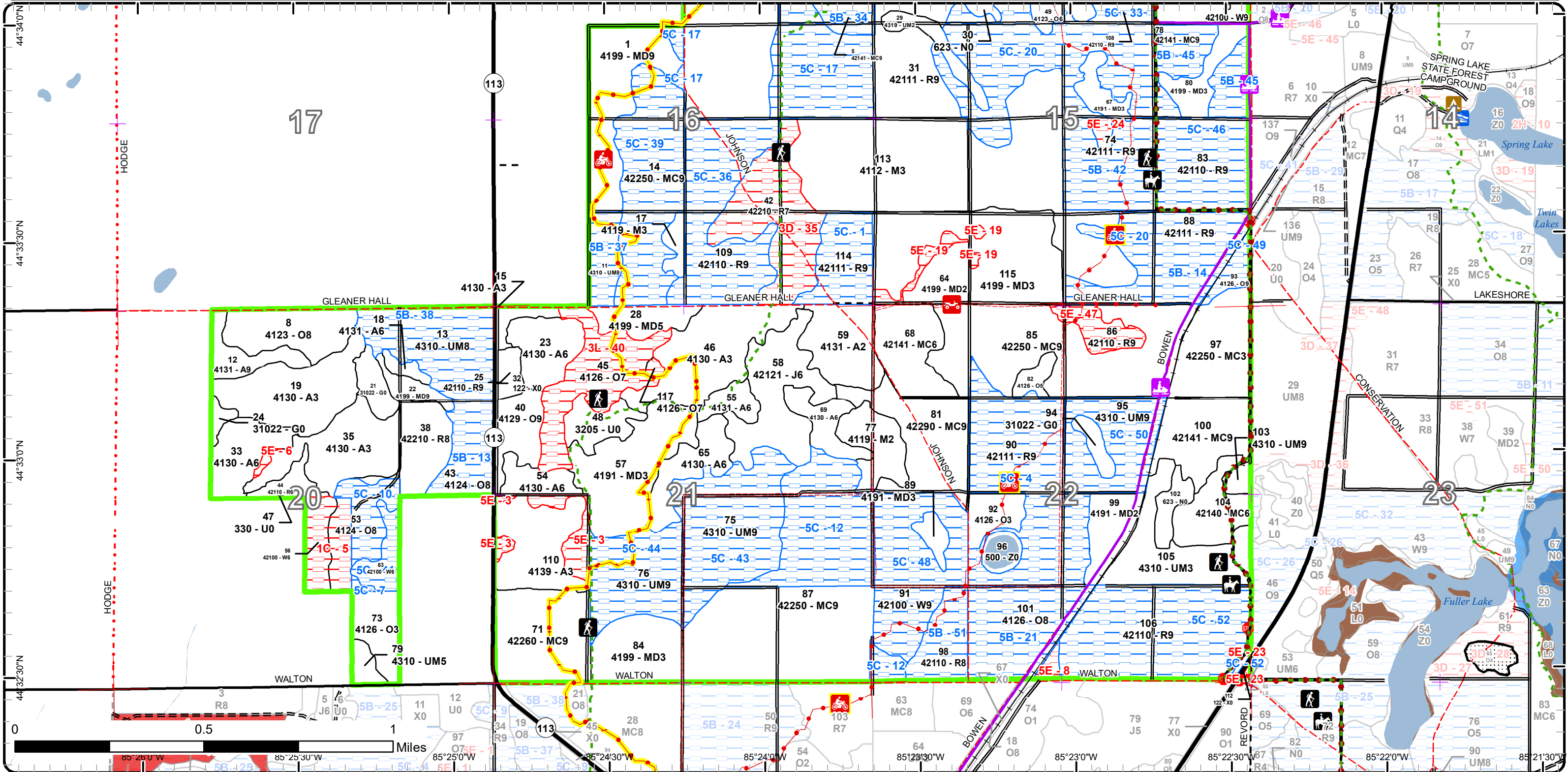


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- 1C: Other dept or div proc/practices
- 3D: Recreational / Scenic values
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- High Priority Trout Stream Buffer
- Wildlife Management Areas
- Unavailable



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	158	0	37	63	28	13	12	7	0	0	0	0	0	0	0	0	0	318
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Jack Pine	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	38
Low-Density Trees	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Marsh	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Mixed Upland Deciduous	0	90	0	55	29	12	14	6	39	36	0	0	10	0	0	0	0	13	304
Natural Mixed Pines	0	0	0	0	32	0	0	81	0	0	269	0	11	0	0	0	0	0	393
Northern Hardwood	0	89	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94
Oak	0	26	0	0	0	18	0	0	0	0	10	65	227	99	0	0	0	38	481
Planted Mixed Pines	0	0	0	0	44	0	0	0	0	0	68	27	0	0	0	0	0	0	139
Red Pine	0	0	0	0	0	6	0	5	0	0	588	222	0	0	0	0	0	0	821
Upland Mixed Forest	0	0	0	34	0	9	21	14	0	0	142	0	3	73	0	0	0	0	296
Upland Shrub	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	0	0	0	21	0	43	0	51	0	0	0	0	0	0	115
Total	72	363	0	131	168	73	48	139	84	79	1077	365	251	172	0	0	0	51	3071



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 56
Total Compartment Acres: 3,068

Commercial Harvest - 633
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	32	0	0	0	0	0	0	0	0	32
Jack Pine	0	0	0	0	0	38	0	0	0	38
Mixed Upland Deciduous	59	0	29	0	0	0	0	0	0	88
Natural Mixed Pines	77	0	0	40	0	0	0	0	0	117
Oak	0	0	0	85	7	0	25	0	0	118
Planted Mixed Pines	0	0	0	29	0	0	0	0	0	29
Red Pine	0	0	42	0	0	92	78	0	0	212
Total	168	0	71	154	7	92	140	0	0	633

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	633	0	0	0	8	70	0	0	78	788
Next Step	0	154	147	0	73	154	617	0	8	1152
Total	633	154	147	0	81	224	617	0	85	1940



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

1	61056001-Cut	39.3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	75	111-140	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest areas of stand where aspen is more uniformly dispersed, namely in northern 1/2 of treatment area. In remainder of stand, and along MCCCT trail, retain white oak and red pine and consider leaving some red oak depending on forest health concerns at time of sale preparation. Retention could also include some small islands scattered throughout treatment area, focused near trail and PVT interface. Place islands away from areas where aspen is concentrated in order to maximize aspen regen. Use appropriate specs to protect rec trails.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, oak, red and white pine and red maple.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
3	61056003-Cut	13.2	4131 - Aspen, Oak	Poletimber Well	50	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest aspen, retain some larger white pine and well formed white oak for stand diversity and also mast and seed production. Be conscious of NCT along west edge of stand, some retention should be focused in this area of stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Expect aspen, white pine, oak species and red maple.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
8	61056008-Cut	24.9	4123 - Red Oak	Sawtimber Medium	119	51-80	Harvest	Overstory Removal	4122 - Oak, Pine	Two-Aged	No
<p><u>Prescription</u> Remove all oak aside from a few scattered individuals for mast production with the goal of releasing existing regen and promoting oak stump sprout regeneration. Retain most if not all red and white pine for a seed source in the hopes that these species will continue to seed in and add diversity to stand, these trees will also provide some aesthetic relief.</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 /2022</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
9 61056009-Cut	37.7	4124 - Red with White Oak	Sawtimber Well	120	111-140	Harvest	Seed Tree with Retention	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Seed tree stand retaining 10-20 BA of white oak and conifers species for mast and seed source. In addition, retain some scattered islands</p> <p><u>Specs:</u> less than 1 acre/island throughout stand. Advanced regeneration should be protected as much as possible. Slope leading to wetland area in SW corner of stand has been excluded, determine at time of sale prep if more area is needed for slope protection.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> oaks, pines, red maple, aspen.</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 /2022</p>										
12 61056012-Cut	11.5	4131 - Aspen, Oak	Sawtimber Well	60	111-140	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Two-Aged	No
<p><u>Prescription</u> Final harvest stand, retaining some scattered larger diameter white pine along with some well formed oak trees for mast production. Treat in conjunction with adjacent stand 8.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, oak species, red maple and white pine are to be expected and are acceptable.</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 /2022</p>										
20 61056020-Cut	28.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	88	81-110	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4311 - Pine, Aspen Mix	Two-Aged	No
<p><u>Prescription</u> Treat area north of and southwest of NCT removing all oak and Aspen aside from retaining scattered good quality white oak - also retain clumps of larger white pine where aspen component is less abundant and white pine component is more uniform, leave red pine individuals and protect some white pine advanced regen/intermediate canopy where possible. Along NCT/equine, retain a higher percentage of overstory white pine and white oak within a 1/2 chain N and S of trail ROW.</p> <p><u>Specs:</u> Could make this a subunit and remove only aspen in this strip. On average ~10-20BA of residual overall would be appropriate with pockets lower and some areas where clumps of white pine are retained, a bit higher. Use appropriate sale specs to protect hiking/equine pathway.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Expect aspen, oak, white pine and red maple regen evenly distributed throughout.</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 /2022</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
21 61056021-Burn	7.9	31022 - Warm Season Grass	Nonstocked			Burn	Opening	31022 - Warm Season Grass		No
<p><u>Prescription</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting</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 /2022</p>										
22 61056022-Cut	6.1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	60	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, retaining most or all of red pine along with some of the larger white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, oak species, red maple and red and white pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
24 61056024-NF	2.8	31022 - Warm Season Grass	Nonstocked			NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> This opening is part of an MNFI barrens community. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
25 61056025-Cut	5.1	42110 - Planted Red Pine	Sawtimber Well	65	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin red pine removing approximately 1/3 of overall volume focusing on removing suppressed, forked or otherwise poorly formed individual trees.</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 /2022</p>										
26 61056026-Cut	33.6	4122 - Oak, Pine	Sawtimber Well	120	81-110	Harvest	Seed Tree with Retention	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Seed tree stand leaving 10-20 BA of a combination of white oak and conifer species. In addition, leave a few scattered islands of representative species throughout stand, less than one acre/island. Protect as much advanced regeneration as possible during harvest, with the goal being to release this regeneration while still retaining mast and seed sources. Treat in conjunction with stand 9, with essentially the same treatment method.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> oaks, conifer species, aspen and red maple.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
27 61056027-Cut	7.4	4126 - White, Black, N. Pin Oak	Sawtimber Well	96	111-140	Harvest	Shelterwood	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Shelterwood stand removing all red oak/n. pin oak trees and retaining white oak and conifers throughout. In areas where red pine poles are more prevalent, specifically in western area of stand attempt to release pine component by not retaining much of the oak component. BA of residual will be variable but should average approximately 30-40 sq ft/ac overall.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> regeneration of red maple, oak species and red pine is expected.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
31 61056031-Cut	18.3	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	96	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin red and white pine removing approximately 1/3 to 1/2 of overall BA focusing removal on suppressed, forked or otherwise poorly formed individuals. BA throughout stand 31 is variable with stocking ranging from 80-200+ sq ft/ac, this pocket is relatively fully stocked with BA's hovering in the 170-210 range. Retain some white oak for mast but otherwise most oak present should be removed, where removed might be good locations for canopy gaps within this treatment area. Use appropriate sale specs to protect MCCCT trail.</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 /2022</p>										
31 61056031-Cutx	18.0	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	96	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin red pine in this treatment area, starting BA averages 140-160 sq ft/ac, remove approximately 1/3 of overall volume focusing removal on suppressed, forked or otherwise poorly formed individuals. Remove all red/n. pin oak, retain and create canopy gaps around some scattered large crowned white oak for mast production. Protect MCCCT trail during timber sale operations with appropriate specs.</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 /2022</p>										
31 61056031-Cutxx	58.8	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	96	111- 140	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Remove overstory of red pine and oaks in order to release existing advanced regeneration of red maple and oak species. Retain scattered overstory trees of representative species including red pine and white oak, do not retain any merchantable red/n. pin oak. Some retention should be prioritized along MCCCT with higher residual being left directly adjacent to trail. In addition, treatment area should buffer Fife Lake Loop of the NCT by 1/2 chain or so with this area being excluded from treatment. 1-2 interior islands of red pine should be delineated as well for a seed source - these should be ~1 acre in size.</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 /2022</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
31 61056031-Cutxxx	42.3	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	96	111-140	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4310 - Pine, Oak Mix	Two-Aged	No
<p><u>Prescription</u> Treat stand by removing majority of oak species with the exception of some scattered, well formed white oak for mast production. In areas of treatment that are heavier to red pine, mark to thin red pine to release well formed individual trees while also allowing for operability and oak removal - some red pine may need to be marked in areas of stand where red pine density isn't that high for these same reasons.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak species, red maple, white pine, red pine and scattered aspen are expected and acceptable.</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 /2022</p>										
31 61056031-Cutxxx	44.5	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	96	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> This treatment area that is part of stand 31 while still variable has a higher average BA than the majority of the stand, averaging in the 160-180 sq ft/ac range with pockets higher and some areas a bit lower. Thin this treatment area removing approximately 1/3 to closer to 1/2 of overall BA. In areas where dense, advanced regeneration is present, open stand up a bit more to release this regen and monitor response. Focus removal on suppressed, forked or otherwise poorly formed individual trees. Adjust thinning technique in portions of stand where topography is significant but generally these areas should be excluded if deemed necessary during sale set up.</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 /2022</p>										
38 61056038-Cut	18.8	42210 - Natural Red Pine	Sawtimber Medium	94	51-80	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Remove red pine overstory, retaining scattered individual trees mainly along north, west and southern edges of stand. Encourage or require short wood operation with the intention being to limit damage as much as possible to existing advanced regeneration.</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 /2022</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
40	61056040-Cut	14.1	4129 - Mixed Oak	Sawtimber Well	115	81-110	Harvest	Seed Tree	4121 - Oak, Aspen	Two-Aged	No
<p><u>Prescription</u> Seed tree stand retaining white oak and white pine only as overstory retention for mast and seed production. Focus retention close to 113, retaining no more than 10-20 BA on average throughout stand area.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, oak species, red maple and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
44	61056044-Cut	6.3	42110 - Planted Red Pine	Poletimber Well	48	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Row thin red pine, remove aspen and other deciduous species where needed for operability otherwise retain to discourage regeneration.</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 /2022</p>											
45	61056045-NF	13.9	4126 - White, Black, N. Pin Oak	Sawtimber Poor	114	51-80	NonForestMgt	Brush Cutting	330 - Low-Density Trees		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . 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. Protect with wire cages or tubex. Considering adding native herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> This timber harvest was originally conducted to reduce canopy closure and promote a barrens type community. Much of the original stand has significant forest regen. The portion delineated by this treatment is likely still salvageable for opening management.</p> <p><u>Comment:</u> Use appropriate methods to protect recreational trail and its surface during project implementation.</p> <p><u>Site Condition</u> Wildlife Concerns</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
46	61056046-NF	2.1	4130 - Aspen	Sapling Well	7	Immatu re	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . 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. Protect with wire cages or tubex. Considering adding native herbaceous/forbs ground cover for wildlife food source.</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> This treatment delineates a poorly stocked part of the parent forested stand and displays multiple non-forested habitat components.</p> <p><u>Comment:</u> Use appropriate methods to protect recreational trail and its surface during project implementation.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
46 61056046-NFx	16.9	4130 - Aspen	Sapling Well	7	Immature	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . 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. Protect with wire cages or tubex. Considering adding native herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> This treatment delineates a poorly stocked part of the parent forested stand and displays multiple non-forested habitat components. Use appropriate methods to protect recreational trail and its surface during project implementation.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
48 61056048-NF	11.9	3205 - Mixed Upland Shrub	Nonstocked			NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . 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. Protect with wire cages or tubex. Considering adding native herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> This stand was treated last entry period under a hydro axe contract. Use appropriate methods to protect recreational trail and its surface during project implementation.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
55 61056055-Cut	7.4	4131 - Aspen, Oak	Poletimber Well	75	81-110	Harvest	Clearcut	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, retaining a couple large white oak for mast source. Also buffer Fife Lake NCT for aesthetics, treat with adjacent stand</p> <p><u>Specs:</u> 58. Recommend no area retention due to small size of stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen and oak with some white pine regen.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
58 61056058-Cut	37.6	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	79	51-80	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all jack pine and other merchantable overstory trees aside from red pine and larger white pine individuals that are present in order to release advanced regeneration, protect advanced regen where possible. Buffer Fife Lake NCT loop for aesthetics.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Expect oak, red maple, aspen, jack pine, red pine white pine to regenerate.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
59 61056059-NF	24.8	4131 - Aspen, Oak	Sapling Medium	7	Immature	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . 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. Protect with wire cages or tubex. Considering adding native herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other</u> This site was treated under a hydro axe contract last entry period.</p> <p><u>Comment:</u> Use appropriate methods to protect recreational trail and its surface during project implementation.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
71 61056071-Cut	39.7	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	90	141-170	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Harvest stand using a combination of island and individual tree (seed tree) retention, focusing retention areas near 113, the MCCCT trail and along the eastern edge near the Fife Lake Loop of the NCT. Island should be relatively small in size, ~an acre each with 5-6 scattered throughout stand, generally avoiding any of the areas where aspen is present in order to maximize that species regeneration. Individual seed tree retention should be white oak, white pine and red pine for mast and seed production purposes, with Approximately 10 BA or less retained on average throughout stand. Use appropriate VMS specs to protect rec trails.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> White pine, aspen, oak species, red maple and red pine.</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 /2022</p>										
87 61056087-Cut	76.9	42250 - Pine, Oak	Sawtimber Well	95	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest stand and replant to red pine. Stand should be chip harvested with a 1" spec on all trees. Potential for significant site prep exists for this stand to be successfully planted to red pine and requiring chipping is one step we can take to attain a more successful plantation. Buffer motorcycle trail in eastern corner of treatment area, also retain a few scattered trees along western edge of treatment area to account for aesthetics along ORV route. No area based retention in treatment area in order to be able to conduct aerial spraying for site prep. Retention will be applied throughout remainder of stand if/when treated.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);</p> <p><u>Treatments:</u> Pesticide, Aerial - Release; Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Red pine at plantation spacing. Oak, red maple and scattered jack pine are expected to regenerate as volunteers as well but should be controlled with herbicide spraying.</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 /2022</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
94 61056094-NF	5.1	31022 - Warm Season Grass	Nonstocked			NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . 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. Protect with wire cages or tubex. Considering adding native herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</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 /2022</p>										
100 61056100-Cut	29.1	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	95	111-140	Harvest	Seed Tree with Retention	4310 - Pine, Oak Mix	Two-Aged	No
<p><u>Prescription</u> Seed tree harvest stand retaining ~10 BA of a mixture of white oak, red pine and white pine evenly scattered throughout stand. In addition, retain a couple small islands along eastern edge for aesthetics along horse trail - within islands, all red oak species and jack pine should be removed. Protect rec trail along eastern edge using sale specs. Somewhat difficult hauling access, recommend establishing temporary skid/haul route to the NE through stand 29 in adjacent compartment 55. Stand has orange marked trees throughout from last YOE sale that was set up, did not sell and was withdrawn.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> white pine, red pine, oak species, red maple, aspen and jack pine are expected and acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
113 61056113-Spray	69.8	4112 - Maple, Beech, Cherry Association	Sapling Well	5	Immature	Pesticide	ERROR	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Aerial spray to reduce deciduous competition then plant red pine at plantation spacing. Trenches should be reevaluated after spraying. 3 small islands of advanced regen consisting of red maple, oak species, red pine and jack pine have been excluded from treatment area - regen in these islands is approximately 10-20' in height.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Sand was trenched, deciduous regen has established in much of stand area and is 3-5' tall on average. Recommend aerial spray at this time then immediate planting if trenches are still deemed acceptable.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
116 61056116-Cut	13.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	58	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest aspen and retain some good quality white pine and oak species, preferably white oak. Do not cut any hemlock regardless of size. Use appropriate retention and sale specs along snowmobile trail and near ORV/cycle trail that traverses stand but is not mapped in MIFI. Corners present needed to establish PVT boundary lines, SW corner is pin w/ cap buried ~6", should have pink flagging attached.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, white pine, red maple and oak species are expected.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										

Total Treatment
Acreage Proposed: **788.2**

Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant : Examiner

Compartment: 56

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		5B	5C	1C	3D	3J	3L	5E	
317	306	0	12	Aspen								12
16	16	0	0	Herbaceous Openland								
38	38	0	0	Jack Pine								
0	0	0	0	Low-Density Trees								
3	3	0	0	Lowland Shrub								
29	29	0	0	Marsh								
303	280	17	6	Mixed Upland Deciduous	7	10						6
393	266	116	11	Natural Mixed Pines	0	116			11			
94	94	0	0	Northern Hardwood								
481	166	254	60	Oak	132	122	9	7	4	38	2	
139	73	66	0	Planted Mixed Pines	56	10						
822	214	545	62	Red Pine	86	459		45				18
294	80	214	0	Upland Mixed Forest	54	160						
12	12	0	0	Upland Shrub								
6	6	0	0	Urban	0	0						0
6	6	0	0	Water								
115	43	61	11	White Pine		61	11					
3,068	1,633	1,272	163	Total Forested Acres	335	937	20	52	15	38	38	
	53%	41%	5%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Compartment: 56

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2	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	67	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	1C: Other dept or div proc/practices	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Pugsley Fence surrounds stand, was not supposed to be around this area of state land apparently?							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Mixture of red pine and oak species, excluded from most recent treatment in stand 106 to provide for area based retention.							

Report 4 – Site Conditions

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9	Unavailable	3D: Recreational / Scenic values	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5B: Maintain for regeneration purposes	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5B: Maintain for regeneration purposes	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3D: Recreational / Scenic values	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

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17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	111	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5B: Maintain for regeneration purposes	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Portion of stand 106 that was not treated - horse trail travels in area excluded from most recent treatment in stand 106 and US131.							

Report 4 – Site Conditions

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24	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5B: Maintain for regeneration purposes	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Patrick Cotant : Examiner

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30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	5B: Maintain for regeneration purposes	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	3D: Recreational / Scenic values	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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36	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	58	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Available	5B: Maintain for regeneration purposes	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	59	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	3L: Other wildlife concerns	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Potential for barrens burn by WLD on this stand in conjunction with stands or portions of to the east.							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant : Examiner

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42	Available	5B: Maintain for regeneration purposes	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
43	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	58	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Available	5B: Maintain for regeneration purposes	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
46	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Unavailable	5E: Long-Term Retention	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Rec trail and small wet areas within stand, along with steep topography.							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant : Examiner

Compartment: 56

Year of Entry: 2023

48	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
49	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
50	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
52	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	74	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	39.3	75	111-140	N/A	mixed stand of oak, Aspen and pine, Aspen seems to be more prevalent in Northern 1/2 of stand and red pine more common in Southern 1/2. overall quality is good, oak seems to be true red oak, white oak is fair quality. possible opportunity to regenerate Aspen and remove red oak especially with mortality pocket that is likely oak wilt in Southern portion of stand. consider treating by retaining some white oak and red pine, or with islands in which Aspen and red oak would be removed. protect white pine regen where possible. trail bisects stand as well which will need to be protected.																																															
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>35</td> <td>Log/Pole</td> <td>10</td> <td>75</td> </tr> <tr> <td>White Oak</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>25</td> <td>Pole/Log</td> <td>9</td> <td>75</td> </tr> <tr> <td>Red Pine</td> <td>15</td> <td>Log/Pole</td> <td>11</td> <td>75</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class		DBH	Age	Red Maple	15	Pole	7		Red Oak	35	Log/Pole	10	75	White Oak	10	Log/Pole	10		Bigtooth Aspen	25	Pole/Log	9	75	Red Pine	15	Log/Pole	11	75	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Witch Hazel</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling	White Pine	Low	Variable	Sapling	Witch Hazel	Low	5 - 10 feet	Tall Shrub		
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Possible pocket of oak wilt in some older red oaks near southwest corner of stand. See OFS for exact location.																																																						
2	4310 - Pine, Oak Mix	Poletimber Poor	8.8	66	1-50	N/A	previously typed as opening however there are white pine, red and white oak and red pine of varying sizes throughout much of stand area, albeit in generally low density. approximately 50% canopy cover on average. white pine and red pine saplings beginning to fill in much of more open area, along with understory of areas dominated by oak species.																																															
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3	4131 - Aspen, Oak	Poletimber Well	13.2	50	111-140	N/A	decent quality Aspen staff with oak and pine present throughout. central portion of stand is heavier to oak and pine. treat by final harvesting, retaining conifers and some scattered white oak for mast and seed. be conscious of nct along western edge of stand. ?Pocket of white pine log/pole plantation with white oak pole/log and some natural jack pine in se portion, should be separated. also contains small amount of red oak and bta. 80ba med stocked beech and red maple regen																																															
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4	4310 - Pine, Oak Mix	Sawtimber Well	31.1	120	111-140	N/A	mixed oak pine stand with pockets heavier to pine. nct runs through stand and trailhead is located in nw corner. regen is advanced in areas of stand with white pine, red maple and beech most numerous.																																															
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5	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	29.1	96	81-110	N/A	mixed stand of pine and oak resulting from past treatment - verify. some variability in stocking but generally 70-120 ba overall. understory is quite advanced throughout much of stand, any treatments will likely set a fair amount of regen back but stand may be a good candidate to treat to release regen and remove large, old oak and pine. or could retain stand as is for visual along fife lake spur of nct.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6 623 - Emergent Wetland Nonstocked 2.8 No

7 4124 - Red with White Oak Sawtimber Well 5.0 107 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	3	Pole	7	
Red Oak	43	Log	14	107
White Oak	25	Log/Pole	12	
Bigtooth Aspen	7	Log	16	
Red Pine	12	Log/Pole	12	
White Pine	5	Log	12	
Hemlock	5	Log/Pole	10	

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

oak pine stand originally part of stand 111, however this new stand is much more of a steep slope leading down to pond/wetland area, should be hard factored and retained. Also has a hemlock component on north facing slope.

8 4123 - Red Oak Sawtimber Medium 24.9 119 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	88	Log	16	119
White Pine	5	Log	14	
Red Pine	5	Log	14	
Sugar Maple	2	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	10 - 20 feet	Sapling
Bigtooth Aspen	Low	10 - 20 feet	Sapling
White Pine	Medium	10 - 20 feet	Sapling
Ironwood	Medium	< 5 feet	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub

red oak stand with red and white pine throughout, often concentrated in small pockets. trace sugar maple in northwestern portion of stand, also some Aspen along western edge of stand. understory consists mainly of red maple, white pine and ironwood. could do an overstory removal retaining conifer species in an attempt to regenerate oak via stump sprouts.

9 4124 - Red with White Oak Sawtimber Well 45.8 120 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	55	Log/Pole	14	120
White Oak	30	Log/Pole	12	
Red Pine	15	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Beech	Low	5 - 10 feet	Sapling
Bigtooth Aspen	Low	10 - 20 feet	Sapling
White Pine	Low	Variable	Sapling
Red Pine	Medium	>20 feet	Pole
White Oak	Low	Variable	Sapling

Oak overstory with pole sized red pine in the intermediate canopy. Dense regeneration in places from cut that took place 2 entry periods ago. Consider overstory removal or a shelterwood/seed tree harvest to release advanced regen and get some of the oak off the top. Very similar to adjacent stand to the east except that this stand has planted red pine dominating the sub canopy and the adjacent stand has planted white pine dominating the subcanopy.

10 42141 - Planted Mixed Pine, Mixed Deciduous Sawtimber Well 10.2 96 201+ N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	9	
Red Oak	5	Log	16	
White Oak	5	Log	14	
Bigtooth Aspen	5	Log	14	
White Pine	40	Log/Pole	12	96

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Witch Hazel	Medium	10 - 20 feet	Tall Shrub

mixed stand of red and white pine with oak present throughout much of stand. south 1/2 is white pine while northern 1/2 is dominated by red pine. could thin stand removing 1/3 of volume focusing removal on defected and low quality trees, in addition, remove all red oak species, retain some white oak. rr grade running diagonally through stand, also small wet pocket in center of stand on 40 line. See older management considerations.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
11	4310 - Pine, Oak Mix	Sawtimber Medium	12.7	96	51-80	N/A	dense deciduous regen throughout dominated by red maple. red pin, n pin and white oak make up canopy with red maple and other regen soon to be filling in gaps and be considered as canopy species. ba is variable ranging from 0-80. *compare with stanf 14 and cutting records, might be able to merge?																																													
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12	4131 - Aspen, Oak	Sawtimber Well	11.5	60	111-140	N/A	Aspen decent quality, growing fairly well, classified as log pole, just large enough on average to make this call. oak is in good condition, large diameter, large white pine scattered throughout. consider final harvest retaining scattered large white pine for aesthetics and some large crowned oak for mast production.																																													
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13	4310 - Pine, Oak Mix	Sawtimber Medium	41.7	125	51-80	N/A	Harvested under tsale contract 016-17-01 in late summer of 2018. Oak wilt was present within stand, all red oak was removed along with aspen, beech and any remaining live ash. All dead standing red oak was removed as well. Overall sub-canopy density is high.																																													
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14	42250 - Pine, Oak	Sawtimber Well	58.7	96	81-110	N/A	Stand was harvested in 03-04 and current stand is a pine oak mix with significant advanced regen throughout. Northern portion of stand has higher density of red pine while southern area contains more of a concentrated oak component, with red pine still distributed throughout. Overall average BA is in the 80-100 range. MCCCT trail passes through areas of stand along western edge.																																													
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15	4130 - Aspen	Sapling Well	4.5	7	Immature	N/A	stand seed tree harvested last year with oak and pine retention near 113, all Aspen removed. Aspen is regenerating well along with some oak species and red maple. white pine also present.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
16	42100 - Planted White Pine	Poletimber Well	3.3	88	111-140	N/A	Small pocket of relatively dense white pine, variable size but generally pole, small log. Stand lies in small draw, if adjacent stand 20 is harvested this stand will provide good aesthetic relief along 186 for surrounding harvest.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		3	Log	14		Red Maple		
White Oak		2	Log/Pole	12		High		
Bigtooth Aspen		10	Log	14		Variable		
White Pine		85	Pole/Log	9	88	Sapling		
17	4119 - Mixed Northern Hardwoods	Sapling Well	4.7	22	1-50	N/A	Small stand of deciduous regen with some overstory retention.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		50	Sapling	2	22	Red Maple		
White Oak		5	Sapling	2		Medium		
White Oak		5	Log	14		Low		
Northern Pin Oak		5	Log	14		Medium		
Northern Pin Oak		15	Sapling	2		10 - 20 feet		
Red Pine		10	Log/Pole	11	96	10 - 20 feet		
Black Cherry		10	Sapling	2		Sapling		
18	4131 - Aspen, Oak	Poletimber Well	3.1	30	Immature	N/A	Aspen stand just into pole size, typed spe is as pole sapling. growing well, red maple evenly scattered throughout.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		20	Sapling/Pole	3	30			
Red Oak		2	Sapling	2				
White Oak		18	Sapling	2				
Bigtooth Aspen		55	Pole/Sapling	5	30			
Black Cherry		5	Sapling	2				
19	4130 - Aspen	Sapling Well	36.6	21	Immature	N/A	Aspen stand growing well, other deciduous species scattered throughout in lower numbers. some 5-10' white pine regen present as well.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		18	Sapling	3	21			
Red Oak		2	Sapling	2	21			
Quaking Aspen		50	Sapling/Pole	4	21			
Bigtooth Aspen		20	Sapling/Pole	4	21			
Black Cherry		10	Sapling	2	21			
20	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	35.8	88	81-110	N/A	pine oak stand with some variability in species composition. overall decent quality, Aspen more prevalent in western and northern 1/2 of stand. Trace red pine scattered throughout stand. nct runs e/w through center of stand, consider treating entire stand or area north of and southwest of NCT removing all oak and Aspen aside from retaining scattered good quality white oak - also retain clumps of larger white pine where aspen component is less abundant, leave red pine individuals and protect white pine advanced regen and intermediate canopy white pine where possible. On average ~10-20BA of residual overall would be appropriate with pockets lower and some areas where clumps of white pine are retained, a bit higher.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Pole	7		Red Maple		
Red Oak		25	Log/Pole	12		Low		
White Oak		20	Log/Pole	10		Medium		
Bigtooth Aspen		15	Pole/Log	9		Variable		
White Pine		30	Log/Pole/Sap	10	88	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21	31022 - Warm Season Grass	Nonstocked	7.9			Managed Opening	Little bluestem, blueberry, sweetfern, poverty grass, cladonia, rice grass, Wild Bergamont, prairie willow, sedge, strawberry. NICE OPENING. Scattered black cherry, jack pine, quaking aspen, juneberry, white pine.
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22	4199 - Other Mixed Upland Deciduous	Sawtimber Well	6.1	60	111-140	N/A	mixed stand of Aspen, oak, red maple and red pine with scattered white pine. consider final harvest to regenerate deciduous species, retaining some scattered well formed red pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Log	8		Red Maple	Low	Variable	Sapling
Red Oak	22	Log	14	125	Red Oak	Low	< 5 feet	Sapling
White Oak	20	Log/Pole	12		White Oak	Low	< 5 feet	Sapling
Bigtooth Aspen	30	Pole/Log	9	60	White Pine	Low	Variable	Sapling
White Pine	2	Log/Pole	12					
Red Pine	6	Log/Pole	12					

23	4130 - Aspen	Poletimber Well	18.5	46		N/A	good density/stocking throughout, still quite a bit of variability in terms of size however. overall, for the age of this stand the overall average dbh is relatively low. 8" on average and 5-6 sticks. could treat thos year if age class acres are needed, if not consider waiting for more volume and treat next yoe.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	7		White Oak	Low	10 - 20 feet	Sapling
Bigtooth Aspen	80	Pole	8	46	White Pine	Low	5 - 10 feet	Sapling
Black Cherry	5	Sapling/Pole	3					
White Pine	5	Pole/Sapling	7					

24	31022 - Warm Season Grass	Nonstocked	2.8			No	Part of Pine Barrens ERA. Monitor for health of site and treat according to needs. Private land is adjacent.
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Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low		Pole
Bigtooth Aspen	Medium		Log

25	42110 - Planted Red Pine	Sawtimber Well	5.1	65	141-170	N/A	stand treated last yoe, responding well to thinning and overall good quality. could consider treating by thinning again. removing 1/3 of volume focusing on removal of defect and suppressed trees.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log/Pole	11	65	Red Maple	Medium	5 - 10 feet	Sapling
					Beech	Low	5 - 10 feet	Sapling
					White Pine	Low	5 - 10 feet	Sapling

26	4122 - Oak, Pine	Sawtimber Well	33.6	120	81-110	N/A	treated two entry periods ago with stands to the west and northwest, advanced regen of red maple, white pine and oaks present throughout much of stand understory. ba is variable but averages around 100. some decent quality white oak present, white pine is decent as well. trace beech in understory. could seed tree stand, leaving white oak and white pine for seed and mast source. protect all advanced regen.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	40	Log/Pole	12	120	Red Maple	High	10 - 20 feet	Sapling
White Oak	30	Log/Pole	12		Bigtooth Aspen	Low	10 - 20 feet	Sapling
White Pine	30	Pole/Log	9		White Pine	Medium	Variable	Pole
					White Oak	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
27	4126 - White, Black, N. Pin Oak	Sawtimber Well	9.7	96	111-140	N/A	oak stand with some red and trace white pine in canopy. overall fair quality, some oak decline and mortality. South and Western portion of stand has more of a pine component. if treated, could seed tree white oak, remove all red oak and focus on retaining and releasing pine where its density is higher.																																																								
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28	4199 - Other Mixed Upland Deciduous	Poletimber Medium	12.1	46	51-80	N/A	mixed stand of variable sized trees with stocking variability ad well. in general overall stand size is small with some larger pin oak and white pine present.																																																								
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29	4319 - Mixed Upland Forest	Sapling Medium	8.8	46	1-50	N/A	Small, generally linear stand lying in valley and surrounded by tall/large red pine. Small trees are present but generally vigor is indicative of frost pocket with some mortality present. Bumped stand to pole size, albeit overall quite small in average dbh. See management comments.																																																								
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30	623 - Emergent Wetland	Nonstocked	6.5			No	add water as separate stand																																																								
31	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	345.2	96	111-140	N/A	This is a large area dominated by red pine that was planted in 1925. There exists significant variability throughout stand resulting from past treatments with some areas having higher stocking, a lighter understory and few deciduous species present in the overstory while other portions have lower stocking with more significant advanced regen present and more overstory oak species evenly distributed throughout. Furthermore there are portions of stand where the prevalence of white pine is significant, most notably in the southernmost 40.																																																								
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32	122 - Road/Parking Lot	Nonstocked	4.1			No																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
33	4130 - Aspen	Poletimber Well	18.8	31	Immature	N/A	decent quality big tooth Aspen stand, small pole sized on average with pockets of slightly higher dbb as well as areas more dominated by saplings. considering size variability and smaller overall average recommend treating next yoe by final harvesting to regenerate Aspen.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		15	Sapling/Pole	4	31	Red Maple		
Quaking Aspen		20	Pole/Sapling	5	31	Medium		
Bigtooth Aspen		55	Pole/Sapling	6	31	Variable		
Black Cherry		10	Sapling/Pole	3	31	Low		
						Sapling		
34	4124 - Red with White Oak	Sawtimber Well	16.5	115	111-140	N/A	oak/pine stand with Aspen present along western edge and scattered throughout remainder of stand in low numbers. white pine regenerating fairly well in portions of understory. stocking and size variability in portions of stand, along with variability in species composition throughout. Separated potion of stand that was heavier to white pine/aspen, treating that area this YOE. Consider treating this stand next YOE to break up treatments along snow trail and increase age diversity in this area of the compartment.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Pole/Log	8		Red Maple		
Beech		2	Pole	8		Medium		
Red Oak		50	Log/Pole	12	115	Low		
White Oak		20	Log/Pole	12		Variable		
Bigtooth Aspen		6	Pole/Log	8	58	Medium		
White Pine		10	Log	14		Low		
Red Pine		2	Log	14		Variable		
						Pole		
35	4130 - Aspen	Sapling Well	33.8	8	1-50	N/A	regenerating well overall, some area of significant browse on red maple sprouts but not too extensive in terms of area. lots of wildlife use throughout. white pine was retained and is in fine shape. Stand was harvested in winter of 2014 under tsale contract 057-13-01 by Mulberg FP/PCA. -PC	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		2	Log	16		White Pine		
White Oak		2	Log	14		Low		
Bigtooth Aspen		84	Sapling	1	8	Variable		
White Pine		10	Log	12		Low		
Red Pine		2	Log	12		Sapling		
36	4130 - Aspen	Poletimber Well	4.1	31	Immature	N/A	Small multi-part aspen stand, variable size with pole and sapling sized trees present but determined average dbh to be in line with pole size class, albeit small pole.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		100	Pole/Sapling	5	31	White Pine		
						Low		
						Variable		
						Sapling		
						Black Cherry		
						Low		
						< 5 feet		
						Sapling		
37	42250 - Pine, Oak	Sawtimber Well	11.4	111	81-110	N/A	New stand separated from stand 26. This stand area occupies slopes leading to lowland bog stand 50. Consists of mixed pine and oak, some large individuals present. Recommend retaining long term for aesthetics and water quality/sensitive soil issues.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		15	Log/Pole	12		Red Maple		
White Oak		15	Log/Pole	12		Low		
White Pine		55	Log/Pole	10	111	10 - 20 feet		
Red Pine		10	Log	13		Medium		
Red Maple		5	Pole/Log	8		Variable		
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						5 - 10 feet		
						Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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38	42210 - Natural Red Pine	Sawtimber Medium	18.8	94	51-80	N/A	red pine retained and Aspen, red maple and some oak are regenerating densely throughout understory or mid canopy as its represent in canopy table. removing overstory red pine would be difficult without sacrificing advanced regen but should be removed while still viable. could consider this yoe or next.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		94	Log/Pole	11	94	Bigtooth Aspen		High	10 - 20 feet	Sapling	
Red Oak		2	Log	12		Red Maple		High	10 - 20 feet	Sapling	
White Pine		2	Log	12		Red Oak		Medium	10 - 20 feet	Sapling	
White Oak		2	Log	12		White Oak		Medium	10 - 20 feet	Sapling	

39	622 - Lowland Shrub	Nonstocked	2.6			No	
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40	4129 - Mixed Oak	Sawtimber Well	14.1	115	81-110	N/A	mixed stand of oak with pine component along with Aspen clones of variable size, average pole size but definitely some areas of small poles and large saplings, same goes for red maple component. with proximity to 113, stand would be a good candidate to seed tree or shelterwood for aesthetic purposes, while also getting Aspen regen where clones are present. if treated, remove all red oak species.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		20	Pole/Log	8		Red Maple		Medium	Variable	Sapling	
Red Oak		25	Log	16	115	White Pine		Low	Variable	Sapling	
White Oak		38	Log/Pole	12	115	Witch Hazel		Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		12	Pole	8		White Oak		Medium	Variable	Sapling	
White Pine		5	Pole	9							

41	4199 - Other Mixed Upland Deciduous	Sawtimber Well	9.6	110	81-110	N/A	mixed deciduous stand with pine scattered throughout. trace Aspen present. Vernal pond in center portion of stand and spring/seep along vans rd. stand was thinned 3 entry periods ago. regen is advanced and well established. could treat by removing all beech and majority of larger red oak and red maple. retain pine component and scattered white and red oak, exclude areas surrounding wet areas.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		21	Log/Pole	10		Red Maple		High	10 - 20 feet	Sapling	
Beech		20	Log/Pole	12		Beech		Medium	10 - 20 feet	Sapling	
Red Oak		35	Log	16	110	White Pine		Low	Variable	Sapling	
White Oak		20	Log/Pole	12							
Red Pine		2	Log	15							
Hemlock		2	Log/Pole	12							

42	42210 - Natural Red Pine	Sawtimber Poor	44.7	99	1-50	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Oak		20	Pole/Sap/Log	8		White Oak		Medium	5 - 10 feet	Sapling
Red Pine		80	Log/Pole	12	98	Northern Pin Oak		High	5 - 10 feet	Sapling
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
43	4124 - Red with White Oak	Sawtimber Medium	20.0	125	51-80	N/A	mixed stand of oak and pine, thinned 2 entries ago. regeneration is advanced and good quality, will be difficult to remove overstory at this time without sacrificing a significant amount of the regen present, similar to adjacent stand to the west.																																																		
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44	42110 - Planted Red Pine	Poletimber Well	6.3	48	171-200	N/A	R6 stand, has not been thinned. previous inventory says not yet 3 sticks however majority of stand is 5-6 sticks with 8" average dbh, with the exception of portions of the southernmost rows where aspen is more prevalent and red pine size is generally smaller. third row thin this entry period.																																																		
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45	4126 - White, Black, N. Pin Oak	Sawtimber Poor	36.7	114	51-80	N/A	Treated last YOY with a seed tree/shelterwood harvest. Regen is filling in well in some spots and is sparse in other areas of the stand. Overstory trees that were retained are in good shape and producing good crops of acorns. Some browse on regen in places.																																																		
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46	4130 - Aspen	Sapling Well	41.1	7	Immature	N/A	stand regenerating well overall with Aspen, red maple, jack pine, cherry, white pine and oak present throughout. merge with 45, both have same characteristics in terms of stocking and species composition. Stand treated under tsale contract 031-13-01, residual trees were marked to leave along NCT which travels along east edge of stand. Also some minimal residual scattered throughout stand.																																																		
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47	330 - Low-Density Trees	Nonstocked	0.4	0		No	Narrow sliver along Pugsley fenceline. Low density oak and red maple present along with some red and white pine.																																																		
48	3205 - Mixed Upland Shrub	Nonstocked	11.9			No	New stand added. Hydro-axed via contract in summer of 2018.																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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49 4123 - Red Oak Poletimber Well 12.8 40 51-80 N/A small diameter pole stand of mixed species, composition variability throughout. overall fair quality, some areas more open than others.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	45	Pole/Sapling	5	40
White Oak	15	Pole/Sapling	6	40
Quaking Aspen	5	Pole/Sapling	5	
Red Pine	10	Sapling/Pole	4	
Jack Pine	10	Sapling/Pole	3	
Black Cherry	15	Sapling/Pole	4	

50 623 - Emergent Wetland Nonstocked 12.9 No

51 4124 - Red with White Oak Sawtimber Well 53.4 110 111-140 N/A oak pine stand with oak dominant overall but understory shows stand is converting to white pine. nct runs through center of stand e/w, needs to be protected in any treatments regime. could thin area along trail and the sw portion of stand and do more of a seed tree in remainder to release existing regen and get oak stump sprouts. snow trail would also need protection where it runs through stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	55	Log	14	110	Red Maple	Medium	5 - 10 feet	Sapling
White Oak	32	Log/Pole	11		Red Oak	Low	Variable	Sapling
White Pine	10	Log/Pole	13		White Pine	Medium	5 - 10 feet	Sapling
Red Pine	3	Log	16		Beech	Low	5 - 10 feet	Sapling

52 4130 - Aspen Poletimber Well 6.9 31 Immature N/A Small a6 stand, just transitioning to pole sized on average, with some size variability throughout.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Sapling/Pole	4		White Pine	Medium	< 5 feet	Sapling
Bigtooth Aspen	65	Pole/Sapling	5	31				
Black Cherry	10	Sapling	3					

53 4124 - Red with White Oak Sawtimber Medium 24.9 115 51-80 N/A overstory of red and white oak with mixed understory of Aspen, red maple and some oak regenerating well. prison fence now bisects stand. could consider oversfory removal at this point but this would sacrifice quite a bit of the advanced regen present at this time.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	78	Log	14	115	Red Maple	Medium	10 - 20 feet	Sapling
White Oak	20	Log	14		Red Oak	Low	Variable	Sapling
Red Pine	2	Log	11		White Oak	Low	Variable	Sapling
					Bigtooth Aspen	Medium	10 - 20 feet	Sapling
					White Pine	Low	Variable	Sapling
					Witch Hazel	Low	Variable	Tall Shrub

54 4130 - Aspen Poletimber Well 9.2 46 N/A fair quality Aspen stand with red maple component throughout. scattered white pine as well. looks to be same age as Aspen clones in stand to north, check cutting records and redraw stand lines if needed. red maple is clumpy, overall tree size is on the small size for age, consider treating next yoe unless more acreage is needed from age class.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	5		Red Maple	Medium	Variable	Sapling
White Oak	5	Sapling/Pole	3		White Pine	Low	Variable	Sapling
Bigtooth Aspen	70	Pole	7	46	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Pine	5	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
55	4131 - Aspen, Oak	Poletimber Well	7.4	75	81-110	N/A	old Aspen with larger oak throughout stand along with red maple and trace white pine. final harvest stand retaining a couple large white oak for mast source. treat with adjacent jack pine stand. buffer fife lake nct for aesthetics.																																																			
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56	42100 - Planted White Pine	Poletimber Well	11.0	67	171-200	N/A	planted white pine with red pine scattered throughout planting as well. same age. pugsley fence still encompasses stand and therefor access is limited. some lathe was present along fence line nesrby where it should end so maybe resolution is in the works?																																																			
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57	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	42.4	21	1-50	N/A	mixed stand dominated by Jack pine with Aspen and other deciduous species evenly distributed throughout. fair quality overall.																																																			
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58	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	37.6	79	51-80	N/A	overall generally variable in terms of size and stocking, jack pine averaging 4-5 sticks. deciduous species concentrated in Central, interior portion of stand but scattered throughout. significant understory in places with some areas of light overstory. could consider final harvest with jack pine, Aspen and red maple expected to regenerate along with oak. protect advanced regen where possible. retain red pine. buffer fife lake nct for aesthetics.																																																			
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59	4131 - Aspen, Oak	Sapling Medium	24.8	7	Immature	N/A	regenerating well, saplings getting above browse line and are generally in the 5-15' range overall. scattered overatory red pine, jack pine, white pine and oak present throughout. Stand was harvested under contract 031-13-01, some residual was marked to leave, most notably along trail in east of stand along with some individual trees marked throughout remainder of stand. Sapling class was featured in canopy.12/2/19 SG - Stand was treated via hydro-axe contract in summer 2017.																																																			
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60	4126 - White, Black, N. Pin Oak	Sawtimber Well	61.1	115	81-110	N/A	thinned last yoe, fair quality overall. stand us responding well to treatment with regen filling in and intermediate canopy white advancing into overstory. Stand cut under tsale contract 056-13-01 by AJD.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		25	Log/Pole	12	115	White Pine		High	Variable	Sapling
White Oak		55	Log/Pole	10	115	White Oak		Low	5 - 10 feet	Sapling
White Pine		20	Pole/Sap/Log	6						
61	4123 - Red Oak	Sawtimber Well	31.0	110	81-110	N/A	stand thinned 2 entry periods ago, overstory stocking now hovers around 100 or so. regen of red maple and white pine is advanced and doing fairly well being nursed along by oak shade. scattered white pine and trace red pine scattered evenly throughout stand. could treat with overstory removal or seed tree near snow trail and 186 for aesthetics and to retain mast source.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		73	Log	14	110	Red Maple		High	5 - 10 feet	Sapling
White Oak		15	Log/Pole	12		White Pine		Medium	5 - 10 feet	Sapling
White Pine		10	Log	14						
Red Pine		2	Log	12						
62	122 - Road/Parking Lot	Nonstocked	1.7			No				
63	42100 - Planted White Pine	Poletimber Well	9.8	67	171-200	N/A	decent quality white pine plantation, has not yet been thinned. consider treating this yoe by third row thin or take 2 leave 2 method. trace red pine and also scattered oaks mainly near perimeter.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Oak		5	Log/Pole	12						
White Oak		5	Log/Pole	12						
White Pine		90	Pole/Log	8	67					
64	4199 - Other Mixed Upland Deciduous	Sapling Medium	12.6	22	1-50	N/A	Stand harvested 2 entry periods ago, consists of small dbh deciduous regen with scattered jack and red pine.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		20	Sapling	2						
Red Oak		35	Sapling	2	22					
White Oak		20	Sapling	1						
Red Pine		5	Sapling	1						
Jack Pine		10	Sapling	2						
Black Cherry		10	Sapling	2						
65	4130 - Aspen	Poletimber Well	18.1	30	Immature	N/A	fair quality Aspen stand looks to have moved to pole size class with large sapling sizes represented as well. overall 5-6" average dbh.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Sapling/Pole	4		Red Maple		Medium	5 - 10 feet	Sapling
Bigtooth Aspen		83	Pole/Sapling	5	30	Northern Pin Oak		Low	5 - 10 feet	Sapling
White Pine		2	Pole	7		Witch Hazel		Low	5 - 10 feet	Tall Shrub
Black Cherry		5	Sapling	3						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
66	4311 - Pine, Aspen Mix	Poletimber Well	16.4	50	111-140	N/A	white pine dominant with Aspen distributed throughout. variable sizes present with pole size being most dominant. some larger red oak and red pine present as well. retain stand for now and evaluate next toe for conversion to aspen. nct traverses entire stand so aesthetics are of major concern with and mgmt.																																											
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67	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	8.2	30	1-50	N/A	Small pocket of mixed regen, mainly red/n pin oak. Growing fairly well, quite dense throughout much of stand. Will be small pole sized next yoe.																																											
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68	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	25.0	30	1-50	N/A	Planted red pine, natural jack pine, fair amount of n pin oak scattered throughout as well. found average of red and jack pine to be about 5" with quite a bit of variability throughout stand, some larger trees and some smaller. called stand pole sized but note that it is just in to pole sized category and overall is only 2 sticks in height on average. also difficult to determine but called red and jack pine evenly distributed but red pine may be slightly higher in terms of overall species composition.																																											
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69	4130 - Aspen	Poletimber Well	12.2	30	Immature	N/A	Small a3/a6 stand with some overstory oak present at perimeter of stand that were retained at the time of the last harvest. Stand growing well overall, called it pole sized but there is size variability and could be called sapling.																																											
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70	42100 - Planted White Pine	Sawtimber Well	40.1	80	111-140	N/A	good quality white pine throughout with deciduous species present evenly throughout as well, albeit in low numbers. some stocking variability but generally high ba throughout much of stand. regen is dense in much of understory and is advanced with much in the 10-30' range. could thin stand, do an overstory removal retaining some white pine to release regen. whatever treatment is done will be at the expense of much of the regen. ovrstory is in good condition and is high quality overall if determined to leave and allow regen to advance further. regen will stagnate at some point soon tho if it has not already.																																											
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71	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	39.7	90	141-170	N/A	<p>mixed stand of white and red pine with oaks, Aspen and red maple scattered throughout. as previous field notes say, there have been a few treatments on this stand in the past, and most recently the northern 40 was cut last yoe resulting in the a3 stand adjacent. aspen is not as prevalent in this portion of original larger stand. scattered clones throughout, not very extensive in size. fair amount of variable sized regen in understory.</p> <p>could potentially treat stand with a seed tree/island retention combination, leaving representative islands and individual tree retention near 113 and also adjacent to rec trail that bisects stand and the fife lake loop of the NCT that runs along the eastern edge of the stand. protect existing 1-4" regen wherever possible, open up stand near Aspen clones and rely on natural regen from stump sprouts. retain some larger white oak for mast, do not leave any n. pin, red, black oak.</p> <p>Stand contains a few pockets of older white pine that appear to be natural in origin even though the majority of the stand was planted.</p>																																																											
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72	4310 - Pine, Oak Mix	Poletimber Well	4.4	51	81-110	N/A	<p>Pocket of white pine (small) log/pole plantation with white oak pole/log and some natural jack pine in se portion, separated from stand 3 this yoe. also contains small amount of red oak and bta. 80ba med stocked beech and red maple regen</p>																																																											
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73	4126 - White, Black, N. Pin Oak	Sapling Well	15.1	5	1-50	N/A	<p>white pine scattered throughout in variable sizes, oak species present as sapling stump sprouts and saplings present prior to recent harvest. Stand cut under tsale contract 056-13-01. Scattered retention through stand area was left as residual.</p>																																																											
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74	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	39.0	100	81-110	N/A	<p>Stand looks good following recent treatment, check next yoe to see how regen is continuing to respond and consider further management at that time.</p> <p>Sale was cut under tsale contract 075-13 by Lutke FP. Small area was excluded from sale in northern central portion of sale for long term retention.</p>																																																											
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75	4310 - Pine, Oak Mix	Sawtimber Well	57.8	93	111-140	N/A	white oak and white pine overstory with 1-5" dense regen throughout resulting from a harvest 20+ years ago. density of overstory portion of canopy is variable with some areas having shelterwood characteristics while other portions of stand look like they were thinned. similar to many stands in the area any overstory removal will be at the expense of a lot of the regen present. if treated majority of oak and pine canopy should be removed in order to further release existing regen.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Oak		45	Log/Pole	10		Red Maple		High	10 - 20 feet	Sapling	
White Pine		55	Log	13	93	White Pine		High	10 - 20 feet	Sapling	
						Northern Pin Oak		Medium	5 - 10 feet	Sapling	
						White Oak		High	10 - 20 feet	Sapling	
76	4310 - Pine, Oak Mix	Sawtimber Well	37.4	92	111-140	N/A	white pine white oak stand, very few other species in canopy aside from trace red maple poles. both pine and oak species is are somewhat variable in size with logs and poles present. overall quality is decent. regen is patchy with some area uniformly dense and others somewhat sparse. could treat stand by overstory removal, retaining some islands and individual trees for aesthetics, seed source and vertical structure, releasing existing regen in the process.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Oak		49	Log/Pole	10		Red Maple		Medium	10 - 20 feet	Sapling	
White Pine		51	Log/Pole	11	92	White Pine		Low	10 - 20 feet	Sapling	
						Witch Hazel		Low	10 - 20 feet	Tall Shrub	
						White Oak		Low	5 - 10 feet	Sapling	
77	4119 - Mixed Northern Hardwoods	Sapling Medium	17.3	8	1-50	N/A	Stand treated under tsale contract 031-13-01, residual was marked to leave, mainly red and white pine with occasional deciduous species. Maple and oak regen dominant with some aspen and conifer regen present.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern Pin Oak		10	Sapling/Pole/Log	4		Red Maple		Medium	Variable	Sapling	
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Red Pine		5	Log	14	96	White Pine		Low	Variable	Sapling	
Red Maple		67	Sapling/Pole	2	8	Bigtooth Aspen		Low	5 - 10 feet	Sapling	
Bigtooth Aspen		10	Sapling	2							
78	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	26.6	100	81-110	N/A	oak pine stand with significant decent quality advanced regen throughout. ba/stocking is variable with some areas more dense and others a bit more open. species composition is also quite variable with pockets of pine and also areas of oak. pine pockets are generally higher ba. allow one more entry year on this stand for treatment in hopes that regen will dance enough that management does less damage.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		10	Log	14		Red Maple		Medium	10 - 20 feet	Sapling	
White Oak		30	Log	12	100	White Pine		Medium	Variable	Sapling	
White Pine		30	Log/Pole	12	100	White Oak		Medium	10 - 20 feet	Sapling	
79	4310 - Pine, Oak Mix	Poletimber Medium	4.8	64	1-50	N/A	Old strips of jack pine and red pine, deciduous regen filling in now along with white pine. Red pine retention left throughout but more heavily concentrated along Walton Rd. Stand was harvested under tsale contract 056-13-01. Scattered residual throughout stand was left as retention, including a significant amount of red pine along Walton rd.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Oak		35	Sapling/Pole/Log	4							
Northern Pin Oak		10	Sapling	1							
Red Pine		45	Pole/Log	9	64						
White Pine		10	Sapling/Pole	4							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
80	4199 - Other Mixed Upland Deciduous	Sapling Well	12.4	21	1-50	N/A	mixed deciduous and coniferous regen, dense throughout much of stand. Aspen clones along with dense pockets of pine, oak and red maple.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		10	Sapling	2			
Red Oak		40	Sapling	2	21		
White Oak		5	Sapling	2			
Bigtooth Aspen		5	Sapling	2			
Black Cherry		30	Sapling	2			
White Pine		10	Sapling/Pole	3			
81	42290 - Natural Mixed Pine	Sawtimber Well	36.6	96	81-110	N/A	mixed agenda with red pine dominant. advanced understory in much of stand area with oak regen dominant along with pockets of white pine and some red maple. n pin oak is declining as is jack pine. recommend oerstory removal retaining all white oak regardless of size and protecting regen 4" and less. in addition retain some red pine for aesthetics and a seed source as natural red pine regen is occurring near stand edges. residual should be less than 10ba overall with occasional pockets of red pine retained.
Canopy Species		% Cover	Size Class	DBH	Age		
Northern Pin Oak		20	Log/Pole	10			
White Pine		22	Pole/Log	8			
Red Pine		43	Log	14	96		
Jack Pine		13	Pole	7			
White Oak		2	Log/Pole	12			
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		Low	Variable	Sapling			
Northern Pin Oak		Medium	10 - 20 feet	Sapling			
White Pine		Medium	Variable	Sapling			
White Oak		Medium	10 - 20 feet	Sapling			
82	4126 - White, Black, N. Pin Oak	Poletimber Medium	4.9	45	1-50	N/A	Small pole/large sapling sized stand, some variability in stocking. See past comments, not sure if WLD is still interested in these management activities. If not allow to grow and reevaluate next yoe. SG 10/12/11 - Could hand fell the red maple and thin multi-stemmed oak down to one stem per stump.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		10	Sapling/Pole	4			
White Oak		40	Pole/Sapling	5	45		
Northern Pin Oak		30	Pole	5			
White Pine		5	Pole	6			
Black Cherry		15	Sapling	3			
83	42110 - Planted Red Pine	Sawtimber Well	38.1	100	111-140	N/A	very good quality red pine stand thinned last yoe and the previous entry period. oak regen along with some white pine regen advancing in understory ranging from 10-20' tall with areas quite thick, some pockets more open. Thinned under tsale contract 014-13-01.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		100	Log	14	100		
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		Medium	10 - 20 feet	Sapling			
White Oak		Medium	10 - 20 feet	Sapling			
Northern Pin Oak		Medium	10 - 20 feet	Sapling			
84	4199 - Other Mixed Upland Deciduous	Sapling Well	25.3	9	1-50	N/A	mixed stand with oak overstory along with some white pine and red pine areas. remainder/bulk of canopy is sapling/pole red maple and other deciduous species. stand was supposed to be burned and was to control red maple and other regen, rx burn had no effect on regen and now stand is fully stocked with regen coupled with overstory that was retained at time of harvest.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		51	Sapling/Pole	2	9		
Northern Pin Oak		8	Log	12	114		
White Oak		5	Log/Pole	10			
White Pine		8	Pole/Sapling	7			
White Oak		15	Sapling/Pole	2			
Black Cherry		5	Sapling	2			
Red Pine		8	Log	12			
Sub-Canopy Species		Density	Avg. Height	Size			
Witch Hazel		Low	5 - 10 feet	Tall Shrub			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
85	42250 - Pine, Oak	Sawtimber Well	81.2	68	51-80	N/A	mixed stand, responding fairly well to recent thinning, white pine and oak species are regenerating and existing advanced regen is doing well. Stand harvested under tsale contract 074-13-01 by Charlie Kitchen.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Oak		25	Log/Pole	13		White Pine	
Northern Pin Oak		10	Log/Pole	10	110	Witch Hazel	
White Pine		50	Log/Pole/Sap	12	68	White Oak	
Red Pine		15	Log/Pole	13			
Sub-Canopy Species		Density	Avg. Height	Size			
White Pine		High	Variable	Sapling			
Witch Hazel		Low	10 - 20 feet	Tall Shrub			
White Oak		Medium	Variable	Sapling			
86	42110 - Planted Red Pine	Sawtimber Well	11.1	96	111-140	N/A	small stand with seasonally wet depression in center, relatively large timber throughout dominated by red and white pine. past inventory says planted but this stand has a natural origin feel to it. recommend retaining long terms for visual along trail, soil protection and wildlife habitat.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		40	Log/Pole	12		White Oak	
Red Pine		60	Log/Pole	13	96	White Pine	
Northern Pin Oak						Northern Pin Oak	
Sub-Canopy Species		Density	Avg. Height	Size			
White Oak		Low	Variable	Sapling			
White Pine		Medium	Variable	Sapling			
Northern Pin Oak		Low	Variable	Sapling			
87	42250 - Pine, Oak	Sawtimber Well	133.8	95	81-110	N/A	mixed stand of pine and oak with red pine dominant, white oak and white pine evenly distributed throughout. regen is dense in areas, decent quality. multiple sizes of red pine with majority log size but a component of intermediate canopy variable sized poles. See management comments. could treat by overstory removal, similar to other nearby stands with same characteristics of large overstory and advanced regen, this will be at the expense of some of this regen. could also thin an area of the stand and do overstory removals on some of the adjacent stands. if final harvest and restart acres are needed a portion of this stand could be a candidate however significant site prep and release spraying are
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Oak		23	Log/Pole	12		White Pine	
Northern Pin Oak		10	Pole/Sap/Log	8		Northern Pin Oak	
White Pine		22	Log/Pole	12		Red Maple	
Red Pine		40	Log/Pole	13	95	White Oak	
Jack Pine		5	Pole	7			
Sub-Canopy Species		Density	Avg. Height	Size			
White Pine		Medium	10 - 20 feet	Sapling			
Northern Pin Oak		Medium	10 - 20 feet	Sapling			
Red Maple		Medium	10 - 20 feet	Sapling			
White Oak		Medium	10 - 20 feet	Sapling			
88	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	31.6	96	111-140	N/A	pine oak stand with red pine dominant throughout, scattered pockets where red pine density decreases and oak species are more prevalent. pin oak is mediocre in quality and showing signs of decline, variable stocking in many areas of stand as a result of past harvests, significant advanced regen in much of these more open areas - consider seed tree harvest leaving 10 ba of a combination of red pine and white oak, where red pine concentration is high could mark small clumps of trees or along snow trail for to account for aesthetics. leave trees will account for retention and also provide a seed/mast source. in majority of treatment area no more than 10 ba should be left. area between snow trail and rr grade should be treated by removing white pine and some or all of white oak.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern Pin Oak		20	Log/Pole	11	93	Red Maple	
White Oak		15	Log/Pole	11		White Pine	
Red Pine		65	Log/Pole	12	96	Witch Hazel	
White Oak						White Oak	
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		Low	Variable	Sapling			
White Pine		Medium	5 - 10 feet	Sapling			
Witch Hazel		Low	10 - 20 feet	Tall Shrub			
White Oak		Medium	10 - 20 feet	Sapling			
89	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	4.9	35	1-50	N/A	Area treated heavier than surrounding WP stand, some larger white pine retained in this gap and represented as one entry in canopy, larger white pine are same age as trees in stand 91 - 100 years old.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		10	Sapling	2			
White Oak		10	Sapling	2			
Northern Pin Oak		30	Sapling	2	35		
White Pine		32	Sapling	4	35		
Black Cherry		18	Sapling	2			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
90	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	67.2	100	81-110	N/A	red pine doing well following thinning last yoe. oak regen is beginning to establish in understory, some browse but generally in good condition. A relatively significant amount of pin oak was left after last harvest and is declining, could remove and thin areas of red pine that are higher density and for operability to get large crowned oaks out of stand if more acres are needed in this age class Stand was thinned under tsale contract 013-13-01, marked by contractors, majority of red/pin oak was removed but some still remains. BA hovers around 110 sq ft/ac.																																													
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91	42100 - Planted White Pine	Sawtimber Well	50.9	100	111-140	N/A	white pine stand with red pine, white oak and pine oak distributed throughout in lower numbers. white pine good quality as are other representative species. could thin or seed tree part of stand or conduct overstory removal and leave islands as a seed source along with some of the white oak for mast, attempting to protect some of the existing regen.																																													
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92	4126 - White, Black, N. Pin Oak	Sapling Well	10.5	4	1-50	N/A	regen doing well some browse but overall its in good shape. pine and white oak retention scattered throughout stand, represented with regen in canopy. Stand was harvested under tsale contract 013-13-01, essentially a seed tree with scattered pine and white oak marked to leave.																																													
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93	4126 - White, Black, N. Pin Oak	Sawtimber Well	6.1	105	81-110	N/A	Small oak stand bordered by RR right of way and compartment boundary. Nice vertical structure adjacent to replant area and MC3 stand to the south.																																													
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94	31022 - Warm Season Grass	Nonstocked	5.1			Managed Opening	Nice opening in slight frost pocket.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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95	4310 - Pine, Oak Mix	Sawtimber Well	33.5	96	111-140	N/A	mixed stand of oak and pine, with size and species composition variability throughout. some small pockets of jack pine, pin oak is in rough shape and declining. red pine more prevalent in Central and south eastern portion of stand. scattered Aspen throughout as well. could treat by final harvest to release existing regen while retaining some red pine, white pine and white oak, most notably along snow trail, or shelwood to nurse along oak sapling layer. area between snow trail and rr grade, remove all pin oak, retain conifers and some or all white oak.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Oak		14	Log/Pole	11		Red Maple		Low	Variable	Sapling	
Northern Pin Oak		40	Log/Pole	13	96	White Pine		Low	Variable	Sapling	
White Pine		25	Pole/Log	9		Witch Hazel		Low	10 - 20 feet	Tall Shrub	
Red Pine		15	Log/Pole	12	96	Northern Pin Oak		Low	Variable	Sapling	
Jack Pine		4	Pole	8		White Oak		Low	10 - 20 feet	Sapling	
Bigtooth Aspen		2	Pole	8							

96	500 - Water	Nonstocked	6.2			No	
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97	42250 - Pine, Oak	Sapling Well	31.7	30	1-50	N/A	very mixed stand of pine and oak regenerating with dense stocking. scattered red pine overstory trees that were retained, generally less than 10ba but some in more concentrated pockets. scattered pin oak poles and a few log sized trees in oversfiry as well.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Oak		10	Sapling	2							
Northern Pin Oak		20	Sapling/Pole/Log	3	30						
White Pine		35	Sapling/Pole	3	30						
Red Pine		10	Log	14	96						
Jack Pine		15	Sapling/Pole	3	30						
Black Cherry		10	Sapling	3							

98	42110 - Planted Red Pine	Sawtimber Medium	18.3	93	51-80	N/A	red pine stand with average ba in the 50-80 range with some pockets higher and some lower. red pine is sheltering a fully stocked oak understory of relatively good quality, recommend allowing red pine to continue to nurse along oak species.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		98	Log	12	93	White Oak		High	10 - 20 feet	Sapling	
White Pine		2	Log/Pole	10		Northern Pin Oak		High	10 - 20 feet	Sapling	
						White Pine		Low	5 - 10 feet	Sapling	
						Witch Hazel		Low	5 - 10 feet	Tall Shrub	
						Red Maple		Low	10 - 20 feet	Sapling	

99	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	15.5	30	1-50	N/A	Treated with stand 101, resulting stand consists of mixed deciduous saps/poles with some conifers scattered throughout.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Sapling/Pole	2	30					
White Oak		10	Sapling	2	30					
Northern Pin Oak		3	Log	12						
Northern Pin Oak		20	Sapling	2	30					
White Pine		10	Pole/Sapling	6						
Red Pine		2	Log	12						
Black Cherry		35	Sapling	2	30					
Scotch Pine		10	Sapling/Pole	3	30					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
100	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	29.1	95	111-140	N/A	mixed stand dominated by red pine. was marked and set up last yoe but did not sell. recommend treating again by overstory removal, retaining scattered red and white pine and some white oak in combination with retention in islands, to allow for oak and white pine understory to be released. also expect jack pine regen in spots. do not retain any red oak species.																																									
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101	4126 - White, Black, N. Pin Oak	Sawtimber Medium	50.5	100	51-80	N/A	ba is still relatively low after thinning 2 entry periods ago and regen is still filling in. overstory is in good condition in terms of health. quite a bit of variability in terms of stocking with some canopy gaps and shelterwood characteristics while other areas are more typical of a thinning.																																									
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102	623 - Emergent Wetland	Nonstocked	7.2			No	treed bog																																									
103	4310 - Pine, Oak Mix	Sawtimber Well	3.2	110	81-110	N/A	mixed oak pine stand, providing nice aesthetics along trail and near lowland area/kettle pond. see old comments, recommend to retain long term.																																									
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104	42140 - Planted Mixed Pine	Poletimber Well	18.8	30	1-50	N/A	mixed stand generally dominated by red pine. rows are not always uniform and there are areas where volunteer species are mixed in but overall doing well for a mixed stand. scattered overstory red, white pine and trace white oak log trees.																																									
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105	4310 - Pine, Oak Mix	Sapling Well	33.7	21	Immature	N/A	densely stocked stand of mixed regen, mainly oak, jack pine and redmaple.																																									
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106	42110 - Planted Red Pine	Sawtimber Well	78.0	102	111-140	N/A	red pine continues to respond well to thinning, growing well overall. white oaks and pin oak are quite high in density in understory ranging from 5-20' in height. trace white pine in overstory. Stand was thinned under tsale contract 003-13-01 by Woodstar FP in winter of 2014. Red pine density is approximately 100-130 BA with some variability where red oak trees were removed, most notably in the NW portion of the stand. This area contained red oak decline and thus it was determined that all red oak species should be removed and white oak would be left as a mast source. Edge retention was put in place near RR grade and along 131.																																										
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107	4130 - Aspen	Sapling Well	12.5	7	Immature	N/A	Aspen regenerating well, retained overstory in decent shape overall, some trees have toppled creating good wildlife cover. Stand was harvested in winter of 2014 under tsale contract 057-13-01 by Mulberg FP/PCA. -PC																																										
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108	42110 - Planted Red Pine	Sawtimber Well	36.7	96	111-140	N/A	responding fairly well to treatment, red pine growing well. ba is variable but averages 120 with pockets of 50-80 ba where larger oaks were removed. oak regen is beginning to fill in and advance and is quite a significant component in much of the understory. Part of original stand 31, was treated/thinned in the 2014-2015 under tsale contract 61-071-13-01 by Woodstar Forest Products.																																										
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109	42110 - Planted Red Pine	Sawtimber Well	58.4	99	81-110	N/A	stand harvested last yoe, red pin thinned with areas of advanced regen released and some canopy gaps placed around larger oaks. regen is in good condition and consists mainly of red maple and oak species. This is a large area dominated by red pine that was planted in 1925. There are small variations in the presence of oak sawlogs depending on previous treatments, however they exist only as a minor part of the stand canopy. Other areas are characterized by a fairly heavy presence of red maple and oak saplings, also resulting from previous treatments.																																										
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110	4139 - Aspen, Mixed Deciduous	Sapling Well	40.7	7	1-50	N/A	Stand was harvested in winter 2014 - white oak, white pine and red pine wqere marked to leave as residual. Aspen and red maple regenerating well, these species in sapling class were featured in canopy. (old comment) Stand contains a few pockets of older white pine that appear to be natural in origin even though the majority of the stand was planted.																																										
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111	4124 - Red with White Oak	Sawtimber Well	2.8	107	111-140	N/A	oak pine stand with Aspen more prevalent in eastern portion of stand. western area of stand is a steep slope leading down to pond/wetland area, should be hard factored and retained. operable portion could be treated with shelterwood/seed tree harvest, retaining larger red pine and white oak mainly for visual, and regenerating Aspen.																																															
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112	122 - Road/Parking Lot	Nonstocked	0.5	0		No	131 corridor.																																															
113	4112 - Maple, Beech, Cherry Association	Sapling Well	71.9	5	Immature	N/A	stand was not burned. roller chopping work was unsuccessful and now stand is full of deciduous regeneration. if red pine is to be planted, stand needs to be sprayed and monitored. full stocked at this time with 3-6' regen. Burn prescription for this stand was removed and it was determined that roller chopping would take care of existing stump sprout deciduous species and lessen slash enough to allow trenching and planting to be done successfully. Stand was originally part of large stand 31 to the north but was separated after being cut under tsale contract 61-036-13-01 in 2016. Stand is slated to be burned and then replanted to red pine.																																															
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114	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	23.4	96	111-140	N/A	Originally part of stand 31 to the north but is separated from it after treatments completed on stands 113 & 115. pine/oak dominated with red maple and oak understory, generally fully stocked. red pine is good quality, oak is fair with some mortality throughout stand. some. ariability is red pine stocking with pockets of lower BA.																																															
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115	4199 - Other Mixed Upland Deciduous	Sapling Well	65.1	5	1-50	N/A	stand regenerating well overall, regen is dense and while there is evidence of some significant browse, much of the saplings component is above browse level. red pine retention pockets in good condition as well. Portion of original stand 31, was cut in 2016 under tsale contract 61-036-13. Retention areas present, identified on map, scattered red pine were marked throughout sale as well and are represented as 10% of canopy.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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116 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 13.6 58 111-140 N/A

Separated from adjacent stand 34 due to higher concentration of aspen and white pine in this stand. Aspen is decent quality as is white pine, oak species still distributed throughout this stand, only in lower numbers than adjacent stand. Some areas that seem to have slightly higher water table with hemlock present and some hummocks, not significant in size though. Final harvest stand retaining some larger white pine along with some scattered oak, preferably white oak for seed and mast. Do not cut any hemlock regardless of size.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	8	
Beech	2	Pole	8	
Red Oak	13	Log/Pole	12	
White Oak	10	Log/Pole	12	
Bigtooth Aspen	30	Pole/Log	8	58
White Pine	30	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Beech	Low	Variable	Sapling
White Pine	Medium	Variable	Sapling
Hemlock	Low	Variable	Pole

117 4126 - White, Black, N. Pin Oak Sawtimber Poor 1.3 114 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	28	Log	16	114
White Oak	70	Log/Pole	12	114
Bigtooth Aspen	2	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	Sapling
White Pine	Low	Variable	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub
Northern Pin Oak	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	Medium	5 - 10 feet	Sapling