



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61152

Entry Year 2026

Acreage: 1,784

County Kalkaska

Management Area: High Sand Plains

Stand Examiner: Steve Crigier

Legal Description:

T25N R6W Sections 31, 32, and 33

Identified Planning Goals:

Vegetation management in the Manistee River Valley management area will provide timber products; maintain or enhance wildlife habitat; protect areas of unique character including the Manistee River and its tributaries, a designated natural river; protect threatened, endangered and special concern species; and provide for forest-based recreational uses. Most of this management area sits on glacial outwash plain. A history of intensive management has resulted in the varied forest cover types present today. Timber management will emphasize aspen harvests to maintain early successional habitat for hunting and other wildlife-related recreational opportunities; increasing regeneration of oak; balancing the red pine age class structure through final harvests and re-planting; and improving red pine quality through partial harvests. Expected trends within this 10-year planning period are increased recreational pressure, especially on the established trails and along the Manistee River and its tributaries; a need to restore barrens communities through prescribed fire; and invasive plant control.

Soil and topography:

The predominant soils are Rubicon, Graycalm, Croswell and other sands with Tawas-Lupton mucks along the stream corridors. The compartment is generally flat but contains some narrow stream valleys along Little Cannon Creek and its tributaries. The east half of Section 33 rises into hardwood-covered moraine hills.

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

The entire compartment is state-owned land except for the northeast quarter of Section 31 which has multiple private residences and seasonal cabins. The compartment is mostly surrounded by state land except for a few scattered privately owned 40-acre parcels. In 2001, 18.6 acres in Section 31 NESE (Stand 35) was administratively transferred to Michigan State Police for a communications tower.

Unique Natural Features:

Some of the compartment is potential habitat for wood turtle (State SC). The lowland areas may provide adequate habitat for Eastern massasauga rattlesnakes (State SC and federal candidate).

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

Sections 32 and 33 are part of the long-term lease with Camp Grayling for military training. As tributaries of the Manistee River, Little Cannon Creek and its tributaries are protected by Natural Rivers designation.

Watershed and Fisheries Considerations:

The headwaters of Little Cannon Creek, a tributary of the Manistee River, start from a spring in Section 31. Little Cannon Creek, a Designated Trout Stream, has very cold temperatures and self-sustaining populations of brook and brown trout. Whiskey Creek, a headwater tributary to Little Cannon Creek, also has self-sustaining populations of brook trout.

Wildlife Habitat Considerations:

Compartment 152 is located near the Missaukee County border in south-central Kalkaska County. Big Cannon Creek transects parts of this compartment.

The west half of this compartment consist of pine stands, oak, and aspen. These stands are located on an outwash plain with sandy soils (LTA 5111). Within the pine plantations, management practices should encourage some diversity with respect to the fire history of this LTA type. Other stands should include management practices that mimic natural disturbance, when applicable. This may include "leave" trees and the creation of coarse woody debris (CWD). Areas of oak should reflect best management practices that would regenerate this specie while providing mast for available wildlife. Aspen should focus on variable-aged stands within the compartment and the inclusion of large CWD for future grouse drumming logs. Animals that you may find here would be white-tailed deer, ruffed grouse, and garter snake.

A small area of lowlands with poorly drained soils is in Sec. 31 (LTA 5149). Red-shouldered hawks have been heard here and management practices should reflect maintaining this habitat type. Occasional cuts that would mimic a natural disturbance (windthrow) may be beneficial in future years. Big Cannon Creek had past reports of wood turtle and this LTA type is desirable for massasauga rattlesnake.

The majority of Sec. 33 within compartment 152 is located on an irregular ice-contact ridge with excessively drained soils (LTA 3111). Mostly hardwood stands, management practices should maintain species diversification among the tree species, while keeping this area at a mid-successional stage. This would benefit many wildlife species, including white-tailed deer and ruffed grouse. The creation of coarse woody debris (CWD) and/or leaving of snags would benefit many wildlife species. Maintaining mast-producing trees or implementing timber practices that would regenerate these tree species is desirable.

Mineral Resource and Development Concerns and/or Restrictions

There is no known metallic mineral potential in this part of the state. The State-owned Naples Road sand/gravel pit is within the compartment, at the far eastern end. The pit has not been leased for commercial use in the last 20 years but was never restored after the last permitted use. Perhaps some internal DNR use still occurs, but the pit has not recently been evaluated for future additional aggregate potential, and it appears it has seen a lot of ORV activity. There is some potential for additional sand & gravel within the compartment on the uplands, but demand for aggregate in the area may be limited to local road maintenance. The southwestern portion of the compartment occurs on the edge of the mostly abandoned Cannon Creek oil & gas field. Just one producing well remains active in the field. In addition, there was some minor production of hydrocarbons from the Collingwood Formation a couple miles west of the compartment.

Vehicle Access:

There is sufficient vehicle access throughout the compartment. The road along the south edge of Section 33 may need improvement or closure if erosion becomes a problem.

Survey Needs:

There are no survey needs at this time.

Recreational Facilities and Opportunities:

Significant stretches of the North Missaukee Motorcycle Trail run through the entire compartment. The Miss-Kal Snowmobile Trail runs through the south part of Section 31. The North Missaukee ORV Route runs on a two-track through Sections 32 and 33. Appropriate trail protection specifications should be added to the timber sale contracts to reduce impacts to trails where treatments are prescribed. Other recreational opportunities include hunting and trout fishing. (T.M.N. 5/15/14)

Fire Protection:

There is moderate potential for wildfire in this compartment, primarily in the planted pine stands of Sections 31 and 32. Grassy openings were included as firebreaks in some of these plantations. The spread of fire would also be checked by stream corridors and wet stands or by incompatible timber types. Fire protection would be provided by the Kalkaska FRD office and the Garfield Fire Department.

Additional Compartment Information:

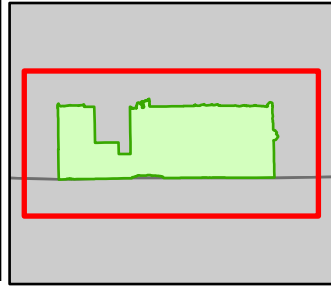
The following reports from the Inventory are attached:

- 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**

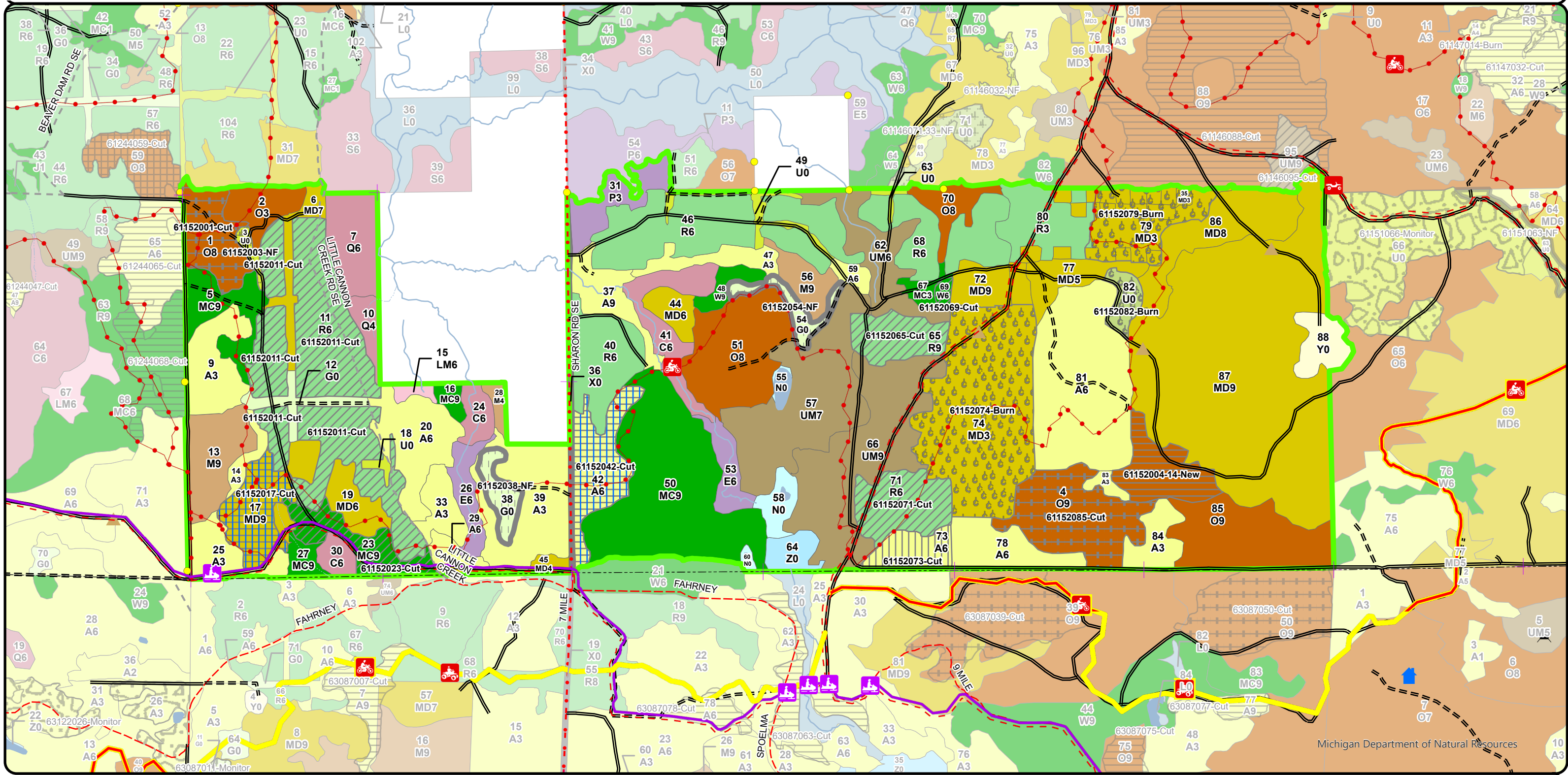
Cover Type & Treatments Map



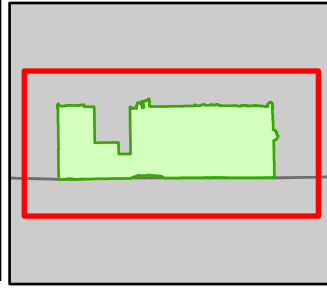
Compartment: 61152
 T25N, R6W, Sec: 31-33
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: High Sand Plains
 YOE: 2026
 Acres: 1783.8 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 07/09/2024
 Map Phase: Web-Post



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|----------------------|---------------------------------|---------------------------------|-------------------------------|------------------------------|------------------------------|---------------------------|-----------------------------------|---------------------------|--------------------------------|---------------------------------|
| House | ORV Trails | County - Gravel Road | County - Dirt Road (Seasonal) | Private - Dirt / Gravel Road | Drain | Intermittent Stream | Lake/Pond | Perennial River | Lakes and Rivers | Compartment Boundary |
| Berms | ORV Routes | Designated Motorcycle Trails | Designated ORV Routes | Designated MCCCT Trails | DNR - Secondary Forest Road | DNR - Forest Access Route | Snowmobile Trails | Sign | Survey Grade Corners | Remonumented Section Corners |
| Bridges | Motorcycle Trails (DNR License) | MCCCT Trails | Clearcut (w/Reserves) | Harvest, Overstory Removal | Prescribed Burn | Seed Tree (w/Reserves) | Thinning (Crown, Low, Systematic) | Shelter Wood (w/Reserves) | Opening Maintenance | 411 - Northern Hardwood |
| Sign | Motorcycle Trails (DNR License) | MCCCT Trails | 412 - Oak Types | 413 - Aspen Types | 419 - Mixed Upland Deciduous | 421 - Planted Pines | 422 - Natural Pines | 430 - Upland Mixed Forest | 611 - Lowland Deciduous Forest | 612 - Lowland Coniferous Forest |
| Survey Grade Corners | Remonumented Section Corners | Motorcycle Trails (DNR License) | 613 - Lowland Mixed Forest | 122 - Roads/Parking Lot | 310 - Herbaceous Openland | 320 - Upland Shrub | 330 - Low Density Trees | 500 - Water | 623 - Emergent Wetland | 710 - Sand/Soil |



Stand Boundary Map

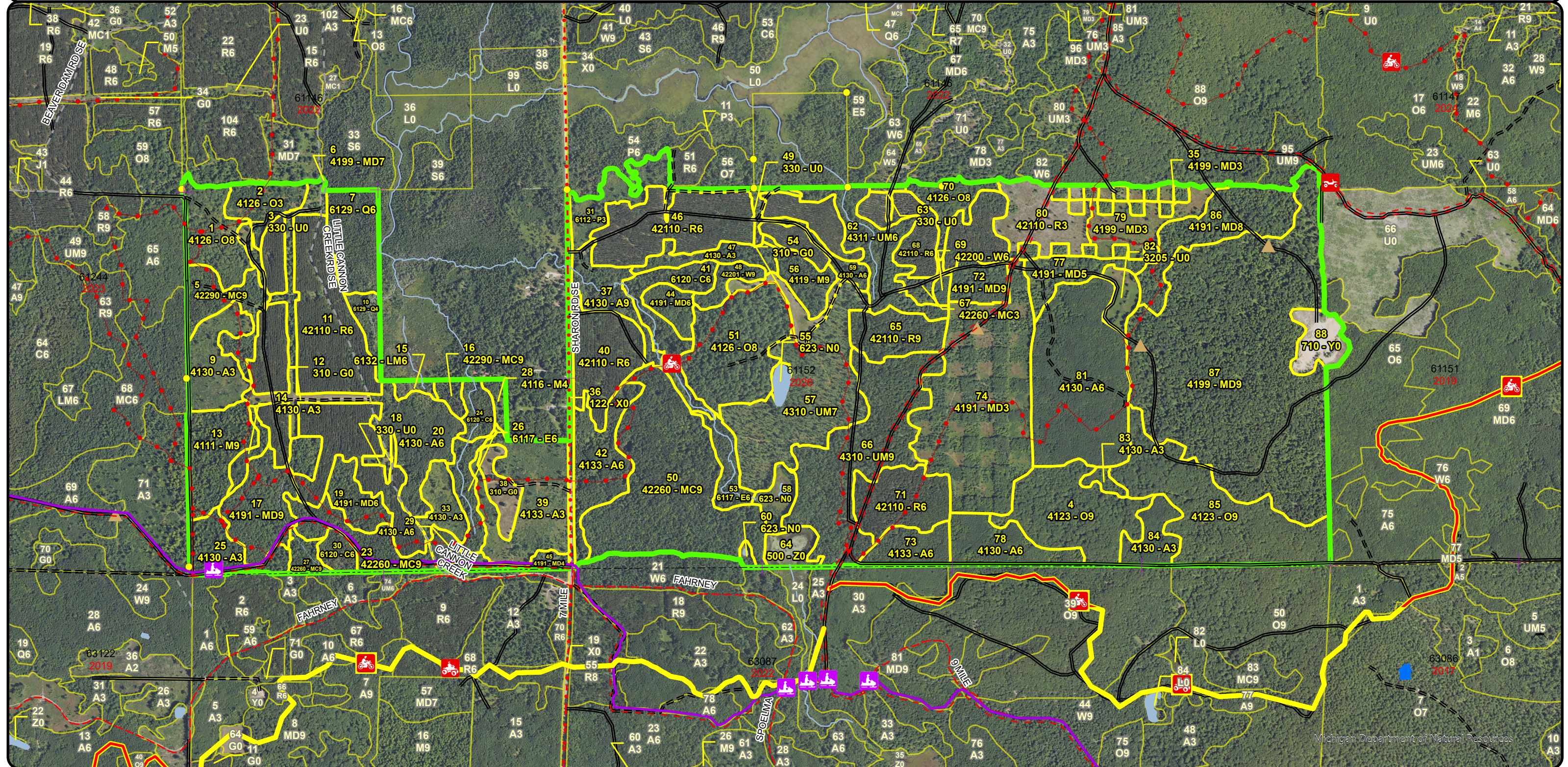


0 0.5 1 Miles

Compartment: 61152
 T25N, R6W, Sec:
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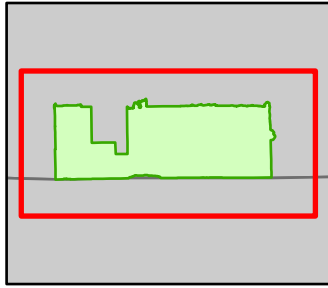
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- Berms
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- Motorcycle Trails (DNR License)
- MCCCT Trails
- ORV Trails
- ORV Routes
- Snowmobile Trails
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- Designated MCCCT Trails
- DNR - Secondary Forest Road
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- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Drain
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Counties
- Stand Boundaries
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types

- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
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- 500 - Water
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- State Forests



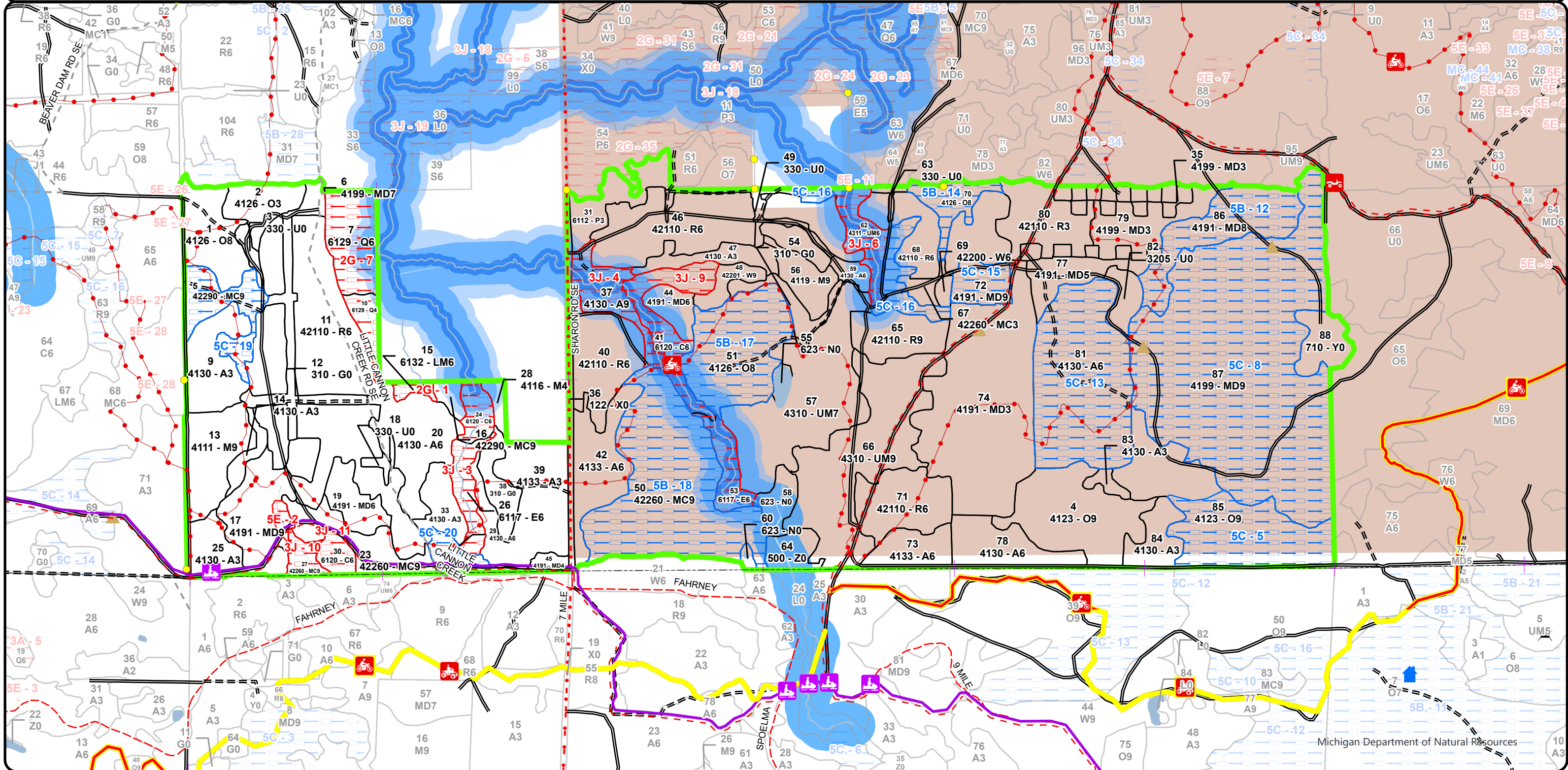
**Special Conservation Areas
& Site Conditions Map**

Compartment: 61152
 T25N, R6W, Sec:
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: High Sand Plains
 YOE: 2026
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- House
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- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Drain
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Counties
- Available w/ Constraints
- Unavailable

- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	72	32	15	49	96	26	16	0	0	0	0	0	0	0	0	0	0	306
Cedar	0	0	0	0	0	0	0	0	0	0	0	26	0	8	0	0	0	0	34
Herbaceous Openland	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Low-Density Trees	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Aspen/Balsam Poplar	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	7	0	0	22	0	0	0	0	29
Lowland Deciduous	0	0	0	0	0	0	0	0	11	0	10	0	0	0	0	0	0	0	21
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Marsh	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	0	23	94	14	14	5	42	8	11	0	245	0	0	0	0	0	0	0	455
Natural Mixed Pines	0	0	0	0	4	0	0	0	129	0	0	5	0	0	0	0	0	0	138
Northern Hardwood	0	0	0	0	0	0	0	4	0	25	11	0	0	0	0	0	0	0	40
Oak	0	0	13	0	0	0	0	0	0	0	151	12	22	0	0	0	0	0	198
Red Pine	0	24	0	0	0	0	119	151	0	0	0	0	0	0	0	0	0	0	293
Sand, Soil	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Upland Mixed Forest	0	0	0	0	0	0	0	0	89	0	0	0	0	0	0	0	0	68	157
Upland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	0	0	0	2	0	6	0	0	0	0	0	0	0	0	8
Total	85	135	139	29	67	101	187	181	240	34	424	43	22	30	0	0	0	68	1783



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 152
Total Compartment Acres: 1,784

Commercial Harvest - 320
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	0	0	0	26	13	0	0	0	0	39
Mixed Upland Deciduous	0	0	0	23	0	0	0	0	0	23
Natural Mixed Pines	0	0	0	0	0	19	0	0	0	19
Oak	22	0	0	0	0	0	65	0	0	87
Red Pine	0	0	0	0	0	151	0	0	0	151
White Pine	0	0	0	0	0	2	0	0	0	2
Total	22	0	0	49	13	172	65	0	0	320

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	320	0	0	0	128	0	0	0	20	469
Next Step	0	0	0	0	45	0	212	0	0	257
Total	320	0	0	0	173	0	212	0	20	726



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

Proposed Treatments:

1	61152001-Cut	21.8	4126 - White, Black, N. Pin Oak	Sawtimber Medium	115	51-80	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
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Prescription Overstory removal with Long term MO of oak/pine. Leave the aspen and red maple standing to avoid sprouting. Maintain a component of white oak, white pine and red pine in the overstory (~ 5-10 TPA). Avoid damage to the pine and oak understory. Apply oak wilt spec.

Next Step
Treatments:

Acceptable White oak, black/red oak, white and red pine, less amounts of aspen, red maple.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

3	61152003-NF	2.9	330 - Low-Density Trees	Nonstocked			Unspecified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub	No
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Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex. Possibly also could seed in additional native grasses and forbs.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

85	61152004-14-New	22.1	4123 - Red Oak	Sawtimber Well	95	51-80	Harvest	Clearcut with Retention	4129 - Mixed Oak	Even-Aged	No
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Prescription Final harvest this portion of stand 85. Leave all of the white pine. In addition leave about 1-2 mature oak trees/ac for mast, preferably white oak. Avoid damage to the white pine understory.

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

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

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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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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11	61152011-Cut	107.5	42110 - Planted Red Pine	Poletimber Well	61	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin stand down to a BA of 120-130. Maintain a component of white pine and oak in the overstory.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Look to combine with adjacent treatments for sale.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

17	61152017-Cut	22.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	58	81-110	Harvest	Seed Tree with Retention	4122 - Oak, Pine	Two-Aged	No
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Prescription Seed tree harvest stand with a target BA of 20-30 of oak and pine. Long term MO of Oak/pine. Buffer out the drain/creek in the southern portion of the stand. Avoid damage to the white pine understory.

Specs:

Next Step Burn, Other; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable White pine, oak, aspen

Regen:

Other Look to follow up with a burn to set back aspen and maple sprouting and prep seed bed for oak and pine.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

23	61152023-Cut	19.3	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	70	141-170	Harvest	Crown Thinning	42290 - Natural Mixed Pine	Uneven-Aged	No
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Prescription Long term MO of white pine/ mixed pine. Look to do a crown thinning to promote pine and oak regeneration. Target BA of 100-120. Try to discourage aspen and red maple sprouting. Maintain an oak overstory component. Look to follow up next YOY with a burn to reduce duff layer for pine and oak germination.

Specs:

Next Step

Treatments:

Acceptable White pine, red pine, white oak, red oak.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
38 61152038-NF	8.9	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> This opening is a traditional wildlife planting located near traditional deer yards. Maintain as a non-forest stand conducive to wildlife foraging and cover needs. Was traditionally planted to annual rye. Continue annual planting as budgets and staffing allow, or consider alternative seed mixes as soil conditions allow. Periodic maintenance such as mowing, fertilization, reseeding, removal of woody encroachment, and/or other non-forest maintenance techniques.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
42 61152042-Cut	25.9	4133 - Aspen, Mixed Pine	Poletimber Well	50	81-110	Harvest	Seed Tree	4133 - Aspen, Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Harvest the aspen, red maple and cherry. Leave all the white pine and protect the advanced regen. Try to push this stand to a heavier white pine component.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> White pine, aspen, red maple.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
54 61152054-NF	8.1	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> This opening is a traditional wildlife planting located near traditional deer yards. Maintain as a non-forest stand conducive to wildlife foraging and cover needs. Was traditionally planted to annual rye. Continue annual planting as budgets and staffing allow, or consider alternative seed mixes as soil conditions allow. Periodic maintenance such as mowing, fertilization, reseeding, removal of woody encroachment, and/or other non-forest maintenance techniques.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> This site needs to be limed.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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65 61152065-Cut	18.0	42110 - Planted Red Pine	Sawtimber Well	61	141-170	Harvest	Crown Thinning	4310 - Pine, Oak Mix	Uneven-Aged	No
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Prescription Crown thin. Target residual around 90-100sqft/ac. Open up canopy to promote mixed pine and oak regen. Long term MO of mixed pine and oak. Try to avoid sprouting of red maple and aspen.

Next Step
Treatments:

Acceptable white pine, oak
Regen:

Other May need to apply oak wilt restriction.
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

69 61152069-Cut	2.0	42200 - Natural White Pine	Poletimber Well	65	141-170	Harvest	Crown Thinning	4220 - Natural White Pine	Two-Aged	No
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Prescription Reduce basal area to 120-140.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

71 61152071-Cut	25.0	42110 - Planted Red Pine	Poletimber Well	61	141-170	Harvest	Crown Thinning	42250 - Pine, Oak	Two-Aged	No
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Prescription Thin the overstory to get rid of suppressed stems and open up canopy to release the white oak and pine understory. Target BA of 100-120.
Specs: Protect oak regen and use the oak wilt spec .

Next Step
Treatments:

Acceptable
Regen:

Other Long term MO of oak/pine.
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

73 61152073-Cut	13.3	4133 - Aspen, Mixed Pine	Poletimber Well	48	81-110	Harvest	Shelterwood	4199 - Other Mixed Upland Deciduous	Two-Aged	No
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Prescription Final harvest the aspen out of this stand. Leave the majority of the oak and pine to steer this stand more to an upland mix. Protect the oak and pine advanced regen during the harvest. Oak wilt spec will likely be needed. Harvest will look more like a shelterwood cut than a clearcut.

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

Acceptable aspen, oak, pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
74	61152074-Burn	90.1	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	14	Immature	Burn	Other	4122 - Oak, Pine	Uneven-Aged	No
<p><u>Prescription Specs:</u> Perform a moderate intensity burn to stimulate and increase percentage of oak in the stand. Time the burn around early leaf out of the maple and aspen (late spring). Reduce aspen and maple competition by 20-30% and increase oak component by 20-30%.</p> <p><u>Next Step Treatments:</u> Monitoring, Prescribed Burn</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2025</p>											
79	61152079-Burn	30.9	4199 - Other Mixed Upland Deciduous	Sapling Well	6	Immature	Burn	Other	412 - Oak Types	Even-Aged	No
<p><u>Prescription Specs:</u> Moderate to high intensity fire in late spring to set back aspen and maple and to stimulate the oak regen. Specific objectives would be to increase oak component by 30% and reduce the aspen and maple by 30%. Maintain 70-100% of the conifers greater than 4 inches in diameter.</p> <p><u>Next Step Treatments:</u> Monitoring, Prescribed Burn</p> <p><u>Acceptable Regen:</u> white oak, black oak, red oak. white pine, red pine, lower amounts of red maple and aspen.</p> <p><u>Other Comment:</u> Prep work should be done outside the oak wilt restriction.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2025</p>											
82	61152082-Burn	7.4	3205 - Mixed Upland Shrub	Nonstocked		Unspecified	Burn	Opening	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Moderate to high intensity burn to set back woody encroachment and stimulate grasses. Reduce sumac and other woody encroachment competition by 30-50% and increase native grass component by 20-30%.</p> <p><u>Next Step Treatments:</u> Monitoring, Prescribed Burn</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Pair burn up with stand 79 if possible.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2025</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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4	61152085-Cut	42.7	4123 - Red Oak	Sawtimber Well	95	51-80	Harvest	Overstory Removal	42250 - Pine, Oak	Even-Aged	No
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Prescription Harvest the overstory greater than 4-6". Leave all of the white pine. In addition leave 1-2 mature oak trees/ac for mast preferably white oak.
Specs: Also line out 1-2 pockets of area retention. Avoid damage to the white pine understory.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

Total Treatment 468.5
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 152
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		5B	5C	2G	3J	5E	
305	211	78	16	Aspen		78			16	
34	0	0	34	Cedar					34	
25	25	0	0	Herbaceous Openland						
13	13	0	0	Low-Density Trees						
16	16	0	0	Lowland Aspen/Balsam Poplar						
29	0	0	29	Lowland Conifers				29		
21	0	0	21	Lowland Deciduous					21	
3	0	0	3	Lowland Mixed Forest				3		
12	12	0	0	Marsh						
455	208	245	2	Mixed Upland Deciduous	32	213				2
139	27	106	5	Natural Mixed Pines	87	19			5	
40	40	0	0	Northern Hardwood						
197	100	97	0	Oak	55	42				
294	294	0	0	Red Pine					0	
12	12	0	0	Sand, Soil						
156	130	13	13	Upland Mixed Forest		13			13	
7	7	0	0	Upland Shrub						
8	8	0	0	Urban						
8	8	0	0	Water						
8	8	0	0	White Pine						
1,784	1,120	541	123	Total Forested Acres	175	365	32	89		2
	63%	30%	7%	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)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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2	Unavailable	5E: Long-Term Retention	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Drainage runs through this part of the stand.							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Whiskey Cr							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Creek buffer.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	202	Unspecified	Unspecified	Unspecified	Unspecified
Comments: In this area we have not been able to be very successful regenerating nice red oak and sugar maple. Nice quality stand and can hold as is for a while.							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	31	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Whiskey Cr.							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Small creek runs through this stand.							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5B: Maintain for regeneration purposes	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Continue to let white pine develop in the understory for now. Also, hold until stand 88 to the north is fully regenerated.							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	73	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Nice quality stand. Can easily hold for another 10 years.							

Report 4 – Site Conditions

Traverse City Mgt. Unit

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Compartment: 152

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14	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Let aspen die out and let the white pine understory continue to develop.							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold until stand 74 has fully regenerated							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold and treat when stand 68 and 46 are ready.							
17	Available	5B: Maintain for regeneration purposes	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5B: Maintain for regeneration purposes	87	Unspecified	Unspecified	Unspecified	Unspecified
Comments: continue to let the aspen age out of the the stand. Long term MO of natural pine.							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Compartment: 152

Steve Crigier : Examiner

Year of Entry: 2026

20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
1	4126 - White, Black, N. Pin Oak	Sawtimber Medium	21.8	115	51-80	N/A	2024- Fully stocked understory. A clone or two of aspen present. Some areas the oak has been browsed down. Northend has more of a red oak component, the south has more white oak. 2014-Stand was shelterwood harvested in 1999. Decent amount of oak, white pine and red maple.																																																				
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2	4126 - White, Black, N. Pin Oak	Sapling Well	13.3	14	Immature	N/A	2024- Stand is doing well. Oak is above the browse line, 10-15' tall. 2014- Stand was harvested in 2010. Left a few log trees/acre for seed. Regeneration is dense and most of it is 5'10' tall.																																																				
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3	330 - Low-Density Trees	Nonstocked	2.9		Unspecified	No																																																					
4	4123 - Red Oak	Sawtimber Well	42.7	95	51-80	N/A	2024- Drier or more Xeric site than stand 87 to the north. 2014- Stand was harvested in 1999. Old inventory states that MSU used this sale area to underplant and do a study on white pine (west end of stand). This is not the best red oak fairly rough timber although it looks healthy. Rolling terrain on the south end of the stand. Stand has a mix of species regenerating.																																																				
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5	42290 - Natural Mixed Pine	Sawtimber Well	19.2	78	111-140	N/A	2024- Nice quality pine overstory. White pine and oak establishing in the understory. A few pockets of dense stocking but is mostly well spaced. 2014-Stand was lightly thinned in 2008. Large diameter red pine. A decent amount of white pine in the understory in different size classes.																																																				
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6	4199 - Other Mixed Upland Deciduous	Sawtimber Poor	10.7	75	1-50	N/A	Stand is mostly and old fire break that is filling in and also has some large oak scattered through																																														
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7	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	22.2	121	81-110	N/A	decent quality spruce. Lots of windthrow in areas.																																														
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9	4130 - Aspen	Sapling Well	21.8	6	Immature	N/A	2024- stand has regenerated well. 10-15 feet tall. 2019- Stand was cut in 2019 'Patience Popple' 61-118-16-01. Marked some scattered oak and pine for retention. 2014- Nice quality bigtooth aspen, lot of 6 stick trees. Scattered red and white pine along with some scattered oak.																																														
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10	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	6.9	97	1-50	N/A	2024 - Old inventory mentions a timber tress pass east of the creek. Scattered white pine, spruce and Cedar. Quite a bit of Tag alder as well. Cut over portion is seeding in with white pine in some areas. Small stream runs through.																																														
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11	42110 - Planted Red Pine	Poletimber Well	107.5	61	141-170	N/A	2024 - Some white pine seeding in. Good quality plantation that has been row thinned. Average BA of 166sqft/ac.																																														
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12	310 - Herbaceous Openland	Nonstocked	8.2		Unspecified	No																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
13	4111 - S.Maple, Hard Mast Association	Sawtimber Well	24.8	88	51-80	N/A	2024- Healthy canopy with room for stems to expand their canopy.																																								
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14	4130 - Aspen	Sapling Well	4.9	16	Immature	N/A	2024 - Dense stocking, Scattered mature oak. 2014-Stand originaly apart of the hardwood stand but was heavy to aspen so is now a A3 pocket.																																								
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15	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	2.7	89	1-50	N/A	lots of withthrown. Stand has a small perrinial drain along its west boundary. Stand is working a riparian buffer.																																								
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16	42290 - Natural Mixed Pine	Sawtimber Well	3.7	72	51-80	N/A	2024 - mixed pine on a slight knoll. Jack pine is aging out. Some remnant red and white pine.																																								
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17	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	25.1	58	81-110	N/A	2024- Off site aspen, oak/pine ground. Young and older oak present. Clones of aspen but mostly a mix of oak, red maple and white pine. Higher white pine component in the west half of the stand. 2014- aspen mixed with oak, soft maple and white pine. Also note that there is a perrinial drain in the southern portion of the stand.																																								
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18	330 - Low-Density Trees	Nonstocked	1.6			No	2024- Scattered cherry and red maple. Some red and white pine seeding in.																																								



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19	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	17.1	54	81-110	N/A	2024-2014- Mixed stand. Had a hard time with defining a timber type. It appears that the stand will eventually convert to white pine. Lots of size classes of timber. quite a bit of advanced regen.																																											
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20	4130 - Aspen	Poletimber Well	28.7	38	51-80	N/A	2024- Stand is in he process of converting to pole timber. Well stocked stand. Areas of low ground, and seasonal drainages, mostly in the north and east.																																											
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23	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	19.3	70	141-170	N/A	2024- Some remnant pine. Poor quality red maple. White pine developing in the understory. Stocking is variable, but areas of dense pine. Nice quality pine overstory. 2014 - Natural pine stand with a mix of aspen, soft maple and oak.																																											
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24	6120 - Lowland Cedar	Poletimber Well	7.5	122	141-170	N/A	2024- Numerous seeps and drainage. 2014- Very dense stocking. Stand is heavily used by deer. Decent quality cedar. Also has a creek running through it.																																											
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25	4130 - Aspen	Sapling Well	16.0	16	Immature	N/A	2024- Some white oak mixed in. Some areas have white pine establishing under the aspen. 2014- Stand was final harvested in 2008. They left scattered sugar maple and red oak log/pole timber. Stand also has some scattered white pine pole timber. Aspen regen is doing well about 10' tall and well stocked.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 10.9 73 81-110 N/A Mixed hardwood stand with aspen stand along the creek.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log	14	
Northern White Cedar	5	Pole/Log	9	
Hemlock	5	Log/Pole	10	
Balsam Fir	5	Pole	7	
Red Maple	50	Pole/Log	9	73
Quaking Aspen	20	Log/Pole	10	
Paper Birch	10	Pole	8	

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

27 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 5.4 100 81-110 N/A Big white and red pine (20" +) with some soft maple and aspen. A few scattered oak trees. Stand has a perennial creek running through it with a vain of cedar and hemlock that follow it.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	5	Log/Pole	10	
White Pine	50	XLog/Log	18	100
Hemlock	5	Log	12	
Red Pine	10	Log	16	
Quaking Aspen	5	Pole	8	
Red Maple	20	Pole	7	
Red Oak	5	Log	14	

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

28 4116 - Mixed N. Hardwood - Aspen Poletimber Poor 3.5 62 1-50 N/A 2024- white pine is developing in the understory. 2014- Stand is an opening filling in with pockets of aspen. poor quality timber.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	25	Pole	7	
White Pine	5	Log/Pole	10	
Black Cherry	30	Pole	8	
Red Maple	30	Pole/Log	9	62
Red Oak	10	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	10 - 20 feet	Sapling

29 4130 - Aspen Poletimber Well 5.5 48 51-80 N/A 2024- Moderate quality aspen. white pine and white oak developing in the understory. Scattered large pine and oak. South part of the stand is more of an oak/pine type.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Sapling	5	
Quaking Aspen	60	Pole	7	48
White Pine	15	Log/Pole	10	
Red Oak	15	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Black Cherry	Trace	5 - 10 feet	Sapling
White Oak	Trace	>20 feet	Sapling

30 6120 - Lowland Cedar Poletimber Well 5.8 100 141-170 N/A 2024- Dense canopy. Intermittent drainage flows through stand. 2014- Nice quality cedar poles. A lot of 3-4 stick cedar and good diameters too 8-10". Lots of blowdown in the center of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	6	
Northern White Cedar	90	Pole/Log	9	100
Hemlock	5	Pole/Log	8	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
31	6112 - Lowland Aspen	Sapling Well	16.4	4	Immature	N/A	2024- stand is regenerating very well. Ground gets very soft along the north boundary. Pockets of cedar where left as retention from the harvest.																																																								
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33	4130 - Aspen	Sapling Well	11.2	6	Immature	N/A	2024- Aspen is regenerating well but does have a few areas that are kind of sparse. 2019- Stand was harvested in 2019 'Patience Popple' 61-118-16-01. There is a small vegetative drain that runs through the stand. There is some scattered cedar and hemlock scattered throughout.2014-Stand stocking is variable. Mostly made up of quaking aspen. Ground appears to be wet. Some bigtooth at the south end of the stand.																																																								
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35	4199 - Other Mixed Upland Deciduous	Sapling Well	14.1	29	Immature	N/A	2024 - well stocked, trees are 20-30ft tall. 2014 - Stand is made up of several one acre patches that were cut out of the parent stand (PI 72) in 1995. Regen pocket are doing okay but are sparse in areas. Trees are about 15-20' tall except for the oak which is more like 5-10'.																																																								
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36	122 - Road/Parking Lot	Nonstocked	7.7		Unspecified	No																																																									
37	4130 - Aspen	Sawtimber Well	15.8	63	81-110	N/A	2024- Beavers are active in whiskey creek and thinning out aspen along the bank. White pine establishing in the understory. 2014- Mix of quaking and bigtooth. Stand has Whiskey Cr. running through it. Southern half of the stand has a bit more oak and soft maple mixed in and serves as a bit of a riparian buffer/ tranistion ground. Quaking aspen is of pretty poor quality in the southern half of the stand.																																																								
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38	310 - Herbaceous Openland	Nonstocked	8.9		Unspecified	Managed Opening	opening actively managed by WLD.																																																								



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39	4133 - Aspen, Mixed Pine	Sapling Well	39.4	6	Immature	N/A	2024- aspen is regenerating well. Stand has a nice mix of oak and pine. 2019- Stand was cut in 2019 'Patience Popple' 61-118-16-01. Some scattered oak and pine were left for retention and shelter. 2014- Nice clones of bigtooth in areas. Some white pine in the understory. Drain is on the stands																																																															
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40	42110 - Planted Red Pine	Poletimber Well	27.4	53	111-140	N/A	2024 - BA'S: 100, 160, 1302021 - Stand was thinned as part of sale Slow Start Red Pine. Sale # 61-105-16																																																															
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2014- Stand was 3rd row thinned in 2006. Rows are fairly straight, most trees are 5 stick. Some trees have room to grow others have already closed together.																																																																						
41	6120 - Lowland Cedar	Poletimber Well	20.3	104	111-140	N/A	2024- Dense canopy cover for the most part. Scattered super canopy white pine. 2014- Lots of blowdown. Looks like the deer are using the area for cover. Stand also has Whiskey Cr. Running through a portion of it.																																																															
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42	4133 - Aspen, Mixed Pine	Poletimber Well	25.9	50	81-110	N/A	2024- Pockets of low stocking. White pine is coming in thick in the understory. 2014-Quaking aspen is pretty poor quality stuff, seems to be more on the east end of the stand. Quaking is 4-5" and 2 sticks tall however the clones of bigtooth are doing real well.																																																															
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44	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.1	65	81-110	N/A	2024- A few clones of aspen but prodominently stump sprouted red maple. Scattered large oak and pine. White pine developing in the understory.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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45 4191 - Mixed Upland Deciduous with Conifer Poletimber Poor 5.3 40 1-50 N/A Stand is an opening filling in, mostly with white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	10	Log/Pole	12		White Pine	Medium	Variable	Sapling
White Pine	40	Pole/Sap/Log	6	40	White Oak	Low	Variable	Sapling
Quaking Aspen	20	Pole	8	40				
Red Oak	10	Pole/Log/Sap	6					
Red Maple	20	Pole/Sap/Log	6					

46 42110 - Planted Red Pine Poletimber Well 59.9 56 111-140 N/A 2024- Decent plantation, some areas aren't as fully developed (diameter and height) as others BA'S: 130, 110, 130, 150, 1002021 - Stand was thinned as part of sale Slow Start Red Pine. Sale # 61-105-16

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	2	Log	16	
White Pine	2	Pole	6	46
Red Pine	94	Pole	8	56
White Oak	2	Log	16	

2014-Stand is made up of 4 small plantation blocks. Trees are averaging 4 sticks in height. Trees are still a bit limby. Moderate quality trees. Stand is on the boarder line of whether to be treated or not.

47 4130 - Aspen Sapling Well 10.8 16 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	3	Log/Pole	10	86	White Pine	Low	5 - 10 feet	Sapling
Black Cherry	5	Sapling	1					
Quaking Aspen	65	Sapling	2	16				
Red Oak	7	Log/Pole	10	86				
Red Maple	20	Sapling	1					

2024 - stand is well stocked, 20-30 feet tall. Some white coming in the understory. 2014-Stand was final harvested in 2008, all the oak was left as residual. Regen is about 5-10' tall and is well stocked. Stand appears to be mostly aspen with a decent amount of red maple and cherry also. Previous inventory noted some paper birch.

48 42201 - Natural White Pine, Mixed Deciduous Sawtimber Well 6.4 88 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log	14		White Pine	Low	Variable	Sapling
Quaking Aspen	5	Pole	8	68				
White Oak	5	Log	14					
White Pine	60	Log	14	88				
Red Maple	20	Pole	8	68				

2024- Red maple component looks slightly younger (Stump sprout origin). some mature large oak scattered. 2014-Stand is apart of the transition ground between the upland and lowland.

49 330 - Low-Density Trees Nonstocked 7.0 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
50	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	87.2	75	111-140	N/A	2024- Some large, remanent, white pine. White pine seems to dominate with a mix of red maple, aspen, red oak and red pine. Poor quality red maple. Several pockets of just red maple and aspen. A few Vernal ponds at the north end. BAs: 150, 170, 160, 110, 120, 130. 2014- White pine is pretty rough with lots of limbs and not very straight. Quaking aspen is starting to deteriorate. Lots of different age and size classes. More red pine in the eastern part of the stand, decent stuff 5-6 stick trees. extra ba120.																																															
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51	4126 - White, Black, N. Pin Oak	Sawtimber Medium	44.0	98	51-80	N/A	2024- Understory is starting to filling with white pine. A couple of vernal ponds in the eastside of the stand. Oak regen Has been browsed down. Overstory is large open grown oak. Kind of unique Barrens looking stand. Basal area is in the 40-60 range. 2014-Stand was shelterwood harvested in 1999. Regen is varible in stocking. Some oak is now established but is mostly red maple and aspen. Some A3 pockets. There is some deer browse issue but it looks like the treatment was moderately sucessful. extra ba 40.																																															
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53	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	10.2	93	51-80	N/A	Stand has whiskey creek running through it. Stand is working as a riparian buffer.																																															
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54	310 - Herbaceous Openland	Nonstocked	8.1		Unspecified	Managed Opening	Managed wildlife opening.																																															
55	623 - Emergent Wetland	Nonstocked	2.6			No																																																
56	4119 - Mixed Northern Hardwoods	Sawtimber Well	11.2	98	51-80	N/A	2024- Good flush of aspen after the harvest. white pine is also seeding in well in areas. Pocket of low ground in the middle of the stand with some hemlock and cedar.2021 - Stand was thinned as part of sale Slow Start Red Pine. Sale # 61-105-16 2014- Stand appears to be on lower ground although I wouldn't call it low ground.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
57	4310 - Pine, Oak Mix	Sawtimber Poor	62.0	71	1-50	N/A	2024- stand is regenerating well and with a diverse mix of species. White oak is being heavily browsed. 2018 - Stand was treated with a Shelterwood harvest in 2018. Old grade oak 61-106-16-01. Left about 10-20 ba of mixed oak and pine. Also left all white pine less than 4"2014 - Old inventory notes a bunch of dead oak trees (confirmed). Quite a bit of white pine in the understory especially in the north 1/2 of the stand. North 1/2 of the stand is more of a white oak stand, stocking is less dense and the quality of log trees is less also. Not the best quality of oak although good diameters. extra ba100		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	15	Log	12		Red Maple	Medium		5 - 10 feet	Sapling
White Pine	35	Log/Pole	10	71	Quaking Aspen	Low		5 - 10 feet	Sapling
Red Oak	20	Log	14	98	Red Pine	Trace		< 5 feet	Sapling
White Oak	20	Log	14	98	White Oak	Medium		< 5 feet	Sapling
Red Maple	10	Pole	8		White Pine	Low	Variable	Sapling	
58	623 - Emergent Wetland	Nonstocked	8.0			No			
59	4130 - Aspen	Poletimber Well	3.8	48	141-170	N/A	2024- Nice clone of bigtooth aspen. Some white pine developing in the understory.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	80	Pole	8	48	White Oak	Trace		5 - 10 feet	Sapling
White Pine	10	Log/Pole	10		White Pine	Low		5 - 10 feet	Sapling
Red Maple	10	Pole	6		Red Maple	Low	>20 feet	Sapling	
60	623 - Emergent Wetland	Nonstocked	1.3		Unspecified	No			
62	4311 - Pine, Aspen Mix	Poletimber Well	26.6	77	81-110	N/A	2024- Manage stand as a riparian buffer. 2014- Stand is quite variable with a creek running through it. Fairly steep banks going down to the creek. The northern portion of the stand is almost a pure W6. The southern portion of the stand isn't as well stocked as the north. Also, the timber in the southern end of the stand appears to be younger (30-40).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	20	Pole	7	47	White Pine	Medium		Variable	Sapling
Red Maple	20	Pole/Sapling	6	47	White Oak	Low		Variable	Sapling
Red Oak	5	Log/Pole	10		Red Maple	Low		Variable	Sapling
White Pine	55	Log/Pole	10	77					
63	330 - Low-Density Trees	Nonstocked	1.6			No	2024- Scattered red and white pine. Blueberry ground cover.		
64	500 - Water	Nonstocked	8.3		Unspecified	No			
65	42110 - Planted Red Pine	Sawtimber Well	18.0	61	141-170	N/A	2024 - white oak and white pine creeping into the understory where the canopy is semi open. East side of stand has a more open canopy and more red maple saplings. Stand has a planting record (1963) but stand has a mix of older trees as well. BA'S: 140, 150, 130, 170 2014 --Stocking is variable. Northern portion of the stand had a lot of nice quality red and white pine 5-6 sticks. The majority of the timber is shorter and limbier. A few size classes. It looks like white pine wants to come into the stand. It looks like portions of the stand had the red maple and oak cut out of it.		
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Red Maple	5	Pole/Sapling	6		White Pine	Low		Variable	Sapling
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Red Pine	60	Log/Pole	11	61	Red Maple	Low		>20 feet	Sapling
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66	4310 - Pine, Oak Mix	Sawtimber Well	68.0	71	111-140	N/A	2024- Pockets of regen, with white pine and white oak, where the canopy is semi open. Regen is stunted. Overstory looks healthy, a few age classes present. 2014- Stand was lightly thinned in 2006. Seeing quite a bit of advanced white pine regen! A few age and size classes, a very uneven looking stand. Nice quality pine, tall and clean. Stand has more of a pine component to it in the southern half. Extra BA 100, 90																																															
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67	42260 - Natural Pine, Mixed Deciduous	Sapling Well	4.2	35	1-50	N/A	2024-site filling in with white pine. Some scattered white oak as well.																																															
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68	42110 - Planted Red Pine	Poletimber Well	32.0	55	111-140	N/A	2024- BA: 90, 150, 130, 110 2021 - Stand was third row thinned as part of sale Slow Start Red Pine. Sale # 61-105-16 2014-mostly 3-4 stick trees. Mediocr quality. Some areas need to be thinned then others have a lot of low limbs and poor height development. extra ba. 150, 110, 160,																																															
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69	42200 - Natural White Pine	Poletimber Well	2.0	65	141-170	N/A	2024 - Stand is very well stocked, dense canopy																																															
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70	4126 - White, Black, N. Pin Oak	Sawtimber Medium	11.5	100	1-50	N/A	2024- White pine is starting to take over the understory. Aspen is on its way out. Blueberry ground cover. 2014 - Open grown oak stand with some red maple and aspen. Oak is mature. South end of the stand has some good signs of oak and white pine regeneration. Northern part of stand is pretty bare in the understory.																																															
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71	42110 - Planted Red Pine	Poletimber Well	25.0	61	141-170	N/A	2024- white oak is filling in the understory were the canopy is more open. Ages of 48, 64, and 73. East end of stand has Some red maple mixed in the understory. Notes of interplanting red pine in 1963. BA: 150, 110, 180 2014-Red pine trees are fairly short (4 stick) and is fairly limby. Looks to be open growth. Stocking is quite variable. Appears to be a few size and age classes of red pine.																																										
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72	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	10.9	96	81-110	N/A	Stand is an oak/ pine mix. The stand is filling in with white pine in the understory. There are lots of age classes of white pine. Middle portion of the stand is not as well stocked. Stand also has a couple clones of aspen.																																										
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73	4133 - Aspen, Mixed Pine	Poletimber Well	13.3	48	81-110	N/A	2024 - Quite a bit of pine and oak mixed in. Some white pine seeding in. Looks to be a sandier site and wants to grow oak and pine. 2014-Stand is well stocked and is a young A6 stand. Trees are 3-4 sticks.																																										
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74	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	93.7	14	Immature	N/A	2024- Stand is a mix of age classes broken up by 1 acre patch cuts of a 97 year old white/red oak stand. First patches where cut in 2010, These pockets are turning into a nice mix of white pine and white oak with a decent component of aspen and red maple (MD3). Second entry was in 2018, these patches have been heavily browsed with some scattered white pine (U0). Remnants of the parent stand are still out there (~12 patches). 12-14" red and white oak with a mix of white pine and white pine establishing in the understory.																																										
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77	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	13.7	38	1-50	N/A	2024- An old opening that is filling in with aspen, cherry, oak and white pine.																																										
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78	4130 - Aspen	Poletimber Well	20.2	38	81-110	N/A	2024 - stand is on some mild terrain. Dense red maple understory. Nice quality stand, very well stocked. 2014 - Stand is a converting from a sapling to a pole stand. 3-4 stick trees.																																			
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White Pine	2	Pole/Sapling	5																																							
Red Maple	13	Pole/Sapling	5	38																																						
Sub-Canopy Species	Density	Avg. Height	Size																																							
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79	4199 - Other Mixed Upland Deciduous	Sapling Well	22.5	6	Immature	N/A	2024- Stand is regenerating fairly well. White oak regen is heavily browsed. Dense grass and sedge for ground cover. 2018 - Stand was final harvested in 2018 and was chipped 'Old Grade Oak' 61-106-16-01. West of ORV trail is to be trenched and planted to red pine. East portion has scattered trees left for a seed source and will hopefully regenerate oak, aspen and maple. 2014 -Stand had 1 acre portions of it clearcut back in 1995 that is now PI stand 73 the main stand was thinned at the time the 1 acre pockets were cut. The parent stand is an medium quality oak stand. The timber is a little rough. Lots of log trees with good diameter but they are rough and there is 2-3 logs/tree. I think a lot of the red oak is also 'black oak'. Blueberry for ground cover and looks like white pine wants to come in underneath. The eastern portion of the stand is more of a red oak and maple mix and the oak is a lot better quality. (extra BA 130).																																			
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80	42110 - Planted Red Pine	Sapling Well	23.8	4	Immature	N/A	2023 - Year 3 Regeneration survey was completed 10/13/2023. There is currently 729 trees per acre and stand is 96% Free to grow at this time. 11/9/2021 - Year 1 regeneration survey completed. Stand has approximately 896 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. 5/3/2021 Stand was planted to red pine. Approximately 880 trees per acre. 2014 - Stand had 1 acre portions of it clearcut back in 1995 that is now PI stand 73 the main stand was thinned at the time the 1 acre pockets were cut. The parent stand is an medium quality oak stand. The timber is a little rough. Lots of log trees with good diameter but they are rough and there is 2-3 logs/tree. I think a lot of the red oak is also 'black oak'. Blueberry for ground cover and looks like white pine wants to come in underneath. The eastern portion of the stand is more of a red oak and maple mix and the oak is a lot better quality. (extra BA 130). 2018- Stand was final harvested in 2018 and was chipped 'Old Grade Oak' 61-106-16-01. West of ORV trail is to be trenched and planted to red pine. East portion has scattered trees left for a seed source and will hopefully regenerate oak, aspen and maple. 2019- Stand was trenched in 2018 and is ready for planting. 2020- site prep herbicide done in 2020.																																			
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81	4130 - Aspen	Poletimber Well	72.9	48	111-140	N/A	2024- very healthy stand, dense stocking. Some red maple in the understory. East edge has a higher component of hardwood species. BAs: 120, 120, 140																																																						
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82	3205 - Mixed Upland Shrub	Nonstocked	7.4		Unspecified	No	Sumac is encroaching into the opening. Bracken fern is also very prevalent.																																																						
83	4130 - Aspen	Sapling Well	3.0	26	Immature	N/A	Stand was also part of the MSU white pine research area.																																																						
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84	4130 - Aspen	Sapling Well	12.3	26	Immature	N/A	2024- very well stocked 2014- Trees are about 20' tall.																																																						
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85	4123 - Red Oak	Sawtimber Well	64.0	95	51-80	N/A	2024- Drier or more Xeric site than stand 87 to the north. 2014- Stand was harvested in 1999. This is not the best red oak fairly rough timber although it looks healthy. Rolling terrain on the south end of the stand. Stand has a mix of species regenerating. South eastern part of the stand has quite a bit of sugar & red maple regen! Southwest has a decent amount of white pine and oak. Extra BA (90, 100)																																																						
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86	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	32.4	95	51-80	N/A	2024- Current condition seem to be favoring the white pine regen. Where Canopy is more open red maple and beech are more dominate. Oak overstory still looks healthy. It will be tough to regenerate the oak. B.As : 70, 80, 60. 2014- Stand was harvested 2010. Quite a bit of red maple and aspen regeneration as well as white pine no oak regen visible. A large variety of species were harvested. Good quality red and white pine in the stand the oak is mediocur. Stand looks as if it wants to convert to a white pine and oak mix. Hold on any treatment to allow the regeneration to become more established.																																																						
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87	4199 - Other Mixed Upland Deciduous	Sawtimber Well	201.7	95	51-80	N/A	2024 - Nice quality Oak and maple. Regen is patchy and overall pretty low . Few pockets of thick beech(mostly south edge) and red maple regen. Healthy overstory. Heavy to moderate deer browse on understory.																																																			
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88	710 - Sand, Soil	Nonstocked	12.1		Unspecified	No	Old County leased gravel pit. This area see lots of ORV and off road vehicle use. Working with LED to figure out a plan for this area. Some closure work and site rehab will likely be needed.																																																			