

Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61053

Entry Year: 2027

Acreage: 3,143

County: Grand Traverse

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Patrick Cotant

Legal Description:

: T26NR9W sections 19, 20, 21, 22, 23, 24

Identified Planning Goals:

This compartment is part of the Kalkaska Sandy Moraines (MA). Vegetative management in this management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including the Boardman River (a designated natural river) and the Sand Lakes Quiet area (a designated high conservation value area), threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management objectives for this 10-year planning period include improving the age-class structure of aspen; increasing regeneration of oak; working toward balancing the red pine age-class structure; continuing emphasis on managing the northern hardwood resource for stand quality, age, and species diversity; wildlife values; and continued production of wood products. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within this 10-year planning period are: increased recreational pressure, especially on the Muncie Lakes pathway, North Country and other established trails; increased oil and gas development; an increased wildland/urban interface; a need to restore oak/pine barrens communities; invasive plant control; and the conversion of poor oaks sites to mixed pine/oak sites. This compartment falls within land-type associations (LTAs) 2221, 5111, and 5549 of sub-subsection VII.2.2. LTA 2221, characterized by broad moraine ridges, few or no lakes, and well drained sand, occurs in the southeastern portion of the compartment. Circa 1800, 91% of the LTA supported northern hardwood forests of American beech and sugar maple. Wetlands were forested with various types of lowland conifers. The LTA has become quite fragmented with 19% consisting of various types with less than 5% cover. Cropland, now the most wide spread cover type, occurs on about 29% of the LTA with old fields occurring on another 13%. Pine forests, which occurred on only about 2% of the LTA circa 1800, now cover 20%; these are largely plantations. Northern hardwood forests also occur on 20% of the LTA, however this represents a significant reduction compared to circa 1800 acreage. LTA 5549, which occurs just along the northern edge of section 20, is a narrow outwash channel with very poorly drained peat and muck. Circa 1800, conifer swamps were the most common type (60%) in LTA 5549, with an additional 7% in hardwood/conifer and hardwood swamp. An additional 14% supported upland conifer types, including xeric jack pine and jack pine/red pine forest, as well as more mesic hemlock/white pine forest. Current land cover of LTA 5549 is a mosaic of lowland conifer, hardwood, shrub, and emergent swamp. LTA 5111, which occurs in the remainder of the compartment and is the dominant LTA, is a broad flat outwash plain with excessively drained sand and few lakes. LTA 5111 occurs in the southern three-quarters of the compartment. This LTA is a broad flat outwash plain with few kettle lakes and excessively drained sand. The circa 1800 vegetation of this LTA was variable but dominated by fire-dependent conifer forests, e.g. jack pine, red pine/white pine, and pine or oak/pine barrens. Calibri (Body) The LTA has become quite fragmented and 27% of its area supports cover types with less than 5% individual cover. Although 42% of the LTA still supports pine forests, much of this is red or jack pine plantation. Aspen/white birch forest, a type that did not occur here at the time of the General Land Office survey, now occurs on 14% of the area. Finally, second-growth northern hardwoods occur on another 8% of the LTA. GLO surveyors frequently reported the occurrence of large wildfires within LTA 5111. These fires were among the largest in the state, covering several square miles. Wind-throws, sometimes in combination with wildfire, were often reported.

Soil and topography:

Rubicon-Rose lawn and Roscommon Sands with Rifle Peat and Lupton Muck along creeks. Compartment is flat to gently rolling with steeper slopes along entrenched streams and a few widely scattered ice block depressions.

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

State and private lands are intermingled within the compartment. Land in all directions surrounding compartment is mostly state ownership. Private holdings are generally rural in nature.

Unique Natural Features:

Twenty-two Creek traverses the compartment and a branch enters the ground with considerable flow just south of the compartment. A branch of Carpenter Creek jogs in and out of the north side of the compartment. A high quality managed barrens area exist in Section 22. A large number of special plants, animals and natural communities occur within this LTA and potentially within this compartment.

Archeological, Historical, and Cultural Features:

None known, but a historic Native American trail crosses the adjacent compartment to the west.

Special Management Designations or Considerations:

Beaver activity and deer winter yarding around creeks. Managed high quality Barrens Area is Section 22

Watershed and Fisheries Considerations:

Both Carpenter Creek and Twenty Two Creek flow through this compartment. Both of these streams are designated trout streams with populations of naturally reproducing brook trout and brown trout, and are part of the State Designated Natural Rivers system (Boardman River). The Natural Rivers vegetative buffer for Twenty-two and Carpenter Creeks on State land is 100 feet. Beaver activity is common in both Twenty-two Creek and Carpenter Creek. Excessive beaver activity will degrade the natural flow dynamics of these streams, and should not be encouraged by final harvest activities in riparian areas.

Wildlife Habitat Considerations:

Most of compartment 53 consists of a dry sandy outwash plain (LTA 5111). The sandy soil found here was often the setting for large wildfires. These fires sustained a variety of fire driven communities, mainly conifer forests at the time of the GLO surveys. Present habitat types include upland mixed stands of pine/oak/aspen of various ages interspersed with a few openings, upland brush, natural pine, and several oak communities. Timber harvests should be designed to mimic wildfires of various intensities, when possible. Several aspen, oak, and pine stands will have cutting prescriptions this entry period and should utilize mature pine and oak as residuals. The creation of dead and down logs will also be included in some sales. Standing dead timber is usually left during harvest operations unless deemed a safety hazard. A large portion of this landscape has been identified by MNFI ecologists as a high quality remnant Oak Pine Barrens, one such fire driven natural community. By employing controlled fire on the landscape the hope is to restore a mosaic of natural pine, oak, aspen, and non-forested habitats like oak/pine barrens or savannas. Some species found in these early to mid-successional communities include: white-tailed deer, ruffed grouse, eastern bluebird, smooth green snake, long-tailed weasel, and red-tailed hawk. An Ecological Reference Area (ERA) management plan has been written for this occurrence of barrens. Also, many endangered, threatened, or special concern species can be found in these fire maintained ecosystems. Twenty-two Creek runs through this sandy outwash plain. A narrow strip of lowland conifers and lowland brush are found along the creek bottom and create a valuable riparian corridor through an otherwise dry landscape. A small tributary of Carpenter Creek also makes its way into the compartment. The east end of the compartment consists of broad rolling moraine ridges of dry sand. Several pine plantations are mixed with stands of oak, aspen, and northern hardwoods. Several deciduous stands are scheduled for treatments of various types. The final harvest of aspen should incorporate the protection of fruiting shrubs and the creation of coarse woody debris. The remaining thinning and selection cuts should result in a nice mix of tree species that will maintain or enhance habitat diversity. Standing dead timber is usually left during harvest operations. One opening, as well as a similar opening adjacent and south of Mayfield Road, will be burnt to stimulate the abundant little bluestem that is already present. Seeding native wildflowers into these openings should make a nice "showcase" treatment along Fife Lake Rd. This matrix of mixed upland deciduous and grassy openings will benefit badger, wild turkey, scarlet tanager, hog-nosed snake, ruffed grouse, Cooper's hawk, red-backed salamander, and gray squirrel.

Mineral Resource and Development Concerns and/or Restrictions

There is no known potential for the occurrence of economic deposits of metallic minerals in this part of the state. No active sand/gravel operations are known to exist in the area. There may be some potential for sand & gravel in the compartment on the uplands, but the compartment might be too far from populated areas (markets) for any aggregate resources to have much value beyond use by the county road commission or DNR for local road maintenance. The west half of the compartment is within the Silurian reef hydrocarbon play, and a number of wells have been completed within the compartment, but only a few were productive. All of the wells have since been plugged and abandoned, and all State mineral leases within the compartment are expired. There has been no recent well permit activity, but there may still be potential for additional discoveries of reef reservoirs beneath the compartment in the future.

Vehicle Access:

Access is generally good via county roads-Fife Lake Road, Boardman Road, Mayfield Road and Carpenter Creek Road. There are also a number of two tracks that traverse the compartment.

Survey Needs:

Section 23. Timber trespass. NW corner of private 80 must be located. Section 20. State Lands posted around private 40 NESW.

Recreational Facilities and Opportunities:

A variety of trail opportunities are offered in this compartment. The motorized trails include: the Grand Traverse Motorcycle Trail, Michigan Cross Country Cycle Trail (MCCCT), and Snowmobile trail #55 (Grand Traverse Snowmobile Trail). Non-motorized recreational opportunities include the Shore to Shore Riding and Hiking Trail, and sections of the North Country National Scenic Trail. Trail protection specifications should be considered for all these trails. Specifically, guidance provided by Policy and Procedures document "32.22XX Best Management Practices for Forest and Wildlife Management Adjacent to Recreational Trails" should be followed. In addition, guidance provided in the "Logging Operations and Horse

Events on State Land" should be considered when settling up timber sales that may impact the Shore to Shore Riding & Hiking trail. (T.M.N. 12/9/14).

Fire Protection:

This area is protected by Grand Traverse Fire Battalion # 6 and DNR fire protection is from the Traverse City Unit. Access to most areas in the compartment is adequate and there has not been significant recent wildfire activity.

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: 61053
T26N R09W 19-24
County: Grand Traverse
Unit: Traverse City
Mgmt. Area: Kalkaska Sandy Moraines
YOE: 2027
Acres: 3,143 GIS Calculated
Examiner: Patrick Cotant
Date Exported: 7/1/2025
Map Phase: Web Post



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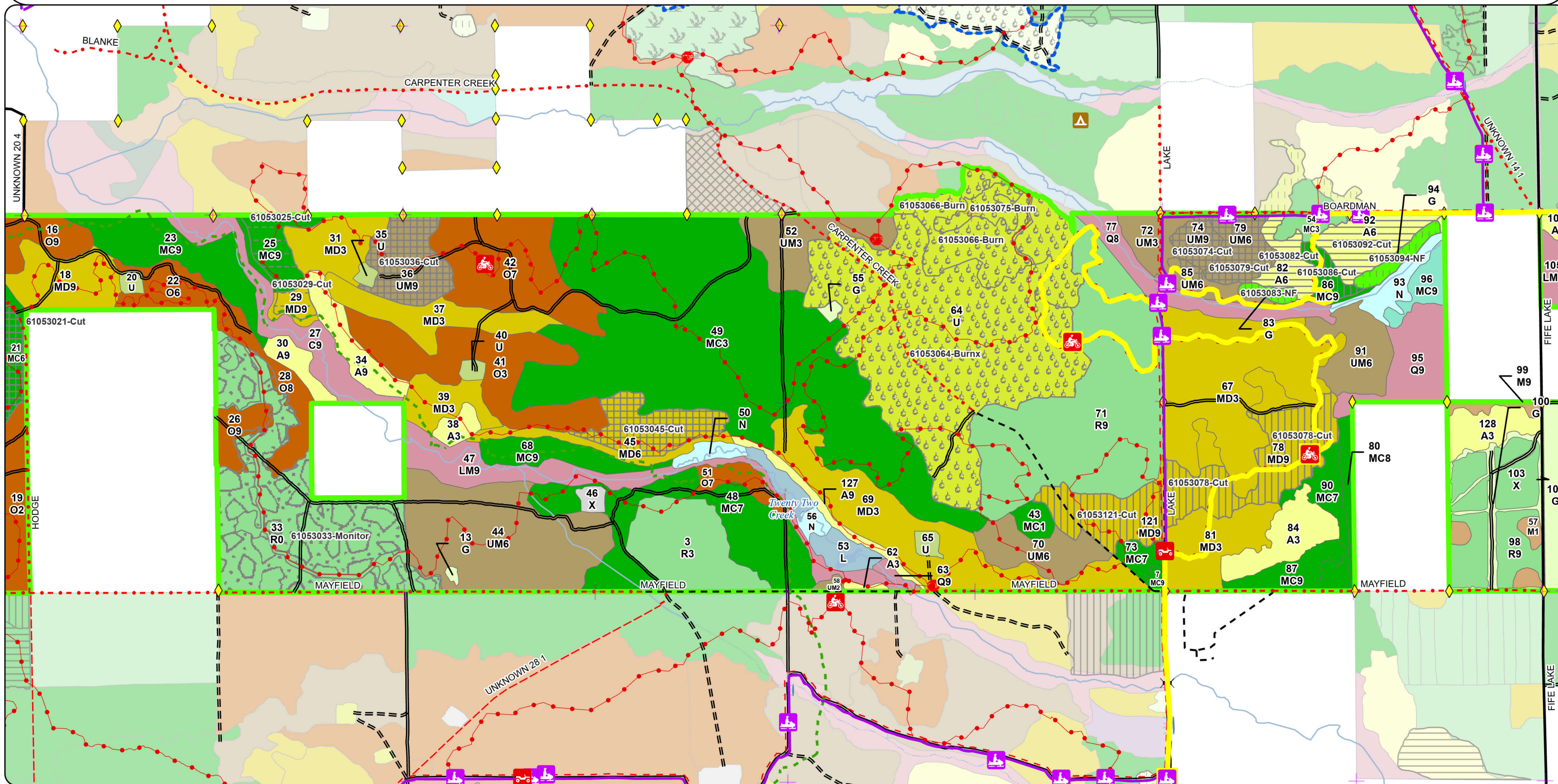
- Remonumented Section Corners
- Survey Grade Corners
- Bridges
- Culvert
- Campground
- Sign
- Designated Hiking Pathways
- Designated Motorcycle Trails
- Designated ORV Routes

- Designated Snowmobile Trails
- Designated MCCCT Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream

- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Clearcut
- Seed Tree
- Shelterwood
- Overstory Removal
- Prescribed Burn
- Openings Mgmt.

- Monitoring - Regeneration
- Treatments with Site Conditions
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest

- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 211 - Cropland
- 110 - Low Intensity Urban
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



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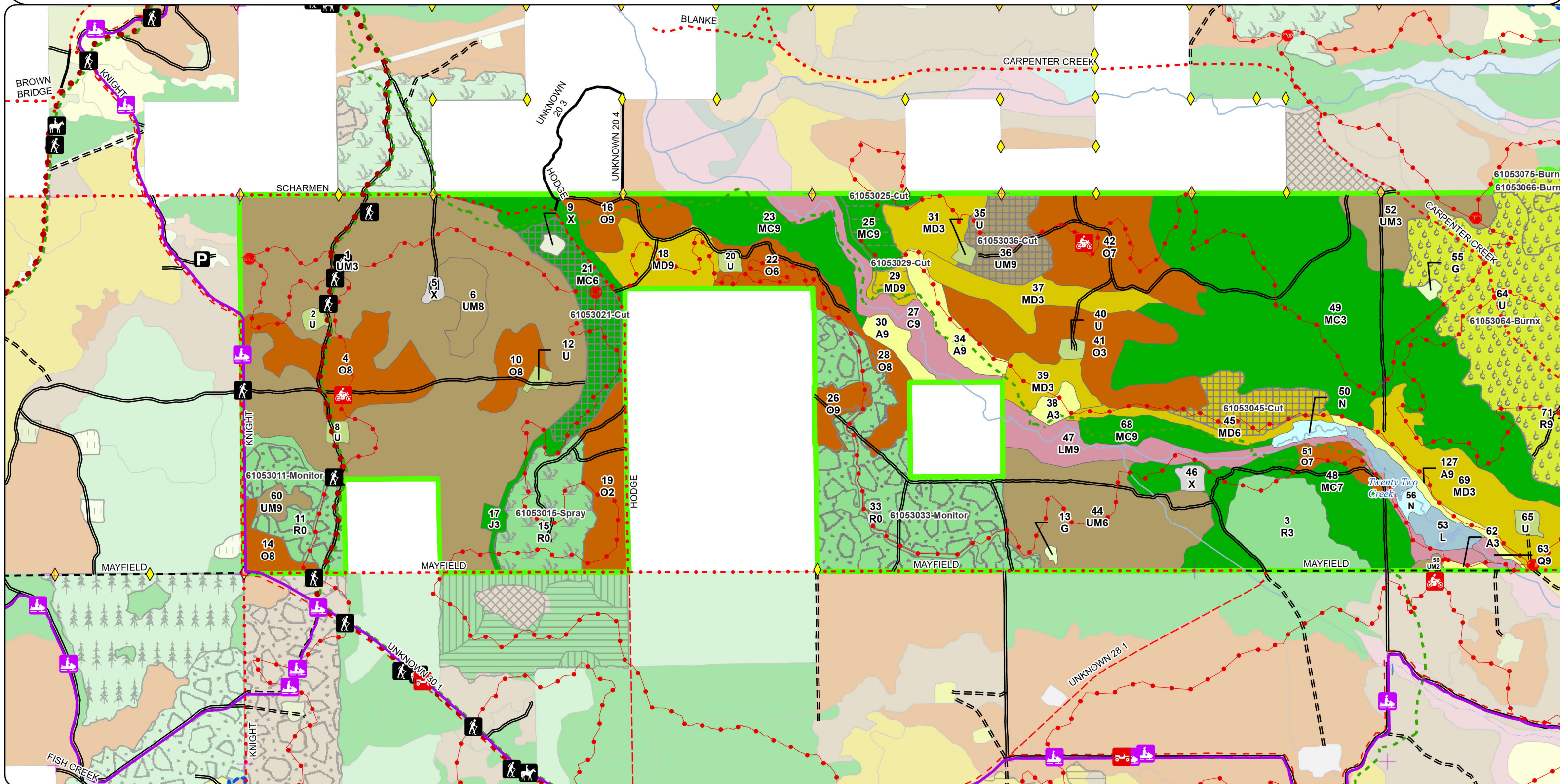
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- 790 - Other Bare/Sparsely Vegetated



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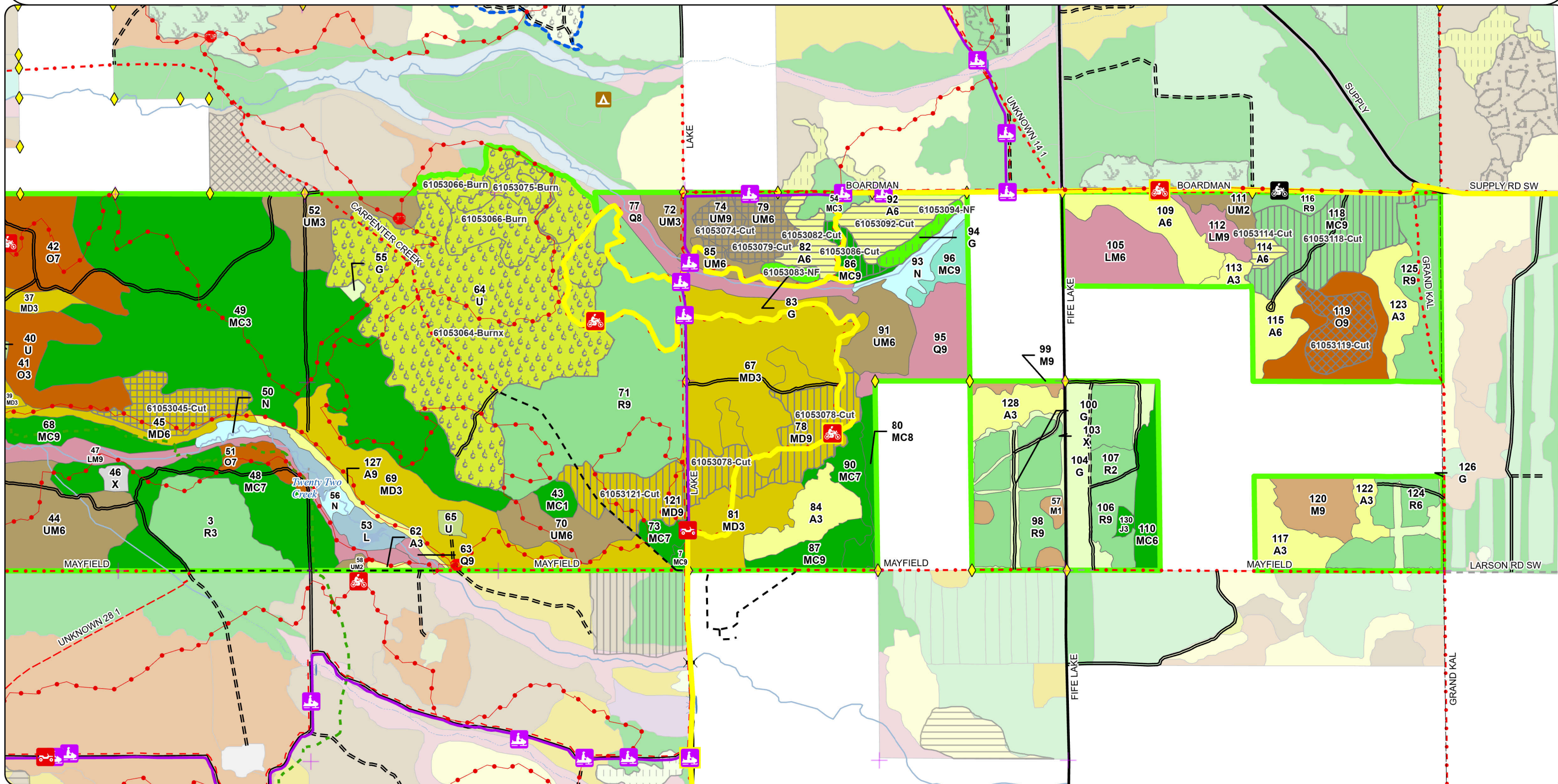
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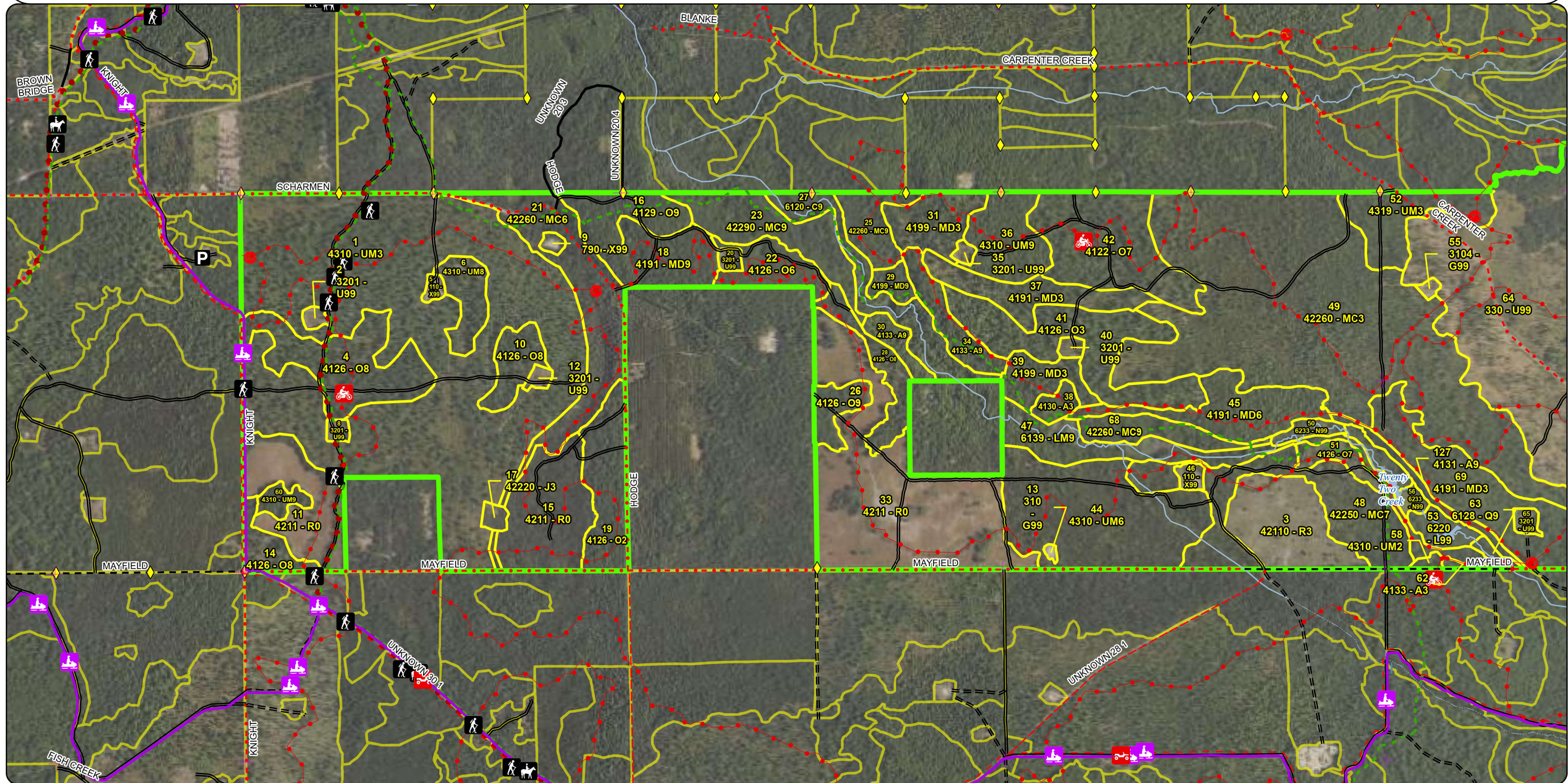
























A map of the United States with a red box highlighting the central region, specifically the area around the Great Plains. The red box is located in the central part of the country, covering parts of the Great Plains and the Rocky Mountains. The map shows the outlines of the states and the major highways. The red box is located in the central part of the country, covering parts of the Great Plains and the Rocky Mountains.

-  Designated Motorcycle Trails
-  Designated ORV Routes
-  Designated Snowmobile Trails
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-  DNR - Forest Access Route
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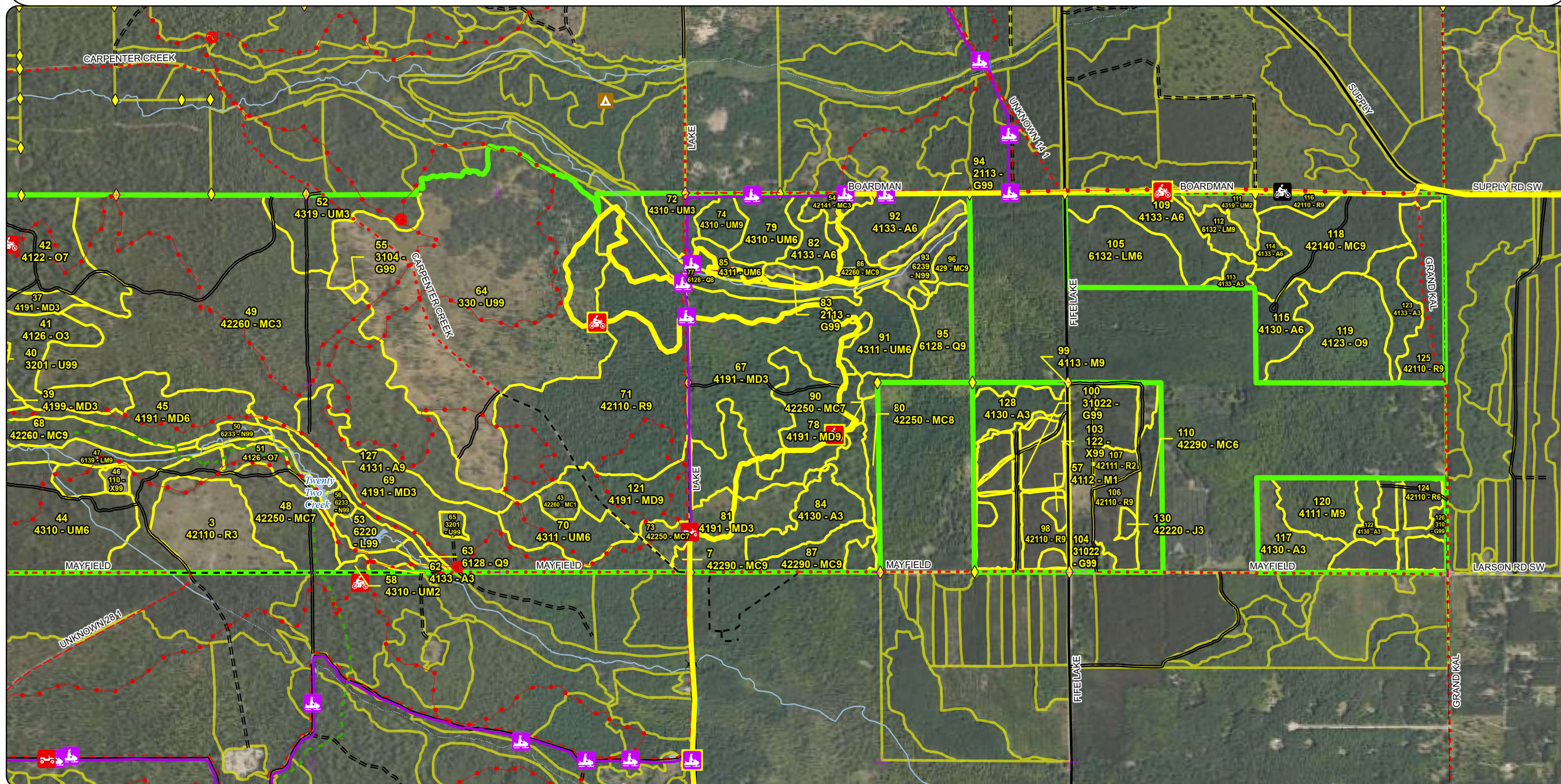
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|--|------------------------------|---|---------------------------------------|---|------------------------------|
|  | Remonumented Section Corners |  | Designated ORV Routes |  | Private - Dirt / Gravel Road |
|  | Survey Grade Corners |  | Designated MCCCT Trails |  | Intermittent Stream |
|  | Bridges |  | DNR - Secondary Forest Road |  | Perennial River |
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|  | Campground |  | Federal / State / County - Paved Road |  | Counties |
|  | Sign |  | Federal / State - Dirt / Gravel Road |  | Compartment Boundary |
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Special Conservation Areas & Site Conditions Map

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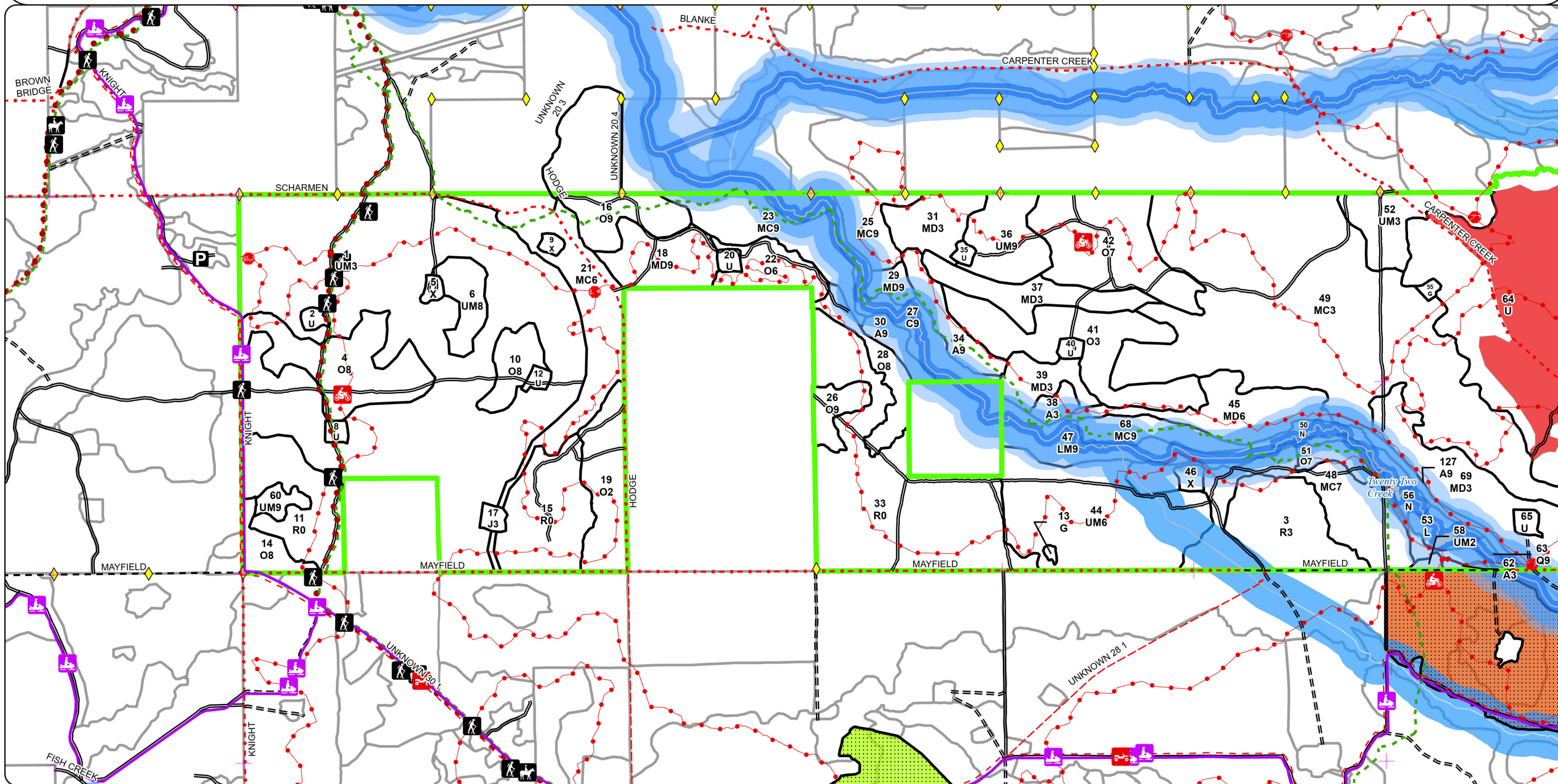
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
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Stand Boundaries
- Ecological Reference Areas

- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Other Habitat Area
- Possible Type 2 Old Growth










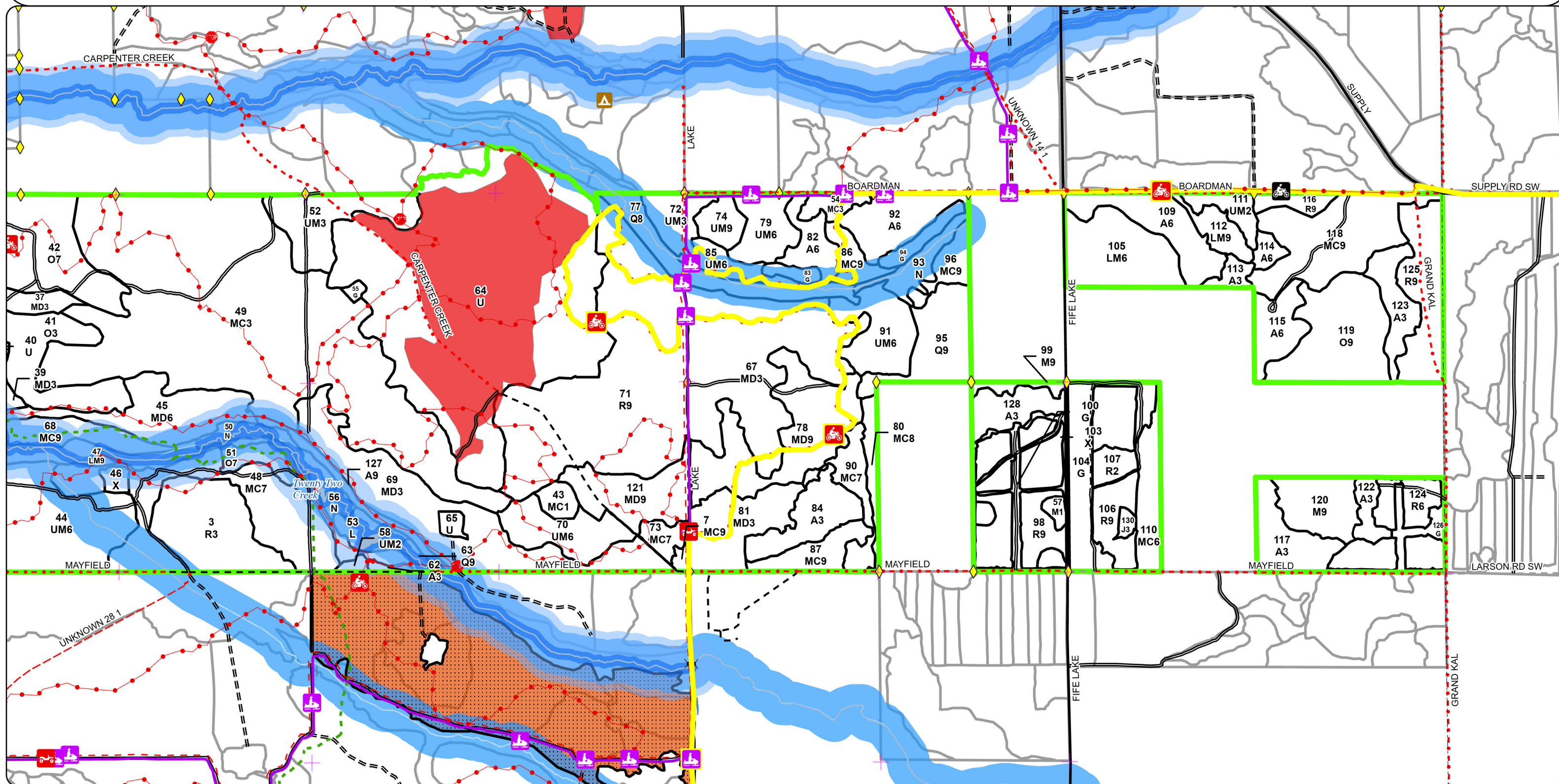
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-  Remonumented Section Corners
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-  SCA
-  Cold Water Streams
-  High Priority Trout Stream Buffer
-  Other Habitat Area



Report 1 – Total Acres by Cover Type and Age Class

	Age Class																		
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	20	60	5	41	0	38	0	8	0	24	0	0	0	0	0	0	0	196
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	29
Cropland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Herbaceous Openland	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Jack Pine	0	0	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Low-Density Trees	245	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	245
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	24	26	0	0	0	0	0	0	50
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	82	0	0	0	0	0	0	0	82
Lowland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Marsh	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	0	227	15	0	0	0	0	0	6	0	139	0	0	0	0	0	0	387
Natural Mixed Pines	0	0	263	0	5	0	73	0	59	22	10	6	0	29	50	0	0	0	517
Northern Hardwood	0	6	0	0	0	0	0	0	0	0	4	20	0	0	0	0	0	0	30
Oak	0	86	0	0	0	0	0	0	0	56	43	109	18	19	0	0	0	0	331
Planted Mixed Pines	0	0	6	0	0	0	0	0	0	0	47	0	0	0	0	0	0	0	52
Red Pine	200	40	0	6	0	0	0	93	0	30	139	0	0	0	0	0	0	0	506
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	9
Upland Mixed Forest	0	330	41	2	106	0	34	16	0	0	0	56	0	0	0	0	0	0	585
Upland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	564	482	599	28	155	0	145	109	67	114	373	385	27	48	50	0	0	0	3142

Report 2 – Treatment Summary

Traverse City Mgt. Unit

Year of Entry: 2027

Acres of Harvest

Compartment 53

Total Compartment Acres: 3,143

Commercial Harvest - 608

Harvests with Site Condition - 0

Next Step Harvest - 43

Habitat Cut - 43

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshoot Removal	Salvage	Other	Total Acres
Aspen	37	0	0	0	0	0	0	0	0	37
Mixed Upland Deciduous	0	0	0	24	66	0	4	0	0	95
Natural Mixed Pines	0	0	0	35	7	0	14	0	0	56
Oak	0	21	0	0	0	0	0	0	0	21
Planted Mixed Pines	0	0	0	0	47	0	0	0	0	47
Upland Mixed Forest	0	0	0	53	0	0	0	0	0	53
Total	37	21	0	112	120	0	18	0	0	309

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	309	0	0	0	244	43	142	0	10	747
Next Step	43	0	43	0	0	0	539	0	0	624
Total	351	0	43	0	244	43	681	0	10	1371

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

78	61053078-Cut	41.2	4191 - Mixed Upland Deciduous with Conifer	9	105	111-140	Harvest	Shelterwood	4122 - Oak, Pine	Planting Record	No
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Prescription Shelterwood harvest protecting advanced and smaller regeneration. Retain 20-50 BA of white oak for mast source along with larger, well formed red and white pine. Retain 2-3 islands of large, super canopy white and red pine in eastern lobe of stand. Protect MCCCT trail w/in stand retaining additional trees along trail and using appropriate trail protection specs in contract.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable White oak, white pine, aspen, red maple and jack pine.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

21	61053021-Cut	34.8	42260 - Natural Pine, Mixed Deciduous	6	55	81-110	Harvest	Seed Tree	4310 - Pine, Oak Mix	Cutting Record	No
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Prescription Treat stand by removing all jack pine, cherry, red maple and red oak. Retain 10-20 BA of white oak along with all red pine and white pine.
Specs: Protect Motorcycle trail, apply additional retention of white oak along trail corridor - exclude portion of stands east of Hodge road and keep treatment ~1/2 chain south of NCT. In addition, northern portion of stand should be excluded from treatment area north of NCT, addressing aesthetics, retention and protection of lowland/bog area, north of Sharmen Rd.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Jack pine, white oak, white pine, cherry and red maple.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

25	61053025-Cut	14.1	42260 - Natural Pine, Mixed Deciduous	9	120	81-110	Harvest	Overstory Removal	4310 - Pine, Oak Mix	Planting Record	No
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Prescription Treat stand by overstory removal, retain all red and white pine 8" and larger. Protect trail, ensure creek buffer is adequate paying close attention to topo lines. Protect trail using appropriate contract specs.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable White pine, red pine, white oak, red oak and aspen, with jack pine likely to seed in.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

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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
29 61053029-Cut	4.3	4199 - Other Mixed Upland Deciduous	9	80	51-80	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Planting Record	No
<u>Prescription Specs:</u> Harvest portion of this stand, removing aspen, red maple, red oak and any remaining jack pine. Retain a few white oak for mast along with red and white pine. <u>Next Step Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
36 61053036-Cut	26.4	4310 - Pine, Oak Mix	9	105	141-170	Harvest	Seed Tree	4122 - Oak, Pine	Cutting Record	No
<u>Prescription Specs:</u> Seed tree harvest stand, retaining 10-20 BA of large white oak and larger red and white pine. Residual BA will vary in spots as additional retention should be applied along motorized recreation trail and in pockets of concentrated large red and white pine. Apply trail protection specs and utilize oak wilt spec. <u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory) <u>Acceptable Regen:</u> White oak, red oak, white pine, red pine, aspen, red maple and jack pine. <u>Other Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
45 61053045-Cut	23.9	4191 - Mixed Upland Deciduous with Conifer	6	105	51-80	Harvest	Seed Tree	4319 - Mixed Upland Forest	Planting Record	No
<u>Prescription Specs:</u> Treat stand with seed tree harvest, retaining scattered white oak and red/white pine to continue to develop white oak understory while also providing a seed and mast source. Keep treatment on top of slope which leads to 22 creek, this will also leave majority of motorized trail out of treatment area. In addition, exclude narrow finger of western portion of stand due to topographical influences. Additional individual tree retention should be applied along motorized trail - use appropriate trail protection specs w/in contract. <u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory) <u>Acceptable Regen:</u> White oak, white pine, red maple, jack pine and aspen. <u>Other Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
64	61053064-Burnx	182.9	330 - Low-Density Trees	99			Burn	Prescribed Burn	3303 - Mixed Low Density Trees	Previous Inventory	No
<u>Prescription</u> Burn periodically to maintain and enhance barrens type. The goal of prescribed burning is to restore and maintain an Oak/Pine 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, fertilizing, burning, or removal of woody encroachment. <u>Specs:</u> <u>Next Step</u> Monitoring, Other - Specify <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
64	61053066-Burn	52.1	330 - Low-Density Trees	99			Burn	Prescribed Burn	330 - Low-Density Trees	Previous Inventory	No
<u>Prescription</u> Monitor formation of barrens type. Schedule future prescribed burns to maintain and enhance feature, <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> typical barrens type flora. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
74	61053074-Cut	10.2	4310 - Pine, Oak Mix	9	105	81-110	Harvest	Seed Tree	4319 - Mixed Upland Forest	Planting Record	No
<u>Prescription</u> Treat stand with seed tree harvest, retain large canopy white oak, ~ 10 BA, this should help shelter advancing white pine white oak regen, expect jack pine and aspen to regenerate as well throughout stand. *expand treatment south into stand 85 attempting to harvest a couple aspen clones north of motorized trail. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> White oak, aspen, jack pine, white pine and red maple. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											

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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
121 61053121-Cut	25.1	4191 - Mixed Upland Deciduous with Conifer	9	105	111-140	Harvest	Shelterwood	4121 - Oak, Aspen	Planting Record	No
<u>Prescription</u> Treat stand with shelterwood harvest. Retain 20-40 ba of white oak and red & white pine and protect intermediate canopy trees where possible, specifically white pine and white oak, 4" and less dbh. Protect motorized trail within stand retaining additional trees along trail corridor, do not disturb advanced regen w/in 10' of trail. Use trail protection specs in contract. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> white oak, white pine, aspen, red maple and jack pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
79 61053079-Cut	16.4	4310 - Pine, Oak Mix	6	65	81-110	Harvest	Seed Tree	4319 - Mixed Upland Forest	Planting Record	No
<u>Prescription</u> Treat stand with a seed tree harvest, retaining scattered single stem white oak, white pine and red pine for mast and continued seed source. <u>Specs:</u> Less retention near more dense aspen clones. Attempt to protect advanced white pine and white oak regen. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, white oak, white pine, red pine, red maple and jack pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
82 61053082-Cut	12.0	4133 - Aspen, Mixed Pine	6	55	81-110	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
<u>Prescription</u> Treat stand with final harvest, retaining some red pine and white oak for vertical structure, aesthetics, mast and seed source. Protect trail at E/SE edge of stand, include trail protection specs in contract. Remove all aspen, red maple and jack pine regardless of size. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, red maple, jack pine, white oak, red pine and white pine. <u>Regen:</u> <u>Other</u> Use grouse/drumming log spec within treatment area. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
83 61053083-NF	3.4	2113 - Forage Crops	99			NonForestMgt	Openings Mgmt.	31021 - Cool Season Grass	Previous Inventory	No
<u>Prescription</u> This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil will support it. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
86 61053086-Cut	7.2	42260 - Natural Pine, Mixed Deciduous	9	90	81-110	Harvest	Shelterwood	4311 - Pine, Aspen Mix	Cutting Record	No
<u>Prescription</u> Shelterwood harvest with additional retention along MCCCT trail for aesthetic purposes and to maintain trail bed/corridor. Focus retention on larger red and white pine along with scattered white oak for mast source. Retention should range between 20-40 sq ft/acre. Include trail protection specs in contract. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mixed aspen, red maple, red pine, white pine and white oak. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
92 61053092-Cut	21.4	4133 - Aspen, Mixed Pine	6	55	111-140	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
<u>Prescription</u> Final harvest stand. Retain scattered, larger diameter white pine localized along Boardman rd for aesthetics. In addition mark a few larger white oak throughout stand for mast source, and retain some larger white oak at edge of wildlife opening. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, white pine, white oak and red maple. <u>Regen:</u> <u>Other</u> Use grouse/drumming log spec within treatment area. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
94 61053094-NF	6.2	2113 - Forage Crops	99			NonForestMgt	Openings Mgmt.	31021 - Cool Season Grass	Previous Inventory	No
<u>Prescription</u> This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil will support it. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
114 61053114-Cut	3.9	4133 - Aspen, Mixed Pine	6	55	141-170	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
<u>Prescription</u> Clearcut with retention harvest, with the goal of regenerating aspen in this small pocket when adjacent pine stand is treated. 2-3 legacy white and red pine present, do not harvest - in addition, retain 4-5 additional white pine greater than 12" w/in stand. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, red maple and white pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
118	61053118-Cut	46.5	42140 - Planted Mixed Pine	9	94	141-170	Harvest	Shelterwood	4311 - Pine, Aspen Mix	Planting Record	No
<u>Prescription</u> Treat stand with shelterwood harvest, retaining 30-40 BA of red and white pine in areas where aspen is more dense, with the goal of regenerating aspen and providing a conifer seed source to continue propagating natural red and white pine regeneration. Protect advanced white pine regeneration as much as possible. In eastern area of stand where red pine is more uniformly dominant and aspen is less of a component, maintain higher stocking of 40-70 BA, or delineate area to mark to cut, removing 1/2-1/3 of volume, retaining the best quality trees. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, white pine, red pine and red oak. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
119	61053119-Cut	21.1	4123 - Red Oak	9	90	81-110	Harvest	Selection	4121 - Oak, Aspen	Planting Record	No
<u>Prescription</u> Conduct single tree selection on treatment area, reducing overall BA to 60-70 sq ft/ac. Focus removal on poorly formed and suppressed trees while also removing trees with significant dieback in tops. Retain all conifers w/in treatment area and protect advanced regeneration during harvest operations. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Red oak, red maple, aspen, white pine and red pine. <u>Regen:</u> <u>Other</u> Use oak wilt specs in contract. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
64	61053075-Burn	8.8	330 - Low-Density Trees	99			Burn	Prescribed Burn	31022 - Warm Season Grass	Previous Inventory	No
<u>Prescription</u> Carpenter Creek Oak Pine Barrens. Continue rotational burns as needed. Divide into several burn units to stagger burns over several years. Treat for exotics as needed, particularly spotted knapweed along two tracks. <u>Specs:</u> <u>Next Step</u> Monitoring, Other - Specify <u>Treatments:</u> <u>Acceptable</u> Barrens typical flora. <u>Regen:</u> <u>Other</u> The goal of prescribed burning is to restore and maintain an Oak/Pine 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, fertilizing, burning, or removal of woody encroachment. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											

Approved Treatments:

15	61053015-Spray	42.7	4211 - Planted Red Pine	0	0	Immature	Pesticide	Pesticide	42111 - Planted Red Pine, Mixed Deciduous	Planting Record	No
<u>Prescription</u> trench after harvest to prep for red pine planting <u>Specs:</u> <u>Next Step</u> Planting, Unfurrowed; Monitoring, Artificial Regen; Harvest, Single Tree Selection <u>Treatments:</u> <u>Acceptable</u> red pine, jack pine, oak, red maple, aspen, white pine. <u>Regen:</u>											

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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
<p>Other Percent to Treat = 100%</p> <p>Comment:</p> <p>Site Condition:</p> <p>Proposed Start Date: 10/01/2024</p>										
33 61053033-Monitor	110.1	4211 - Planted Red Pine	0	1	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine	Planting Record	No
<p>Prescription</p> <p>Specs:</p> <p>Next Step</p> <p>Treatments:</p> <p>Acceptable red pine, oak.</p> <p>Regen:</p> <p>Other Percent to Treat = 100%</p> <p>Comment:</p> <p>Site Condition:</p> <p>Proposed Start Date: 10/01/2026</p>										
11 61053011-Monitor	31.8	4211 - Planted Red Pine	0	1	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine, Mixed Deciduous	Planting Record	No
<p>Prescription</p> <p>Specs:</p> <p>Next Step</p> <p>Treatments:</p> <p>Acceptable red pine, jack pine, white pine, oak, aspen, red maple,</p> <p>Regen:</p> <p>Other Percent to Treat = 100%</p> <p>Comment:</p> <p>Site Condition:</p> <p>Proposed Start Date: 10/01/2025</p>										

Total Treatment 746.5
Acreage Proposed:

Report 4 – Site Conditions



Availability for Management

Total	Acres	Acres Avail	Acres	Dominant Site Conditions							
Acres	Available	With Condition	Not Available		5C	2F	2G	3A	3D	3J	5E
182	160	0	22	Aspen		8		8			6
2	2	0	0	Bare/Sparsely Vegetated							
29	0	0	29	Cedar						29	
10	10	0	0	Cropland							
50	50	0	0	Herbaceous Openland							
5	5	0	0	Jack Pine							
245	245	0	0	Low-Density Trees							
50	0	0	50	Lowland Conifers						50	
82	0	0	82	Lowland Mixed Forest			82				
14	15	0	0	Lowland Shrub							
19	19	0	0	Marsh							
291	241	27	23	Mixed Upland Deciduous	27				10		13
452	380	0	72	Natural Mixed Pines				16		34	22
30	30	0	0	Northern Hardwood							
330	291	39	0	Oak	39						
52	53	0	0	Planted Mixed Pines							
364	350	0	14	Red Pine							14
9	0	0	9	Upland Conifers				9			
584	554	24	5	Upland Mixed Forest	24						5
15	15	0	0	Upland Shrub							
8	8	0	0	Urban							
2,822	2,426	90	306	Total Forested Acres	90	8	82	34	10	113	60
	86%	3%	11%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lowland mix-cedar							

Report 4 – Site Conditions



2	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	34	2F: Too steep	3D: Recreational/scenic values	Unspecified	Unspecified
Comments: The North Country Trail bisects this stand as does 22 Creek. This stand is considered type II old growth.							
3	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 22 Creek flows through stand, riparian area contains numerous large, old growth white and red pine.							
4	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: South Branch Carpenter Creek corridor and riparian area.							
7	Unavailable	3A: Conservation values incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Old growth natural pine stand with mixed deciduous.							
8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	26	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Lowland swamp conifer stand with numerous seeps, sensitive soils and high water table influence.							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Patrick Cotant: Examiner

Compartment: 53
Year of Entry: 2027



10	Unavailable	3A: Conservation values incompatible with harvest at this time	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	39	3A: Conservation values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3A: Conservation values incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	2	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments: Upland steep slope and bottomland along creek drainage.							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Patrick Cotant: Examiner

Compartment: 53
Year of Entry: 2027



15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Aspen is relatively small diameter, recommend waiting until next YOE to conduct harvest, recommend aspen removal, retain white pine.							
16	Unavailable	5E: Long-Term Retention	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural pine stand, large diameter and old age.							
17	Unavailable	3D: Recreational/scenic values	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Slope to 22 creek and recreation trail protection, management is incompatible with conservation values at this time.							
18	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	66	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Patrick Cotant: Examiner

Compartment: 53
Year of Entry: 2027



22	Unavailable	5E: Long-Term Retention	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2F: Too steep	8	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Upslope from creek, some seeps at base of slope and stand gets hummocky and wet in northern portion.							
36	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	5E: Long-Term Retention	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Unavailable	5E: Long-Term Retention	1	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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	4310 - Pine, Oak Mix	Sapling Well	321.6	8	1-50	N/A	Stand is a mix of planted red pine, 3-7' tall and 7 years old along with resulting natural deciduous regen from harvest. In addition, 10-30 BA of white oak, white pine and trace red pine make up the overstory that was retained during most recent harvest. Some pockets slightly more dense, other areas with less overstory stocking. 2020; STAND WAS SCHEDULED FOR SKIDDER HERBICIDE RELEASE. dropped TREATMENT. ACCEPT MIXED STAND AS ORIGINALLY INTENDED. 2015: part of TS# 052-14. Cut all merchantable -oak and pine retention. Stand was chip harvested, trenched and planted to red pine (spring 2016). South part of stand planted 2017. 1st yr regen check done 2017. 350-500 tpa red pine. A good bit or natural regeneration from aspen rm, cherry, oak. Consider replant. A good bit of mortality noted in regen check. This site was initially planted during very dry spring and summer. Re-planted spring 2018. Checked regen 10/10. Recommend release herbicide application.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		5		15			
Jack Pine		5	Log	1			
Red Pine		35	Log	1	8		
Red Maple		20	Log	1			
White Oak		10		12	89		
White Oak		20	Log	1			
Red Oak		5	Log	1			
2	3201 - Sweet Fern	Unspecifed	2.1			No	Mostly sweetfern with clumps of little bluestem. A few holes.
Sub-Canopy Species		Density	Avg. Height	Size			
Bracken Fern		Low	Not Applicable	Not Applicable			
Mixed Grasses		Medium	Not Applicable	Not Applicable			
Sweet Fern		High	5 - 10 feet	5 - 10 feet			
Little Bluestem		Medium	Not Applicable	Not Applicable			
3	42110 - Planted Red Pine	Sapling Well	39.8	5	Immature	N/A	Red pine growing fairly well, some patchy competition in areas of stand, mainly consisting of jack pine and cherry with scattered white oak and red maple.2023 - Year 3 Regeneration Survey was completed 9/13/2023. There is currently 685 Trees per Acre and stand is 79% Free to grow11/9/2021 - Year 1 regeneration survey completed. Stand has approximately 887 trees per acre. Stand is free to grow at this time no herbicide treatment is currently recommended. Check stand for year 3 regeneration survey is recommended. 2021: Stand planted with containerized red pine. 2020: Herbicide applied skidder fall 2020. TS# 064 17. Harvest 8/2018. Trenched 2019. Scheduled herbicide 2020 and plant 2021. Cut to 1 inch to prep site for red pine planting. Was a rp/jp site with some oak and rm. Jp had been removed in earlier harvest and was growing in gaps. Site should be allowed to sprout with a herbicide application in 2019. Plant 2020. Retention along road and motorcycle trail.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		80	Log	1	5		
Jack Pine		10	Log	1			
Black Cherry		10	Log	1			
4	4126 - White, Black, N. Pin Oak	Sawtimber Medium	45.3	105	1-50	N/A	Stand responding well to most recent treatment, good regeneration and advanced regen that was released is progressing well to intermediate canopy level. Overstory oak and pine are in good condition, stand along with other islands w/in stand 1 are providing good verti al steucture and some additional diversity and cover. 2020: Stand treated. Removed jp, aspen and poorly formed oak and rm. Intention is to create oak islands surrounded by younger stand formed from other treatments.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		10		14	65		
White Oak		60		14	105		
Red Pine		15		12	65		
Red Oak		10		14			
Red Maple		5		8			
Sub-Canopy Species		Density	Avg. Height	Size			
White Oak		Medium	10 - 20 feet	10 - 20 feet			
Red Oak		Low	5 - 10 feet	5 - 10 feet			
Red Maple		Low	10 - 20 feet	10 - 20 feet			
White Pine		Low	>20 feet	>20 feet			
Jack Pine		Low	5 - 10 feet	5 - 10 feet			
Black Cherry		Low	5 - 10 feet	5 - 10 feet			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
5	110 - Low Intensity Urban	Unspecified	2.1			No	Active well site.		
6	4310 - Pine, Oak Mix	Sawtimber Medium	14.6	105	1-50	N/A	Good mix of species making up canopy with higher percentages of conifer than other island stand w/in stand 1. Growing well overall, advanced and new regeneration are in good shape and progressing well, providing some good cover in spots. 2020: Stand treated. Removed jp, aspen and poorly formed oak and rm. Intention is to create oak islands surrounded by younger stand formed from other treatments.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	45	Seedling	8	65	White Pine	Medium		5 - 10 feet	5 - 10 feet
Black Cherry	5	Seedling	8		Black Cherry	Low		5 - 10 feet	5 - 10 feet
White Oak	45		14	105	White Oak	High		5 - 10 feet	5 - 10 feet
Red Oak	5		14						
7	42290 - Natural Mixed Pine	Sawtimber Well	1.8	93	81-110	N/A			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Oak	5		16	105	White Pine	High	5 - 10 feet	5 - 10 feet	
Bigtooth Aspen	2		10		Red Pine	Low	5 - 10 feet	5 - 10 feet	
Red Oak	5		16	105	Red Maple	Low	5 - 10 feet	5 - 10 feet	
White Pine	40		12		White Oak	Medium	5 - 10 feet	5 - 10 feet	
Red Pine	48		16	93					
8	3201 - Sweet Fern	Unspecified	2.1			No	Really nice old well pad. Equal mixture of sweetfern and little bluestem. Jack pine encroaching. Leave as-is.		
					Sub-Canopy Species	Density	Avg. Height	Size	
					Sweet Fern	High	5 - 10 feet	5 - 10 feet	
					Little Bluestem	High	Not Applicable	Not Applicable	
					Jack Pine	Low	10 - 20 feet	10 - 20 feet	
9	790 - Other Bare/Sparsely Vegetated	Unspecified	1.8			No	Allot of bare soil in center. Should do something here. FMFM recommends leaving as-is, replant to jack pine during next compartment cycle when adjacent stand is ready for cut. Need to fix berm.		
					Sub-Canopy Species	Density	Avg. Height	Size	
					Sweet Fern	Low	5 - 10 feet	5 - 10 feet	
					Spotted Knapweed	Low	Not Applicable	Not Applicable	
					Mixed Grasses	Low	Not Applicable	Not Applicable	
					Jack Pine	Medium	10 - 20 feet	10 - 20 feet	
10	4126 - White, Black, N. Pin Oak	Sawtimber Medium	14.0	105	51-80	N/A	Stand is regenerating well following recent harvest, advanced regen is progressing and entering intermediate canopy in spots, regen resulting from harvest is doing well with a good mix of species present. Overstory oak and pine are good quality and in good shape.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Pine	10		16	70	White Oak	Medium	10 - 20 feet	10 - 20 feet	
White Oak	60		14	105	White Pine	Low	Variable	Variable	
Red Oak	13		14	105	Jack Pine	Low	5 - 10 feet	5 - 10 feet	
White Pine	15	Seedling	8	70	Jack Pine	Trace	5 - 10 feet	5 - 10 feet	
Black Cherry	2	Seedling	8		Black Cherry	Low	5 - 10 feet	5 - 10 feet	
					Red Oak	Low	5 - 10 feet	5 - 10 feet	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
11	4211 - Planted Red Pine	Unspecifed	38.0	1	Immature		Red pine growing well, minimal competition throughout stand.2023 - Year 1 Regeneration Survey was Completed 9/13/2023. There is currently 857 Trees Per Acre and the stand is currently 98% Free to Grow at this time. 2023 - Stand was planted to red pine, 911 TPA. 2022 - Stand was Contacted Skidder Sprayed 7/18/20222021 - Stand Was contracted trenched2020: Site chip harvested to prep for planting. Trench in 2021. 2015: Consider harvesting this and planting red pine. Most of the stand would be pretty clean after harvest. Northwest part has heavier oak understory. Part of stand 14 could also be final harvested where there is light understory development. Stand 60 should be retained as good age/structure diversity. 2005;Older pine and oak scattered JP variable aged 30-50 most 30. Jack pine looks fine but the quality is poor. Red pine did much better on this site. Let grow in more and look at in next entry.																																																						
12	3201 - Sweet Fern	Unspecifed	2.1			No	Sweetfern opening.																																																						
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Sweet Fern	Full	5 - 10 feet	5 - 10 feet																																																										
13	310 - Herbaceous Openland	Sapling Medium	0.7			No	Old well site slowly converting to jack pine regeneration around edges which has been incorporated into adjacent stand.																																																						
14	4126 - White, Black, N. Pin Oak	Sawtimber Medium	11.0	105	51-80	N/A	Responding well after treatments, significant white oak regen in places along with aspen sprouts and some jack pine seedlings.																																																						
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Pine</td><td>5</td><td></td><td>14</td><td></td><td>White Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Maple</td><td>2</td><td></td><td>12</td><td></td><td>Jack Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Oak</td><td>20</td><td></td><td>16</td><td></td><td>White Oak</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Oak</td><td>73</td><td></td><td>16</td><td>105</td><td>Red Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>Red Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>						Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	5		14		White Pine	Low	5 - 10 feet	5 - 10 feet	Red Maple	2		12		Jack Pine	Low	Variable	Variable	Red Oak	20		16		White Oak	Medium	5 - 10 feet	5 - 10 feet	White Oak	73		16	105	Red Pine	Low	5 - 10 feet	5 - 10 feet						Red Maple	Low	5 - 10 feet	5 - 10 feet
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15	4211 - Planted Red Pine	Unspecifed	42.9	0	Immature		Clean site for planting objective, regen present is primarily cherry sprouts in the 1-3' range scattered through. A few retained red pine in the pole/log class to trench around along with regen buffer along trail which contains some pole sized charry and white pine as well. Stand harvested in summer 2023. Trench, spray and plant red pine. Trench around motorcycle trail which loops through stand. Shrub and tree buffer along trail.																																																						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	4129 - Mixed Oak	Sawtimber Well	21.6	105	141-170	N/A	Fair quality stand, less of a conifer component than adjacent stand 18. Was originally part of stand 23 but is mainly upland. NCT passes through stand along with forest road. Oak is fair quality, some pockets of white oak regen and a fair amount of white pine saplings. Consider treating this stand along with stand 18 and 22 next YOY.
17	42220 - Natural Jack Pine	Sapling Medium	2.7	30	Immature	N/A	Natural succession of jack pine into old well site. Averages 4" DBH but some merchantable trees throughout stand, will likely be J6 next YOY.
18	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	26.7	105	81-110	N/A	Fair quality stand of mixed species, dominated primarily by white oak and white pine. Understory of white pine developing well with relatively dense pockets of white oak scattered throughout stand. Cycle trail reroute passes through stand.
19	4126 - White, Black, N. Pin Oak	Sapling Medium	31.3	2	1-50	N/A	Regenerating stand consisting primarily of red maple and white oak saplings. Scattered white oak retained at time of recent harvest, less than 10BA. Fair amount of browse in some areas, also areas not yet filling in with regeneration, currently occupied with concentrated pockets of sedge. Scattered, trace jack pine and white pine saplings.
20	3201 - Sweet Fern	Unspecified	2.2			No	Big clumps of sweetfern. Redtop (?) grass. Nice oaks surrounding opening. A couple holes, a patch of milkweed. Two-track goes around perimeter.

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
27	6120 - Lowland Cedar	Sawtimber Well	29.0	105	111-140	N/A	Cedar stand with spruce/fir component throughout. Also large red and white pine scattered throughout stand, some very large diameter individual legacy trees. Some historic beaver activity along creek.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	10		14	135	White Pine	Low		5 - 10 feet	5 - 10 feet
Red Pine	2		14	135	Balsam Fir	Medium		5 - 10 feet	5 - 10 feet
Balsam Fir	6	Seedling	8		Hemlock	Low		10 - 20 feet	10 - 20 feet
Red Maple	10		12	100					
Yellow Birch	2	Seedling	8						
Black Spruce	2	Seedling	8						
Northern White Cedar	58		12	105					
Hemlock	10		14	105					
28	4126 - White, Black, N. Pin Oak	Sawtimber Medium	17.3	105	51-80	N/A	Stand responding well from harvest, significant white oak regeneration from acorn and stump sprout origin, in fairly good condition, some areas browsed. Some slash from adjacent cut/plant treatment was placed in this stand as mentioned in previous comments, breaking down and currently providing a good source of course woody debris.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10		12		White Pine	Medium		10 - 20 feet	10 - 20 feet
White Pine	20	Seedling	7		White Oak	High		5 - 10 feet	5 - 10 feet
White Oak	70		13	105	Red Maple	Low	5 - 10 feet	5 - 10 feet	2020: Harvest 2020. Removed jack pine and poor formed oak and red maple. Lots of slash from surrounding stand left in this stand. State land posted. Contact from C.O. Signs taken down.
29	4199 - Other Mixed Upland Deciduous	Sawtimber Well	5.9	80	51-80	N/A	Small flat between more entirely upland stands and the 22 creek corridor. Mainly upland but some lowland areas and high water table in spots. Jack pine has fallen out of stand, aspen is deteriorating a bit.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	5		14		White Pine	Medium		Variable	Variable
White Oak	15		14	95	Balsam Fir	Medium		5 - 10 feet	5 - 10 feet
Balsam Fir	5	Seedling	7						
Red Maple	35		12	80					
Bigtooth Aspen	30		14	80					
Red Oak	5		14	105					
Red Pine	5		14	110					
30	4133 - Aspen, Mixed Pine	Sawtimber Well	7.8	90	81-110	N/A		Steep north facing slope leading to 22 Creek, majority too steep to harvest and lower elevation more level portion of stand falls within riparian management zone. Some beaver activity closer to creek. Red oak is fairly nice quality.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
White Oak	5		14	105	Balsam Fir	Medium	Variable		Variable
White Pine	10		12	80	White Pine	Low	5 - 10 feet		5 - 10 feet
Jack Pine	5		10	80					
Red Oak	10		14	105					
Red Maple	20		10	75					
Bigtooth Aspen	20		14	90					
Red Pine	10		12	80					
Quaking Aspen	20		16	90					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
31	4199 - Other Mixed Upland Deciduous	Sapling Poor	20.5	16	Immature	N/A	Featured regen as canopy but scattered oak and pine in overstory retained at time of last harvest. Aspen more of a significant component in central/western area of stand.																																														
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33	4211 - Planted Red Pine	Unspecifed	118.9	1	Immature		Planted red pine growing well, some competition but nominal. Expect red pine to be ftg at 3 year regen check.2023 - Stands year 1 regeneration check was completed 9/13/2023. Stand currently has 890 Trees per Acre and is 98% Free to Grow at this time. 2023 - Stand was planted to red pine, 935 TPA. Some scattered white oaks left in stand.2022 - July 2022 Stand was Site Prep Sprayed with Contract Helicopter Contracted Trenched Spring 2021.Harvested 2020. Chipped and cleared to prep site for planting. Good bit of oak and rm sprouting places. Trench and spray 2021 if possible.																																														
34	4133 - Aspen, Mixed Pine	Sawtimber Well	15.9	90	111-140	N/A		Aspen stand with pine and oak throughout. Some variability in species composition, areas where pine/oak are more prevalent but overall considered aspen stand. SW facing slope is steep, potentially operable in spots but base of slope is essentially at RMZ of creek and NCT, motorcycle trail also traverses stand at top of ridge.																																													
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35	3201 - Sweet Fern	Unspecified	1.7			No	Another nice sweetfern opening. Blown-over pine blocks access. Leave as-is. Couple nice snags NW corner.																																														
36	4310 - Pine, Oak Mix	Sawtimber Well	26.4	105	141-170	N/A		Oak, pine stand of natural origin, some large trees throughout stand. Advanced understory of primarily white pine developing, also intermediate canopy of white pine, white oak and red maple in areas of stand. Jack pine scattered throughout stand, low density, fair quality.																																													
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37	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	25.9	16	1-50	N/A	Mixed stand of regen consisting mainly of jack pine and white oak resulting from 2009 harvest, scattered white oak, red pine and white pine overstory retained, also featured in canopy species.																																																		
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38	4130 - Aspen	Sapling Well	5.4	27	Immature	N/A	Regenerating aspen stand, converting from sapling to pole, will be small pole next yoe. White Pine and jack pine present in southern portion of stand. Trace pine oak in stand as well, retained at time of last harvest.																																																		
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39	4199 - Other Mixed Upland Deciduous	Sapling Well	14.9	27	201+	N/A	Mixed regen throughout, primarily aspen, white oak and red maple resulting from 1998 harvest. Retained overstory of pine and white oak is featured in canopy as well, averaging ~10 ba overall, slightly less in many areas of stand.																																																		
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40	3201 - Sweet Fern	Unspecified	2.1			No	Nice sweetfern opening.																																																		
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41	4126 - White, Black, N. Pin Oak	Sapling Poor	54.6	9	1-50	N/A																																																														
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42	4122 - Oak, Pine	Sawtimber Poor	55.5	89	51-80	N/A	Stand resulting from seed tree harvest in 2009, full stocking of mixed regen, mainly white oak and jack pine. White oak, red pine and white pine make up scattered retention from harvest, featured in canopy but this is a two aged stand with generally full stocking of regenerating species surrounding seed tree retention.																																																													
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43	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	5.4	35	1-50	N/A	Old well site or opening filling in with regeneration, also some scattered larger trees around perimeter. ~30-40% canopy closure overall, variable size classes.																																																													
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44	4310 - Pine, Oak Mix	Poletimber Well	83.9	30	1-50	N/A	Uniform canopy coverage consisting primarily of jack pine pole/sap sized regeneration along with white pine, white oak and lower stocking of additional species - this regen appears to have been released at time of harvest which took place in 2010, originally resulting from a harvest in 1994. In addition, scattered red pine, white oak and white pine throughout remaining from last harvest. Jack pine averages small pole of ~5" but is pole/saplings in size.																																																													
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45	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	33.9	105	51-80	N/A	Mixed upland stand, some variability in species composition with pockets heavier to pine component, areas of more concentrated white oak and also aspen clones present. Jack pine and red maple uniformly distributed throughout. White oak regen concentrated in areas where oak is more prominent.																																																											
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46	110 - Low Intensity Urban	Unspecified	2.9			No	Oil well site. Has a cap on the pipe.																																																											
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47	6139 - Mixed Lowland Forest	Sawtimber Well	39.4	90	111-140	N/A	Lowland/upland stand, includes creek bottom and RMZ along with slope to creek, specifically along southern edge of stand where more upland is included but is essentially the same stand and will be included in hard-factored area.																																																											
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48	42250 - Pine, Oak	Sawtimber Poor	58.7	75	1-50	N/A	Stand is a mix of primarily red pine and white oak making up the overstory from a seed tree harvest in 2010 - overstory species are featured thus the 25-50% canopy closure identified. Understory recruiting well, mainly consisting of jack pine, white oak and red and white pine at lower densities, some of which was released from harvest, other areas of ~14 year old regen. BA of red pine and white oak averages about 35 BA with some pockets slightly higher mainly along Mayfield rd, other areas are not stocked with merchantable timber but have very dense regen.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
49	42260 - Natural Pine, Mixed Deciduous	Sapling Well	262.7	17	Immature	N/A	Mixed stand regenerating from harvest in 2007, generally dominated by jack pine with white oak, red maple and cherry present as well. Scattered retention mainly consisting of white oak and red pine, some trace jack pine and balsam fir poles present as well.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		5		12	80		
White Oak		2		12			
White Oak		15	Log	2			
Red Maple		5	Log	2			
Bigtooth Aspen		5	Log	1			
White Pine		5	Log	1			
Jack Pine		58	Log	2	17		
Black Cherry		5	Log	1			
50	6233 - Wet Meadow	Unspecified	4.9			No	Twenty two creek runs through. Cedar is dead and dying. Mostly sedges with traces of fern and other forbs.
51	4126 - White, Black, N. Pin Oak	Poletimber Poor	8.2	120	1-50	N/A	Stand resulting from 2018 harvest, some trace regen, overstory oak retained, oak barrens type stand. NCT traverses stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		2		14			
White Oak		91		14	120		
White Pine		2		14			
Black Cherry		5	Seedling	8			
52	4319 - Mixed Upland Forest	Sapling Well	28.1	17	Immature	N/A	Mixed stand, regenerating well following harvest. Retained white oak and red pine in good condition. Regen is variable in terms of species composition, appears jack pine is dominant in general with pockets of white oak and aspen also quite prevalent.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		5	Log	1			
Jack Pine		35	Log	2	17		
Black Cherry		5	Log	1	17		
Red Pine		2		8			
White Oak		3		9			
White Oak		15	Log	1	17		
Red Maple		15	Log	2	17		
Bigtooth Aspen		20	Log	1	17		
53	6220 - Alder/Willow	Unspecified	14.5			No	
54	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	6.0	15	Immature	N/A	Red pine that was planted growing well and pockets are free to grow, however significant variability in stocking and species composition. Developing into mixed stand overall with pockets of aspen, jack pine, red maple and cherry. Some browsed white oak present as well.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		50	Log	2	15		
Jack Pine		20	Log	1	15		
Black Cherry		10	Log	1	15		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
55	3104 - Degraded	Unspecified	1.3			No	Old well site, beginning to fill in with conifer and deciduous species. Could probably include in Carpenter Creek burn complex at this time, not sure of current ground cover and/or if this area is degraded/bare soil.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Trace	5 - 10 feet	5 - 10 feet	
								Spotted Knapweed	Full	Not Applicable	Not Applicable	
								Sweet Fern	Low	5 - 10 feet	5 - 10 feet	
56	6233 - Wet Meadow	Unspecified	3.1			No	Sedge meadow. Evidence of an old beaver flooding.					
57	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.3	2	1-50	N/A	Lightly stocked multi-part stand resulting from dieback pockets that were harvested following 2020 red pine thinning. Mainly deciduous regen but some white pine and trace red pine.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	40	Log	1	2
								Beech	15	Log	1	2
								White Pine	5	Log	1	2
Black Cherry	40	Log	2	2								
58	4310 - Pine, Oak Mix	Sapling Poor	1.7	20	Immature	N/A	Small mixed species stand, regen resulting from harvest 30 years ago, overstory oak present.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	20		12	105
								White Oak	20		12	105
								White Pine	30	Log	2	20
								Jack Pine	20	Log	1	20
								Black Cherry	10	Log	1	30
60	4310 - Pine, Oak Mix	Sawtimber Well	5.4	105	111-140	N/A	Large oak and pine island within larger plantation area established in recent years. Recommend for long term retention, at least until red pine is established and further develops.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	30		12	65
								Jack Pine	10		10	65
								Red Pine	10		12	65
								White Oak	30		16	105
								Red Oak	20		16	105
								Sub-Canopy Species	Density	Avg. Height	Size	
White Pine	Low	5 - 10 feet	5 - 10 feet									
Red Maple	Low	5 - 10 feet	5 - 10 feet									
62	4133 - Aspen, Mixed Pine	Sapling Well	1.6	30	Immature	N/A	Primarily aspen and red maple regen along with scattered oak and older pine.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Oak	3		14	105
								Balsam Fir	2	Log	2	
								Red Oak	2		12	105
								Red Maple	10	Log	2	30
								Bigtooth Aspen	63	Pole	3	30
								White Pine	20	Log	2	20
Sub-Canopy Species	Density	Avg. Height	Size									
White Pine	Medium	5 - 10 feet	5 - 10 feet									

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																			
63	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	2.4	90	111-140	N/A	Small stand, majority lowland with upland edges. Dense understory of balsam in spots, some large cedar present. 22 Creek flows through center of stand.																																																																			
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64	330 - Low-Density Trees	Unspecifed	245.4			Yes	Carpenter Creek Rx burn area.																																																																			
65	3201 - Sweet Fern	Unspecified	2.7			No	Old well site, slowly seeding in with jack pine. Retained previous species composition.																																																																			
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67	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	84.5	15	81-110	N/A	Stand consists of dense regen, 10-20' in height resulting from 2009 harvest. Scattered red pine along with white oak and a few red oak retained at time of harvest. Red pine that was planted in 2011 is patchy, some uniform areas where it's free to grow and others where it is present but over topped - in general this is a mixed stand with white oak dominant at this stage of inventory. Should develop into a nice mixed stand, fully stocked. TS# 072-07. Harvested fall 2009. Planted spring 2011. Planted red pine with oak, jp, aspen, rm, wp, ba that started after harvest. Retention of log sized oak and pine from last treatment. Heavy browsing on oak but some is growing through. Good pine site but also good deciduous mix coming in.																																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
68	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	16.3	138	111-140	N/A	Large, old white pine and oak along with scattered old red pine distributed throughout - aspen has filled in with wp, jp, rm, aspen, 45 years old. Jack pine more prevalent in western tip of stand. Topographically stand is generally 2-5' above creek bed, some lowland influence in areas of stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	40		18	138	Balsam Fir	Low		5 - 10 feet	5 - 10 feet
Jack Pine	10		12		Red Maple	Medium		5 - 10 feet	5 - 10 feet
Red Oak	5		18		White Pine	Medium		5 - 10 feet	5 - 10 feet
White Oak	5		14						
Balsam Fir	5	Seedling	6						
Red Pine	15		16						
Red Maple	15		9	65					
Bigtooth Aspen	5		14						
69	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	67.9	15	1-50	N/A	Mixed stand with dense, mixed species, specifically white oak, jack pine, white pine and evenly distributed red maple and aspen - this advanced regen averages 10-25' in height. Red pine, white pine and white oak along with some red oak make up retained overstory from last harvest, featured with advanced regen as overall canopy. Witch hazel and white pine filling in under advanced regen, 3-6' in height.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	5		14		White Pine	Medium		5 - 10 feet	5 - 10 feet
White Oak	5		14	91	Witch Hazel	Low		5 - 10 feet	5 - 10 feet
White Oak	20	Log	2	15					
Red Maple	15	Log	1	15					
Bigtooth Aspen	25	Log	2	15					
White Pine	2		15						
White Pine	10	Log	2	15					
Jack Pine	10	Log	2	15					
Red Oak	3		15						
70	4311 - Pine, Aspen Mix	Poletimber Well	22.1	35	51-80	N/A	Mixed stand, consisting mainly of white pine of somewhat variable dbh, averages 6-8", along with aspen averaging ~5-6" dbh with some variability. In addition, red pine, white oak and red oak present along with jack pine and red maple. Some dense pockets of white oak regeneration, mainly where white pine is not as dense.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Oak	5		14	105	White Oak	Medium		10 - 20 feet	10 - 20 feet
Red Oak	5		14	105	Red Pine	Low		< 5 feet	< 5 feet
Northern Pin Oak	2		13	105	White Pine	Low		< 5 feet	< 5 feet
Red Pine	5	Seedling	7	75	Jack Pine	Low		< 5 feet	< 5 feet
White Pine	45		6	35	Black Cherry	Low		5 - 10 feet	5 - 10 feet
Jack Pine	5	Sapling	5	35	Witch Hazel	Low		5 - 10 feet	5 - 10 feet
Red Maple	8	Sapling	5	70					
Bigtooth Aspen	25	Sapling	5	35					

Stand	Level 4 Cover Type			Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
71	42110 - Planted Red Pine			Sawtimber Well	132.3	94	81-110	N/A	Red pine stand with white oak and red oak present in canopy, most notably in south and north portions of stand. Red pine is decent quality, looks to be two aged with trace, plate bark and occasionally fire scarred red pine, larger than average red pine common throughout stand. Understory ~25 years in age advancing well into lower canopy. Made up of a diverse mix of species including jack pine (thick in areas), white oak, red pine, white pine, red maple and aspen. Canopy closure estimated at 75% overall, some pockets slightly lower while others are closer to 100%. Ba is variable but averages ~100. Planting records show this stand was planted in 1931, previously identified as a natural pine stand.																																																		
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72	4310 - Pine, Oak Mix			Sapling Poor	12.8	15	Immature	N/A	Heavier aspen sprouting in south end over topping planted red pine. Planted red pine still surviving but generally topped by oak, maple and aspen sprouts. Scattered oak and red pine log sized retention age 95.																																																		
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73	42250 - Pine, Oak			Poletimber Medium	6.2	101	1-50	N/A	Good quality, large overstory red and white pine retained at time of last harvest along with scattered single stem white oak. Advanced regen released at time of harvest is growing well and new cohort of regen is established, mainly from stump sprouts. Retained overstory featured as canopy. 2020: edge call after last harvest. Verify at inventory.																																																		
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74	4310 - Pine, Oak Mix			Sawtimber Well	8.6	105	81-110	N/A	Large white oak with other canopy species filling in, likely resulting from past harvest or disturbance. White Pine medium density in understory with red maple and white oak filling in.																																																		
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77	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	21.5	90	111-140	N/A	Low area along drainage, low stocking in areas specifically in NW. Some historic beaver activity, stand is generally lowland but includes slopes leading to upland as part of RMZ.																																																											
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78	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	51.2	105	111-140	N/A	Mixed pine oak stand with scattered aspen and red maple. Pockets of dense regen and other areas where regen is lighter or more mid canopy white pine are present. Pockets of very large white and red pine.																																																											
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79	4310 - Pine, Oak Mix	Poletimber Well	16.4	65	81-110	N/A	Pine oak stand with some stocking and species composition variability throughout. Jack pine is more of a component in northern half. Regen, specifically white pine and white oak is dense in spots. Aspen is uniformly distributed throughout with some denser pockets, overall fair quality but a bit suppressed. Should regenerate well.																																																											
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80	42250 - Pine, Oak	Sawtimber Poor	7.5	85	1-50	N/A	Split off from stand 90 which was harvested under TS# 059-16. Records show this stand was harvested by timber trespass (adjacent private property), approximately 6 acres. (old notes) their cutting line drifted to the west after a good start in the SE corner of the state land. Good aspen regeneration on the part that was harvested in the spring.																																																											
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Stand	Level 4 Cover Type	Size Density		Acres	Stand Age	BA Range	Managed Site	General Comments					
81	4191 - Mixed Upland Deciduous with Conifer	Sapling Well		28.5	16	1-50	N/A	Mixed stand of deciduous regen with white pine also present throughout. Red pine, white pine and white oak overstory retained last harvest. 2019: TS#063-17. Removed most over story to release advanced regen in understory. Scattered retention of pine oak and maple. Canopy call on age class that developed after 2009 harvest. Verify at next inventory.					
Canopy Species		% Cover	Size Class	DBH	Age								
Red Pine		2		12	80								
White Oak		2		13									
White Oak		20	Log	1	16								
Red Oak		15	Log	1	16								
Red Maple		16	Log	1	16								
Bigtooth Aspen		20	Log	1	16								
White Pine		2		14									
White Pine		18	Log	1	16								
82	4133 - Aspen, Mixed Pine	Poletimber Well		12.0	55	81-110	N/A	Aspen stand with pine component, specifically red pine. Variable stocking in northern portion of stand, better quality and stocking in southern 2/3 of stand.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size		
White Pine		10	Sapling	5		Red Pine			Low	5 - 10 feet	5 - 10 feet		
Jack Pine		10	Seedling	8	55	White Pine			Medium	5 - 10 feet	5 - 10 feet		
Quaking Aspen		30	Seedling	8	55	Jack Pine			Low	5 - 10 feet	5 - 10 feet		
White Oak		5		14	105								
Red Pine		10		10									
Red Maple		5	Seedling	7									
Bigtooth Aspen		30		8	55								
83	2113 - Forage Crops	Unspecified		3.4			No		Maintained opening, scattered islands of primarily deciduous trees throughout.				
Sub-Canopy Species		Density		Avg. Height		Size							
Red Maple		Low		>20 feet		>20 feet							
Rye (annual)		Full		Not Applicable		Not Applicable							
Red Oak		Low		>20 feet		>20 feet							
84	4130 - Aspen	Sapling Well		20.4	16	1-50	N/A	Very good aspen regen with scattered oak and pine retention. Some decent red maple and white pine regen present as well.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species					Density	Avg. Height	Size
White Oak		5	Log	1	16	White Pine					Medium	< 5 feet	< 5 feet
Red Pine		2	Log	3		Hawthorn (spp.)					Low	5 - 10 feet	5 - 10 feet
Red Oak		2	Log	1	16								
White Pine		10	Log	2									
Black Cherry		2	Log	1	16								
Red Maple		10	Log	2	16								
Bigtooth Aspen		69	Log	2	16								

Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
85	4311 - Pine, Aspen Mix	Poletimber Well			9.9	55	81-110	N/A	Mix of wp and aspen grown in among residual pine and oak. White pine is heavier stocking on west side with aspen more prominent in east.																																																																	
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86	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well			8.4	90	81-110	N/A	Red and white pine stand with aspen distributed throughout. Scattered red maple, oak and jack pine distributed throughout as well. Orv/cycle trail in stand.																																																																	
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87	42290 - Natural Mixed Pine	Sawtimber Well			13.2	124	81-110	N/A	Predominantly white and red pine stand with oak and red maple more prevalent in eastern portion of stand. White Pine and red pine are quite large especially in western 2/3 of stand, natural origin and many legacy sized trees throughout of both species. Cored representative white pine at 124 age, could be slightly older.																																																																	
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90	42250 - Pine, Oak	Sawtimber Poor			14.2	85	1-50	N/A	Aspen regenerating very well along with white pine and red maple. Retained overstory featured as canopy species, in good condition at this time. Stand is providing good early successional cover along with vertical structure.																																																																	
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91	4311 - Pine, Aspen Mix	Poletimber Well	24.1	55	81-110	N/A	Pole sized aspen stand with two aged natural origin white pine. Pole sized class concentrated in western portion of stand while larger super canopy trees are evenly distributed throughout. Aspen is small dbh for age, some size and stocking variability. Need to confirm age of aspen. High water table in some small areas, looks to be a seasonal drain separating main portion of stand from NW lobe. NW portion of stand is where red pine is located.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Pine	5		15	
								Red Maple	10	Seedling	8	55
								Bigtooth Aspen	45	Seedling	7	55
								White Pine	25		20	120
								White Pine	10	Sapling	7	
								Jack Pine	5		9	85
								Sub-Canopy Species	Density	Avg. Height	Size	
White Pine	Medium	5 - 10 feet	5 - 10 feet									
Red Maple	Medium	>20 feet	>20 feet									
92	4133 - Aspen, Mixed Pine	Poletimber Well	21.8	55	111-140	N/A	Aspen stand with white pine throughout, specifically pockets of higher density advanced saplings/small poles. Some aspen falling out of stand. Pockets of good quality aspen and more uniform stocking.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Oak	2		14	90
								Red Pine	2		14	95
								Red Maple	5	Seedling	8	
								Bigtooth Aspen	10	Seedling	8	55
								Red Oak	2		14	95
								White Pine	30		8	55
								Jack Pine	4	Sapling	6	
Quaking Aspen	45	Seedling	8	55								
93	6239 - Mixed Emergent Wetland	Unspecified	10.6			No	Area of blowdown, or flooded and overstory died and fell over. Some dead standing, scattered red maple alive w/in stand.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Trace	>20 feet	>20 feet	
								Cattail spp.	Medium	Not Applicable	Not Applicable	
								Willow spp.	Trace	5 - 10 feet	5 - 10 feet	
								Mixed Grasses	Medium	Not Applicable	Not Applicable	
								Bulrush	Trace	Not Applicable	Not Applicable	
								Alder	Trace	5 - 10 feet	5 - 10 feet	
								94	2113 - Forage Crops	Unspecified	6.2	
Sub-Canopy Species	Density	Avg. Height	Size									
Rye (annual)	Full	Not Applicable	Not Applicable									
White Pine	Low	>20 feet	>20 feet									
White Oak	Low	5 - 10 feet	5 - 10 feet									
Red Oak	Low	>20 feet	>20 feet									

Stand	Level 4 Cover Type	Size Density		Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
95	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well		26.3	105	111-140	N/A	Generally lowland stand with some hummocky areas and small upland inclusions less than .5 ac. Some large white pine throughout especially along west and nw edge. Some large cedar as well, pockets of blowdown. Numerous seeps leading northward to creek.																																																								
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96	429 - Mixed Upland Conifers	Sawtimber Well		9.2	118	171-200	N/A	Large "old Growth" natural pine stand with deciduous component throughout, primarily in eastern lobe. Western finger is more uniform pine stocking. Larger aspen is beginning to die out forming nice standing snags. Stick nest in large aspen in eastern area of stand. High water table influence in stand adjacent to stand 95/Q-type. Recommend keeping in natural state. Trace red oak in canopy.																																																								
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98	42110 - Planted Red Pine	Sawtimber Well		41.8	65	111-140	N/A	Decent quality red pine stand, recently thinned and responding well overall. Dieback pockets and buffer were cut out of stand in 2023. Scattered beech, balsam fir and white pine scattered throughout understory. Current BA averages 140 square ft/ac.																																																								
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99	4113 - R.Maple, Conifer	Sawtimber Well		3.6	90	81-110	N/A	High water table influence in much of stand, mix of red maple with cedar, hemlock and balsam fir. White Pine present as well. Stand provides nice pockets of thermal cover at northern edge of regenerating aspen stand. Some blow down throughout providing good source of course woody debris.																																																								
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100	31022 - Warm Season Grass	Unspecified	12.4			No	Fire-break between red pine stands, slowly filling in with white pine, red pine and jack pine saplings, advanced regen size. On the cusp of 25-50% canopy closure. If/when red pine plantations are restarted, recommend replanting this area with plantation area to make one contiguous plantation.
103	122 - Road/Parking Lot	Unspecified	3.2			No	
104	31022 - Warm Season Grass	Unspecified	27.2			No	Clumps of pine & upland deciduous. Lots of little bluestem. Old homestead site SE side with walnut and apple trees, also surrounded by larger, open grown sugar maple.
105	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	33.6	90	141-170	N/A	Mostly lowland, hummocky ground with some small areas of upland inclusions, specifically in NW portion of stand. Looks like it was possibly an old well pad? Mixed pine present in this area of stand.
106	42110 - Planted Red Pine	Poletimber Well	25.6	68	111-140	N/A	Stand responding well to recent thinning in 2020, stocking consistent throughout averaging ~130BA. Die back pockets in north and south areas of multi part stand. *merge 106 & 108.

Stand	Level 4 Cover Type	Size Density		Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
107	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	6.2	20	1-50	N/A		Red pine growing well although variable stocking in much of stand. Transitioning from sapling to pole sized, fair amount of merchantable sized stems but determined average dbh to be 4". Good growth rates overall, some jack pine mixed in along with a fair amount of cherry in areas where red pine did not survive.																																																												
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109	4133 - Aspen, Mixed Pine	Sapling Well	24.4	36	1-50	N/A		Aspen small pole/large sapling stand with substantial white pine component specifically in SE area of stand adjacent to lowland type. Some high water table and hummocks in this area, aspen was either outcompeted by white pine or did not regenerate due to wet soils in this portion of stand.																																																												
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110	42290 - Natural Mixed Pine	Poletimber Well	16.6	56	81-110	N/A		JP and WP that has been slowly seeding in to pockets. A few red pine poles. Various age classes resulting. Most is getting to a merchantable size. Large weeviled white pine scattered around along with some bushy open grown beech and trace aspen of poor quality. Small aspen clone at northern tip of stand. A few log sized red oak and maple. Portions of stand along east edge have planted red pine in the smaller pole class.																																																												
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111	4319 - Mixed Upland Forest	Sapling Medium	8.2	6	81-110	N/A		Regenerating stand with residual overstory white and red pine retained from last harvest. Slowly filling in, some areas of light regen along with areas where red maple has been browsed.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
112	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	9.0	90	141-170	N/A	Lots of deer activity in stand, dense lowland conifer overstory providing good thermal cover. Hummocky ground, generally lowland throughout.																																																		
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113	4133 - Aspen, Mixed Pine	Sapling Well	4.4	16	1-50	N/A	Stand regenerating very well, good quality aspen, red maple and white lines stems throughout. Retention from last harvest in good condition with oak continuing to provide good mast source.																																																		
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114	4133 - Aspen, Mixed Pine	Sawtimber Well	3.9	55	141-170	N/A	Previously typed as Natural Pine, switched to planted, planting records show N1/2 of NE was planted in 1931. Pine was either thinned heavily in this area or the original plantation failed after 20-30 years allowing aspen and red maple to become the dominant overstory. Aspen pole/small log size.																																																		
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115	4130 - Aspen	Poletimber Well	15.1	30	51-80	N/A	Decent quality aspen stand, aspen averaging just merchantable dbh, typed stand as pole with aspen having 5" average dbh overall. Plenty of stems large sapling sized. White Pine regen beginning to fill in understory, red maple throughout in large sapling size class.																																																		
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116	42110 - Planted Red Pine	Sawtimber Well	6.2	94	111-140	N/A	Part of larger adjacent pine stand, sepersted after it was thinned in 99. Slightly lower stocking with more advanced regeneration, consisting mainly of white pine. Previously identified as Natural Pine, switched to planted in 1931 after looking at planting records for stand.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
117	4130 - Aspen	Sapling Well	20.2	6	1-50	N/A	Stand regenerating well, fully stocked with aspen and red maple regen. Beech and white pine are a component of the regen as well.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	2		10	110	White Pine	Low		< 5 feet	< 5 feet
Sugar Maple	2		11	80					
Red Maple	30	Log	1	6					
Bigtooth Aspen	60		1	6					
Beech	4	Log	1						
Red Oak	2		14	110					
118	42140 - Planted Mixed Pine	Sawtimber Well	46.5	94	141-170	N/A	Good quality, mixed pine with aspen present throughout much of stand however there are areas that are void of aspen, these areas tend to be dominated by red pine. Scattered red oak present as well. Trace jack pine, most has fallen out or was cut, some dead standing. Occasional red and white pine legacy trees in stand. Found average BA to be 160, some stocking variability throughout stand. Trace paper birch in stand, most has died off but still standing.Previously typed as Natural Pine, switched to planted, planting records show N1/2 of NE was planted in 1931 with red pine, white pine and jack pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	47		13	94	Beech	Low		5 - 10 feet	5 - 10 feet
Red Oak	3		14		Red Maple	Low		10 - 20 feet	10 - 20 feet
Quaking Aspen	15		9		White Pine	Medium		10 - 20 feet	10 - 20 feet
White Pine	35		14	94					
119	4123 - Red Oak	Sawtimber Medium	43.2	90	81-110	N/A	Decent quality oak stand, dense advanced aspen regen in large sapling class mainly around perimeter of stand where aspen was likely more prevalent at time of last harvest. Central portion of stand has higher BA in the 100-120 sq ft/ac range with no aspen regen in this area of stand, medium density red maple regen.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	3	Seedling	8		White Pine	Medium		10 - 20 feet	10 - 20 feet
Red Pine	2		12		Red Maple	High		10 - 20 feet	10 - 20 feet
White Pine	5		10		Bigtooth Aspen	High		10 - 20 feet	10 - 20 feet
Red Oak	90		12	90					
120	4111 - S.Maple, Hard Mast Association	Sawtimber Well	20.0	105	81-110	N/A	Good quality hardwood stand, BA averages 110-120 consistently throughout. Scattered super canopy white pine, very good quality and likely closer to 150+ age class. Beech regen is thick throughout, very little desirable regeneration aside from trace sugar maple at edges of stand. Trace aspen in NW corner.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Beech	8		14	105	Black Cherry	Low		5 - 10 feet	5 - 10 feet
Red Oak	6		18	105	Beech	High		5 - 10 feet	5 - 10 feet
White Pine	7		19						
Sugar Maple	64		14	105					
Red Maple	15		14						
121	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	27.3	105	111-140	N/A	Mixed oak pine stand with aspen and red maple scattered throughout. Aspen mainly present in more uniform clones, 34 years old however some larger aspen present in lower numbers. Much of the red and white oak is large diameter and multi stem, some white and red oak poles present in the 5-8" size class. White Pine is variable diameter, fair amount of poles in the intermediate canopy along with larger stems occupying canopy level. Larger red pine present but higher density in eastern portion of stand. Old well site or opening reverting to forested, should be separated, consists of white oak, aspen and jack pine saps with red pine, white pine, aspen and red oak pole/logs present.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	10		12	73	White Pine	Low		5 - 10 feet	5 - 10 feet
Red Oak	20		18	105	Beech	Trace		5 - 10 feet	5 - 10 feet
White Pine	20	Pole	4	35	White Oak	Medium		5 - 10 feet	5 - 10 feet
White Pine	5		12		Witch Hazel	Low		5 - 10 feet	5 - 10 feet
Jack Pine	2	Seedling	8	73					
White Oak	20		16	105					
Red Maple	10	Sapling	5	35					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
122	4130 - Aspen	Sapling Well	6.5	16	Immature	N/A	Aspen growing well, fully stocked regenerating stand dominated by aspen and red maple.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	2	Pole	3		Beech	Low		< 5 feet	< 5 feet
Sugar Maple	3		12		Ironwood	Low		< 5 feet	< 5 feet
Red Maple	20	Log	2	16					
Bigtooth Aspen	75	Log	2	16					
123	4133 - Aspen, Mixed Pine	Sapling Well	14.7	16	81-110	N/A	Stand regenerating well, ~10-30 ba of red and white pine and red oak were retained at time of last harvest.		
Canopy Species	% Cover	Size Class	DBH	Age					
White Pine	10		12	85					
Red Pine	10		9	85					
Red Oak	5		12	85					
Red Maple	20	Log	2	16					
Bigtooth Aspen	55	Log	2	16					
124	42110 - Planted Red Pine	Pole timber Well	25.1	65	111-140	N/A	Stand responding well to 2020 thinning, growing well and good quality. Fair amoint of beech and white pine regen in understory. Pole sized, transitioning to log sized with average dbh of 9-10".		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	100		9	65	White Pine	Medium		5 - 10 feet	5 - 10 feet
					Beech	Medium	5 - 10 feet	5 - 10 feet	
125	42110 - Planted Red Pine	Sawtimber Well	30.3	85	81-110	N/A	Marked harvest completed 2015, stand responding well, good quality red pine. BA hovering around 110 overall with some stocking variability in areas of stand. Fairly heavy white pine, beech and aspen regen throughout.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	2		12		White Pine	Medium		5 - 10 feet	5 - 10 feet
Red Pine	96		12	85	Red Maple	Medium		10 - 20 feet	10 - 20 feet
Red Maple	2		12	85	Bigtooth Aspen	Medium		10 - 20 feet	10 - 20 feet
					Beech	Medium	10 - 20 feet	10 - 20 feet	
126	310 - Herbaceous Openland	Unspecified	8.0			No	Opening seeding in with bushy white pine. Jack pine and red maple present as well.		
					Sub-Canopy Species	Density		Avg. Height	Size
					White Pine	Medium	10 - 20 feet	10 - 20 feet	
127	4131 - Aspen, Oak	Sawtimber Well	8.1	70	111-140	N/A	New stand created by timber sale boundary when adjacent stand 69 was harvested. Slope along Twenty-two creek, somewhat steep in spots, generally provides a good corridor along creek and adjacent to RMZ. Aspen is relatively large diameter providing good standing snags in spots and excellent source of course woody debris. In addition, motorized trail transects stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	2		12		White Pine	Medium		Variable	Variable
White Oak	20		14		Red Maple	Medium		5 - 10 feet	5 - 10 feet
Red Oak	15		14						
Red Maple	10		8						
Bigtooth Aspen	45		12	70					
White Pine	3		14						
Jack Pine	5	Seedling	8						

Stand	Level 4 Cover Type		Size Density		Acres	Stand Age	BA Range	Managed Site	General Comments			
128	4130 - Aspen		Sapling Well		14.0	17	1-50	N/A	Aspen growing well, high density stems/ac and fairly good quality overall. Conifer component of white pine, jack pine and balsam fir regenerating in understory. In addition, scattered red maple and white pine present, retained at time of last harvest.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density			Avg. Height	Size
	White Oak	2		13		White Pine		Low			5 - 10 feet	5 - 10 feet
	Red Maple	3		14	90	Jack Pine		Low			5 - 10 feet	5 - 10 feet
	Red Maple	10	Log	1	17	Balsam Fir		Low			5 - 10 feet	5 - 10 feet
	Paper Birch	5	Log	1	13							
	Bigtooth Aspen	80	Log	2	17							
	42220 - Natural Jack Pine		Sapling Well		1.9	17	Immature	N/A			Regenerating pine stand, dominated by sapling jack pine. Fairly dense overall.	
Canopy Species	% Cover	Size Class	DBH	Age								
Red Maple	5	Log	2	17								
White Pine	10	Log	2									
Jack Pine	80	Log	2	17								
Red Pine	5	Log	2	17								