



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61156

Entry Year 2022

Acreage: 1,886

County Kalkaska

Management Area: Boardman Plains

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**Revision Date:** 2020-07-23

**Stand Examiner:** Thomas Peterson III

**Legal Description:**

T26N, R8W, Sec. 4, 5 & 6

**Identified Planning Goals:**

This compartment is part of the Boardman Plains Management Area, which is primarily managed to provide forest products, maintain or enhance wildlife habitat, protect areas of unique character such as Taylor Creek in this compartment, and provide for forest-based recreational uses. Timber management objectives are based on a state wide plan. The plan for this is based on surrounding compartments in the Boardman Plains Management area. This compartment will be re-inventoried every 10 years.

**Soil and topography:**

The terrain is generally upland and well drained. These upland areas are on rubicon sand soil. Taylor Creek runs through the southern portion of the compartment adding some lowland timber types that are on Nester Peat soils.

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

The compartment has 1 private 20 acre parcel in section 5. The rest of the compartment is state ownership. The property adjacent to the compartment is also owned by the state. Most of this area is managed timberlands with some oil and gas activity.

**Unique Natural Features:**

None noted in the MNFI

**Archeological, Historical, and Cultural Features:**

None listed.

**Special Management Designations or Considerations:**

Taylor Creek is a natural rivers High Conservation Value Area. Any management in this area will have to buffer the creek at the appropriate distance.

**Watershed and Fisheries Considerations:**

This compartment is within the Boardman River Watershed and contains Taylor Creek. Reasonable buffers (as outlined in Water Quality Management Practices on Forest Land) and Natural Rivers zoning restrictions should be adhered to around all streams in this compartment. These streams are all naturally reproducing, are Type 1 designated trout streams; existing buffers appear to be appropriate for the proposed treatments.

**Wildlife Habitat Considerations:**

This compartment falls entirely within a broad, flat outwash plain with excessively drained sandy soils. This LTA was historically prone to frequent burning and harbored mixed pine forests, barrens, and some components of oak, hardwoods, and bottomland forests in low areas. The compartment should continue to be managed for a variety of successional stages of pine-oak-aspen forest and grass-shrub openings, with some mid to late successional forest in and adjacent to stream valleys. There is strong successional momentum toward white pine over much of the compartment. Several stands should be allowed to gradually succeed to mixed white pine forest, while others should be set back through timber harvesting. Such harvesting should incorporate residual live trees (preferably in patches), snags, and some down logs to replicate within-stand habitat structure left after wildfires. Tops should be left unchipped and scattered around the sale area in piles for wildlife habitat. Oak is a very important component of forests here and should be maintained or regenerated as much as possible. Prescribed burning and or warm season grass conversion will recreate barrens habitat in some stands and will help to reclaim some abandoned oil well sites. Pine plantations should incorporate a variety of tree species and structural diversity as much as possible. Also, incorporating small (2-5 acre) islands that are left relatively un-thinned within mature pine stands would provide winter roosting cover for turkeys. Stream bottoms should remain as mature forest cover to protect riparian habitat and preserve local deer winter cover in lowland conifers.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. There is no current economic use for the Coldwater Shale. The nearest gravel pit is within two miles to the south. Gravel potential in the compartment is thought to be limited. This area is located in the Silurian Niagaran reef trend. Part of the State land is currently leased and held by production. The rest of the Compartment is nominated for the May 2010 oil & gas lease auction.

**Vehicle Access:**

The Boardman River Road provides the main access through the compartment. West Crofton road branches off the west and Vroom Road branches to the east. There are many poor dirt roads through out the compartment.

**Survey Needs:**

The one 20 acre private parcel has been surveyed. No survey is needed for this compartment.

**Recreational Facilities and Opportunities:**

The Boardman Valley Snowmobile Trail runs along side Boardman River Road through the compartment. The area is also used by hunters and ORVs.

**Fire Protection:**

VFD Fire Protection is from the South Boardman Fire Dept., and DNRE protection is from the Kalkaska Field Office. This compartment is entirely within Zone 6, which means on a Very High or Extreme Fire day additional DNRE equipment from several stations will respond to the fire. Urban Interface is not a problem, access is adequate, and travel time from the Kalkaska Field Office is acceptable.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

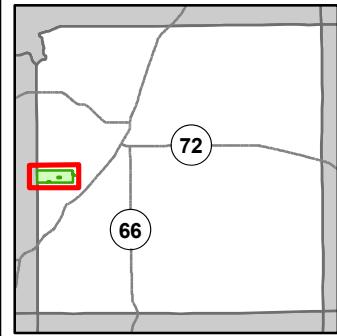
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

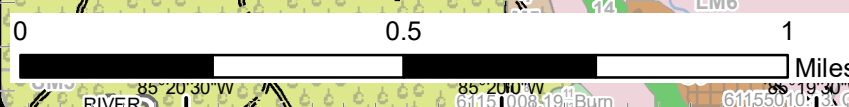
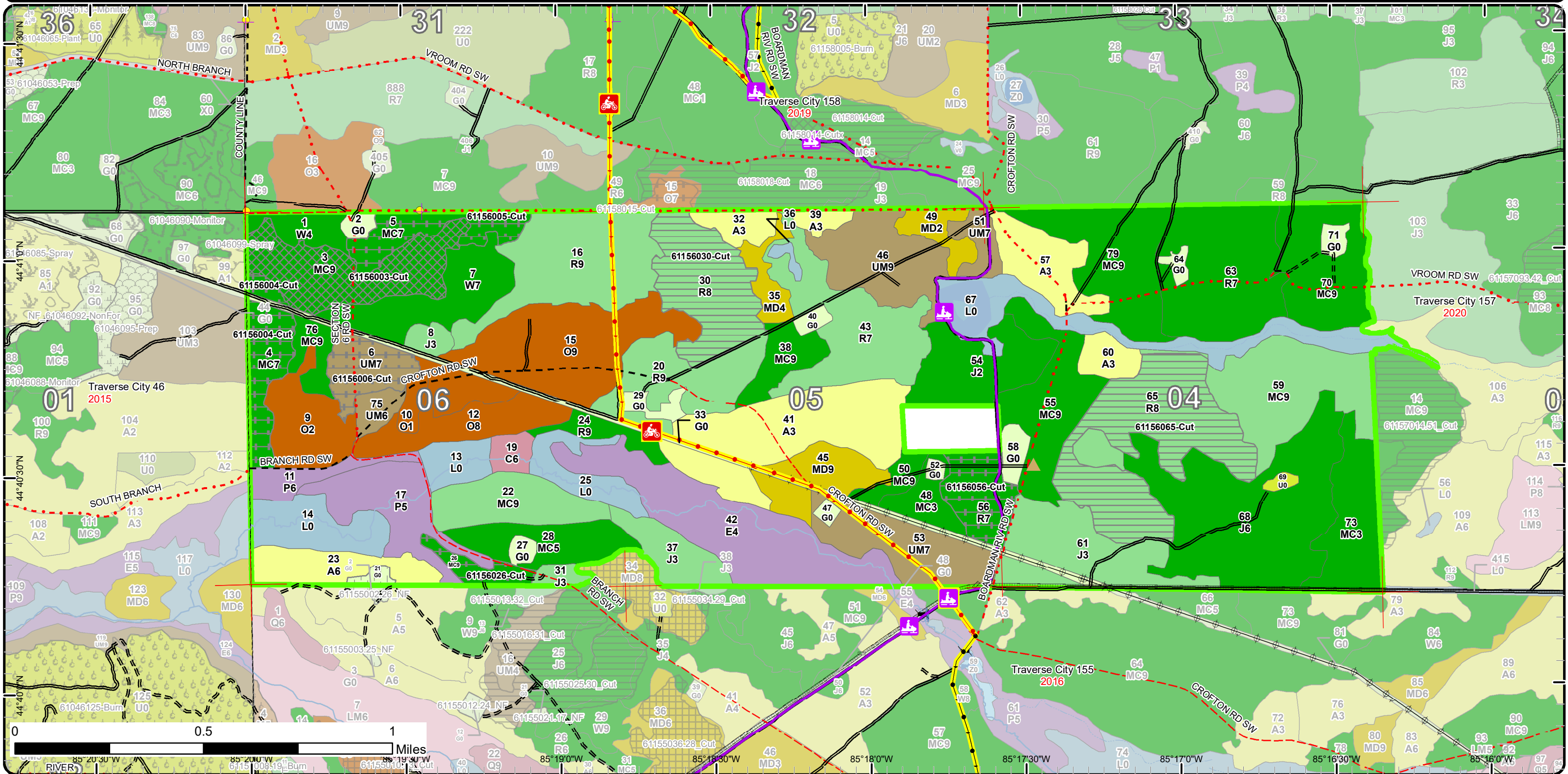
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 156  
 T26N R08W Sec. 4-6  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: Boardman Plains  
 YOE: 2022  
 Acres: 1,885.7 GIS Calculated  
 Examiner: Thomas Peterson III  
 Map Revised: 1/8/2021  
 Map Phase: Post-Review

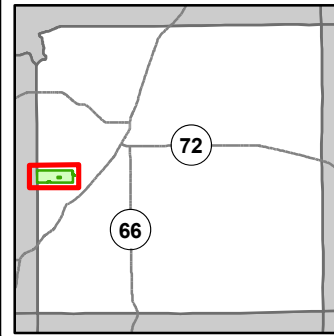


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|---|---|--|---|
| <ul style="list-style-type: none"> <li>— Miris Corners</li> <li>— Remonumented Section Corners</li> <li>● Survey Grade Corners</li> <li>--- Counties</li> <li>== DNR - Secondary Forest Road</li> <li>== DNR - Forest Access Route</li> <li>- - - Federal / State - Dirt / Gravel Road</li> <li>- . - . County - Gravel Road</li> <li>- - - County - Dirt Road (Seasonal)</li> <li>🏍️ Motorcycle Trails (DNR License)</li> <li>🏍️ MCCCT Trails</li> <li>🏍️ Snowmobile Trails</li> </ul> | <ul style="list-style-type: none"> <li>● ORV License</li> <li>● ORV License &amp; Trail Permit</li> <li>— Designated Snowmobile Trails</li> <li>— Michigan Cross Country Cycle Trail (MCCCT)</li> <li>▲ Berms</li> <li>▲ Bridges</li> <li>— Culvert</li> <li>— Intermittent Stream</li> <li>— Island in Lake or River</li> <li>— Lake/Pond</li> <li>— Perennial River</li> <li>— Lakes and Rivers</li> <li>— Pipeline</li> <li>⚡ Powerline</li> </ul> | <ul style="list-style-type: none"> <li>▭ Compartment Boundary</li> <li>▭ Selection (Group, Single Tree)</li> <li>▭ Clearcut (w/Reserves)</li> <li>▭ Harvest, Overstory Removal</li> <li>▭ Opening Maintenance</li> <li>■ 412 - Oak Types</li> <li>■ 413 - Aspen Types</li> <li>■ 419 - Mixed Upland Deciduous</li> <li>■ 421 - Planted Pines</li> <li>■ 422 - Natural Pines</li> <li>■ 430 - Upland Mixed Forest</li> <li>■ 611 - Lowland Deciduous Forest</li> <li>■ 612 - Lowland Coniferous Forest</li> <li>■ 310 - Herbaceous Openland</li> <li>■ 330 - Low Density Trees</li> </ul> | <ul style="list-style-type: none"> <li>■ 622 - Lowland Shrub</li> </ul> |
|---|---|--|---|

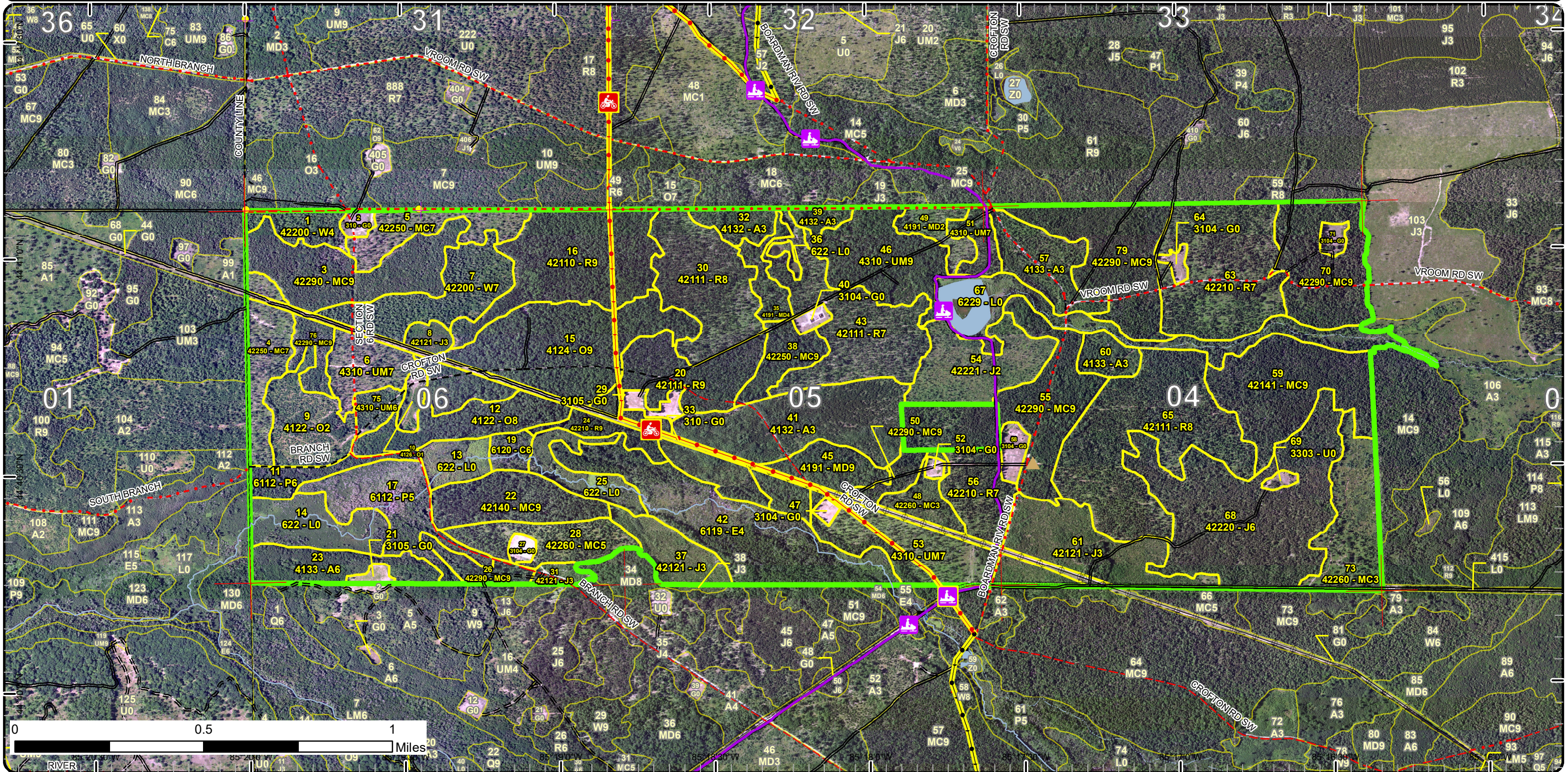


# Stand Boundary Map

Compartment: 156  
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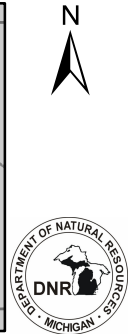
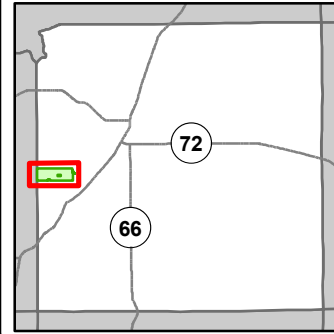


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|--|--|---------------------------------|
| — Miris Corners                          | ● ORV License                                | ■ Compartment Boundary          |
| ⊕ Remonumented Section Corners           | ● ORV License & Trail Permit                 | □ Stand Boundaries              |
| ● Survey Grade Corners                   | — Designated Snowmobile Trails               | 412 - Oak Types                 |
| — Counties                               | — Michigan Cross Country Cycle Trail (MCCCT) | 413 - Aspen Types               |
| — DNR - Secondary Forest Road            | ▲ Berms                                      | 419 - Mixed Upland Deciduous    |
| == DNR - Forest Access Route             | ▲ Bridges                                    | 421 - Planted Pines             |
| - - Federal / State - Dirt / Gravel Road | — Culvert                                    | 422 - Natural Pines             |
| - . - . County - Gravel Road             | — Intermittent Stream                        | 430 - Upland Mixed Forest       |
| - - - County - Dirt Road (Seasonal)      | — Island in Lake or River                    | 611 - Lowland Deciduous Forest  |
| 🏍 Motorcycle Trails (DNR License)        | — Lake/Pond                                  | 612 - Lowland Coniferous Forest |
| 🏍 MCCCT Trails                           | — Perennial River                            | 310 - Herbaceous Openland       |
| 🏍 Snowmobile Trails                      | — Lakes and Rivers                           | 330 - Low Density Trees         |
|  | — Pipeline                                   | 622 - Lowland Shrub             |
|  | ⊕ Powerline                                  |                                 |

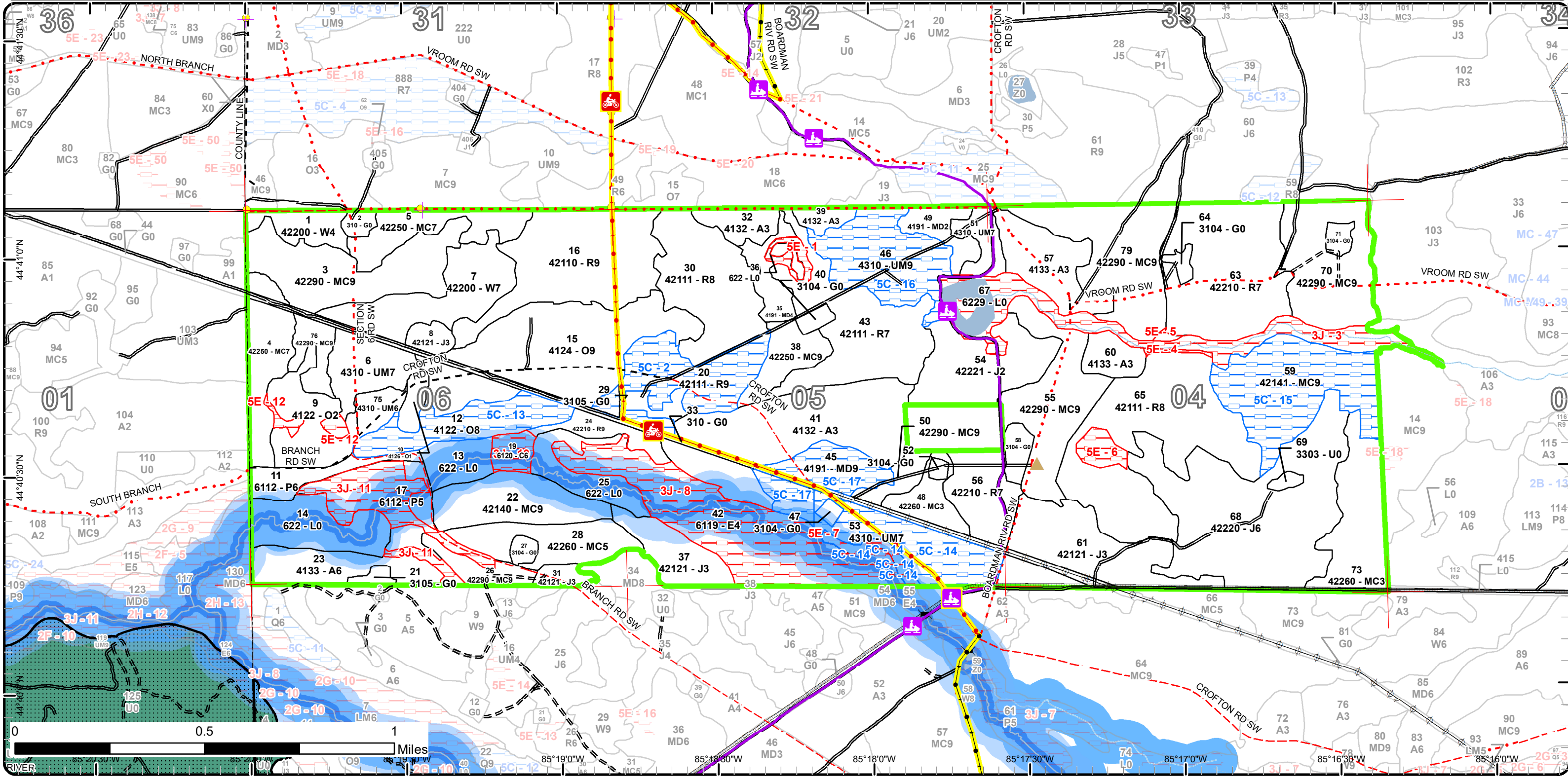


# Special Conservation Areas

Compartment: 156  
 T26N R08W Sec. 4-6  
 County: Kalkaska  
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 Acres: 1,885.7 GIS Calculated  
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 Map Revised: 1/8/2021  
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- 🏍️ Motorcycle Trails (DNR License)
- 🏍️ MCCCT Trails
- 🏍️ Snowmobile Trails
- ORV License
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Berms
- Bridges
- Culvert
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Habitat Corridor





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	0	43	84	0	24	0	0	0	0	0	0	0	0	0	0	0	0	151
Cedar	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Herbaceous Openland	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Jack Pine	0	0	118	0	0	104	0	0	0	0	0	0	0	0	0	0	0	0	222
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	0	0	0	0	13	0	38	0	0	0	0	0	0	0	0	0	0	50
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	78	0	0	0	0	0	0	78
Lowland Shrub	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107
Mixed Upland Deciduous	0	12	0	0	0	0	0	11	0	24	0	0	0	0	0	0	0	0	47
Natural Mixed Pines	0	12	37	0	26	0	52	26	23	156	0	26	0	0	0	0	0	0	358
Oak	0	0	30	6	0	0	0	0	81	29	0	0	0	0	0	0	0	0	146
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	90	0	0	0	0	0	0	0	0	90
Red Pine	0	0	0	0	0	0	0	65	91	160	89	0	0	0	0	0	0	0	403
Upland Mixed Forest	0	0	0	0	8	0	0	0	10	43	59	0	0	0	0	0	0	0	119
White Pine	0	0	0	0	0	0	0	12	0	37	0	0	0	0	0	0	0	0	49
<b>Total</b>	<b>164</b>	<b>24</b>	<b>228</b>	<b>90</b>	<b>34</b>	<b>141</b>	<b>52</b>	<b>152</b>	<b>205</b>	<b>539</b>	<b>155</b>	<b>104</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1884</b>



## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2022

Acres of Harvest

Compartment 156  
Total Compartment Acres: 1,886

Commercial Harvest - 386  
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
Lowland Aspen/Balsam Poplar	4	0	0	0	0	0	0	0	0	4
Natural Mixed Pines	0	50	0	0	0	59	0	0	0	108
Planted Mixed Pines	0	0	0	0	0	32	0	0	0	32
Red Pine	188	0	0	10	0	24	0	0	0	222
Upland Mixed Forest	0	0	0	0	0	21	0	0	0	21
<b>Total</b>	<b>192</b>	<b>50</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>135</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>386</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	386	0	0	0	0	0	0	23	0	410
Next Step	0	376	188	0	6	188	481	0	0	1239
<b>Total</b>	<b>386</b>	<b>376</b>	<b>188</b>	<b>0</b>	<b>6</b>	<b>188</b>	<b>481</b>	<b>0</b>	<b>23</b>	<b>1649</b>



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

<b>3</b>	<b>61156003-Cut</b>	49.5	42290 - Natural Mixed Pine	Sawtimber Well	85	111- 140	Harvest	Single Tree Selection	42250 - Pine, Oak	Two-Aged	No
<p><u>Prescription</u> Thin stand down from a BAF of 162 to a BAF of 120. Remove lower quality white pine trees first then work on spacing throughout the stand.</p> <p><u>Specs:</u> Use oak wilt spec as there is oak in stand. Oak should be retained as a seed source, unless needed to be removed for operation purposes, or poor quality. If there is advanced oak regeneration established in spots create a gap to release the oak.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of oak and pine is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>4</b>	<b>61156004-Cut</b>	26.3	42250 - Pine, Oak	Sawtimber Poor	103	1-50	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Remove overstory with standard area retention. Protect all trees 4 inches or less in DBH during harvest. Use Oak wilt Spec with no</p> <p><u>Specs:</u> exceptions due to amount of oak in understory. Leave Retention pocket in south part of stand protecting steep hill.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Full to Moderately Stocked stand with any combination of Oak, Pine, and/or any other mixed upland deciduous species.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>5</b>	<b>61156005-Cut</b>	22.8	42250 - Pine, Oak	Sawtimber Poor	72	1-50	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Overstory Removal with no retention due to small size of stand. Protect all advanced regeneration during harvest operations. Cut all tree 4</p> <p><u>Specs:</u> inches or more. Use oak wilt spec with no exemptions due to amount of oak in understory.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of oak, pine or upland mixed deciduous is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>6</b>	<b>61156006-Cut</b>	20.6	4310 - Pine, Oak Mix	Sawtimber Poor	92	1-50	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
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Prescription Overstory removal with no retention due to small size of stand. Protect all advanced regeneration during timber harvest. Cut trees only 4 inches or greater during harvest. Use oak wilt spec with no exemptions due to the amount of oak in understory.

Next Step  
Treatments:

Acceptable Full to Moderately stocked stand with any combination of oak, pine and/or upland deciduous tree species.

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

<b>17</b>	<b>61156017-Cut</b>	3.8	6112 - Lowland Aspen	Poletimber Medium	68	1-50	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Clearcut with retention. Retention will be left as buffer for Taylor Creek. Only a portions of stand 17 will cut at this time. The south side of this stand which is adjacent to stand 26 will be harvested this year of entry. This will be the only way to access this part of the stand. Follow BMP guidelines for wetlands and Taylor Creek. Cut all trees 2 inches or greater in DBH during harvest.

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

Acceptable Aspen with any pine or red maple mixture is acceptable.

Other  
Comment:

Site Condition

Proposed Start Date: 1 /23/2020

<b>21</b>	<b>61156021-NF</b>	2.7	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		No
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Prescription Work around any beneficial vegetation (raspberry patch, mast bear shrub) to create a wildlife food plot of appropriate herbaceous species suited to site and soil conditions. Maintain as needed with mowing, native shrub planting, reseeding grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment. May want to plant some mast producing trees/shrubs and create brush piles for cover.

Next Step  
Treatments:

Acceptable  
Regen:

Other Traditional wildlife food plot  
Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>22 61156022-Cut</b>	32.1	42140 - Planted Mixed Pine	Sawtimber Well	86	111-140	Harvest	Overstory Removal	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Remove overstory with retention. Release well established advanced regeneration. Protect advanced regeneration during harvest. Green</p> <p><u>Specs:</u> mark to leave less then 1 tree per acre targeting white oak and white pine. Leave retention along north edge of stand to help protect the wetland. Follow BMP guidelines for wetland. Any buffer required for wetland should be used as retention.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully Stocked Stand of white pine, red pine, maple, aspen or oak.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>24 61156024-Cut</b>	10.1	42210 - Natural Red Pine	Sawtimber Well	89	111-140	Harvest	Seed Tree	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Seed tree. Leave less then 2 scattered pine or oak trees per acre in stand. Follow BMP guidelines for wetland. No retention is required do to</p> <p><u>Specs:</u> small size of stand. Protect any advanced regeneration present.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mixture of pine, aspen, red maple or oak species.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>26 61156026-Cut</b>	9.7	42290 - Natural Mixed Pine	Sawtimber Well	83	51-80	Harvest	Overstory Removal	42290 - Natural Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Overstory removal with no retention due to stand being under 10 acres in size. Leave less then 1 tree per acre scattered for a seed source.</p> <p><u>Specs:</u> Use oak wilt spec to protect oak seedlings. Protect all advanced regeneration during timber harvest operations. Do not cut any trees under 4 inches at DBH.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully Stocked Stand of white pine, red pine, aspen, maple or oak. Convert to same mixed stand.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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27	61156027-NF	3.0	3104 - Degraded	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops	No
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Prescription Degraded old well site. Remove exotics either with herbicide or mechanically. Disk , plant to annual rye for several years and then convert to appropriate native species mix or a perennial mix (i.e. clover/alfalfa). Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

29	61156029-NF	5.0	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous	No
----	-------------	-----	--------------------------------	------------	--	-------------	--------------	---------------------------------	--------------------------------	----

Prescription Degraded old well site. Remove exotics either with herbicide or mechanically. Disk , plant to annual rye for several years and then convert to appropriate native species mix or a perennial mix (i.e. clover/alfalfa). Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

30	61156030-Cut	49.1	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	92	81-110	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
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Prescription Clear cut with retention. Cut all trees 1" inch or greater during harvest. Chip tops to make follow up cultivation operations more efficient. Leave a minimal pocket of area retention which features the oak overstory and understory.

Specs:

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

Acceptable Fully stocked stand of red pine. Follow red pine management guidance with over 80 of red pine being free to grow.

Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>40 61156040-NF</b>	2.9	3104 - Degraded	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Degraded old well site. Remove exotics either with herbicide or mechanically. Seed to site appropriate native grasses for wildlife food and cover, or Forest Cert. approved annuals/perennials. Consider also seeding in native forbs.</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> WLD agreed to include this stand in a planting regime as part of the Wellsite Restoration Program.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>43 61156043-Cut</b>	53.6	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Poor	87	1-50	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Leave retention around wetland area (Stand 36). Use 1 inch cut spec and chipping spec to facilitate future planting operations.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> Fully stocked free to grow stand of red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>47 61156047-NF</b>	1.9	3104 - Degraded	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Degraded old well site. Remove exotics either with herbicide or mechanically. Disk , plant to annual rye for several years and then convert to appropriate native species mix or a perennial mix (i.e. clover/alfalfa). Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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56	61156056-Cut	23.5	42210 - Natural Red Pine	Sawtimber Poor	72	1-50	Harvest	Overstory Removal	4132 - Aspen, Jack Pine	Even-Aged	No
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Prescription Overstory Removal. Protect advanced regeneration as much as possible. Some areas Aspen will be destroyed do to how thick it is and how many red pines there are during timber harvest operations, which is fine. It will re-stump sprout. Leave retention along snowmobile trail and use snowmobile protection specs during harvest.

Specs:  
Next Step  
Treatments:

Acceptable Moderately to fully stocked stand of aspen and with any mixture of jack pine, white pine, cherry, oak and red maple.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

58	61156058-NF	5.9	3104 - Degraded	Nonstocked			Unspec NonForestMgt ified	Herbaceous/Crop /Grass Planting	31022 - Warm Season Grass		No
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Prescription Disk , plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) or appropriate native species.  
Specs: Degraded old well site. Remove exotics either with herbicide or mechanically. Seed to site appropriate native grasses for wildlife food and cover, or Forest Cert. approved annuals/perennials. Consider also seeding in native forbs.

Next Step Burn, Opening  
Treatments:

Acceptable  
Regen:

Other Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing,  
Comment: burning, or removal of woody encroachment.

Site Condition

Proposed Start Date: 10/1 /2021

65	61156065-Cut	85.3	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	86	51-80	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with retention. Leave retention were retention was left during original shelter wood cut. Cut all trees 1 inch or more in DBH. Chip tops to facilitate future red pine plantings.

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

Acceptable Fully stocked free to grow red pine stand.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
69 61156069-NF	2.0	3303 - Mixed Low Density Trees	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Work around any beneficial vegetation (raspberry patch, mast bear shrub) to create a wildlife food plot of appropriate herbaceous species suited to site and soil conditions. Maintain as needed with mowing, native shrub planting, reseeding grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment. May want to plant some mast producing trees/shrubs and create brush piles for cover.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

**Total Treatment Acreage Proposed: 409.8**

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Thomas Peterson III : Examiner

Compartment: 156  
Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		5C	2F	2H	3J	5E	ed
152	152	0	0	Aspen		0	0		0	
7	0	0	7	Cedar				7		
55	55	0	0	Herbaceous Openland						
222	222	0	0	Jack Pine						
2	2	0	0	Low-Density Trees						
50	21	0	29	Lowland Aspen/Balsam Poplar				29		
78	0	0	78	Lowland Deciduous				78	0	0
107	60	0	47	Lowland Shrub				47	0	
47	22	24	0	Mixed Upland Deciduous	24				0	
358	357	0	1	Natural Mixed Pines					1	
145	112	29	4	Oak	29				4	
90	32	57	0	Planted Mixed Pines	57					
404	353	40	11	Red Pine	40			0	11	
119	38	76	5	Upland Mixed Forest	76				5	
49	49	0	0	White Pine						
1,886	1,477	226	182	Total Forested Acres	226	0	0	161	21	0
	78%	12%	10%	Relative Percent						

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention from 61-080-12-01.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Thomas Peterson III : Examiner

Compartment: 156  
Year of Entry: 2022

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	5E: Long-Term Retention	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	78	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unspecified	Unspecified	0				
<b>Comments:</b>							



## Report 4 – Site Conditions

Traverse City Mgt. Unit  
 Thomas Peterson III : Examiner

Compartment: 156  
 Year of Entry: 2022

10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	29	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention for stand Number 9.							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	58	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Traverse City Mgt. Unit  
Thomas Peterson III : Examiner

Compartment: 156  
Year of Entry: 2022

16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	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

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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
1	42200 - Natural White Pine	Poletimber Poor	12.4	62	1-50	N/A	Stand has regenerated nicely. Regeneration is to advanced to go after overstory.																																															
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2	310 - Herbaceous Openland	Nonstocked	3.6		Unspecified	No	Abandoned well site.																																															
3	42290 - Natural Mixed Pine	Sawtimber Well	49.5	85	111-140	N/A	Took 10 Basal Area points in stand: 160, 130, 150, 180, 200, 190, 130, 150, 150, and 180. There is an average basal area of 162. Thin stand down to 120 at this time removing 1/3 of the basal area.																																															
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4	42250 - Pine, Oak	Sawtimber Poor	26.3	103	1-50	N/A	Stand was Shelter Wood cut in in 2014. Stand has a lot of white oak in understory, with a mix of Pine and other mixed deciduous trees. Good stand to release understory at this time before understory gets to far advanced.																																															
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5	42250 - Pine, Oak	Sawtimber Poor	22.8	72	1-50	N/A	Shelter wood cut in 2014. Average residual BA ~ 20 sf/acre. More pine in west end. Release Advanced Regeneration in this stand.																																															
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6	4310 - Pine, Oak Mix	Sawtimber Poor	20.6	92	1-50	N/A	Stand was shelter wood harvested in 2014. Stand has a lot of advanced regeneration that can be released at this time.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
7	42200 - Natural White Pine	Sawtimber Poor	36.8	85	1-50	N/A	Stand is an old shelter wood cut from 2004. Trees left for shelterwood are mostly white pine with a few scattered oak. Stand has regenerated nicely. Regeneration is to advanced to go after overstory. Leave overstory till stand is ready to be harvested.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Oak		10	Log	12		White Oak		
White Pine		80	Log/Pole	10	85	Bigtooth Aspen		
Red Oak		10	Log/Pole	10		White Pine		
						Red Oak		
8	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	5.6	13	Immature	N/A	Planted Jack Pine. Planting Records show planted in 2008	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Jack Pine		70	Sapling	2	13			
White Oak		10	Sapling	1				
Quaking Aspen		10	Sapling	2				
Red Oak		10	Sapling	2				
9	4122 - Oak, Pine	Sapling Medium	29.6	16	Immature	N/A	Stand has some open areas in it still at this time. Oak that has grown pass deer browse line is in good shape. Deer have browsed this stand heavily.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
White Oak		45	Sapling	1	16			
White Pine		20	Sapling	2				
Red Oak		15	Sapling	1	16			
Jack Pine		10	Sapling	2				
Red Maple		10	Sapling	1				
10	4126 - White, Black, N. Pin Oak	Sapling Poor	5.5	28	Immature	N/A	Stand is right between being called a opening or forested stand. Oak saplings in this stand have been browsed heavy by deer. Consider planting to pine if there is ever a site near by to make it worth planting a 5 acre stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Oak		20	Sapling	1				
White Oak		50	Sapling	1	28			
Black Cherry		30	Sapling	1				
11	6112 - Lowland Aspen	Poletimber Well	12.5	45	81-110	N/A	There are Tag Alder present throughout the stand. Good indicator of lowland ground. Aspen is good quality at this time. Make sure BMP for Taylor Creek is followed when harvesting this stand in the future.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		60	Pole	7	45	White Pine		
White Pine		25	Log	14		Tag Alder		
Red Maple		15	Pole	6				
12	4122 - Oak, Pine	Sawtimber Medium	28.8	89	81-110	N/A	Stand has no mortality at this time hold for anther 10 years. Stand was part of the 2005 "Taylor Cr. Oak" Cut. No oak regeneration present at this point. Some white pine regeneration in stand. Stand has some topography in it as it drops down into the Taylor Creek wetland area.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Oak		35	Log/Pole	12		White Pine		
White Oak		35	Log/Pole	12	89			
White Pine		20	Log	12				
Red Pine		10	Log/Pole	12				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	622 - Lowland Shrub	Nonstocked	12.7		Unspecified	No	Stand has Taylor Creek Running Through it. Looks like there are a few scattered trees throughout area, lots of tag alder.
14	622 - Lowland Shrub	Nonstocked	27.5		Unspecified	No	Taylor Creek Runs through Stand. A few poor quality standing trees in stand.
		<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		Tag Alder		High	5 - 10 feet	Tall Shrub	
15	4124 - Red with White Oak	Sawtimber Well	80.9	76	81-110	N/A	Stand has a good amount of white pine seedlings scattered throughout the stand. Stand is in good shape. Hold oak for another 10 years and consider clearcutting at this time.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		40	Log/Pole	10	76	White Pine	
White Oak		30	Log/Pole	10		High	
Quaking Aspen		5	Pole	8		5 - 10 feet	
White Pine		10	Log/Pole	10		Sapling	
Red Pine		15	Log/Pole	10			
16	42110 - Planted Red Pine	Sawtimber Well	64.5	65	141-170	N/A	Basal areas of 140, 140, 190, 180, 160, 90, 100 for average BA of 142. Thin next year of entry or when basal area is greater than 160 BA
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		5	Log/Pole	10		White Pine	
White Oak		10	Log/Pole	10		Medium	
White Pine		20	Log/Pole	10		5 - 10 feet	
Red Pine		60	Pole	8	65	Low	
Jack Pine		5	Pole	8		5 - 10 feet	
						Sapling	
17	6112 - Lowland Aspen	Poletimber Medium	37.7	68	1-50	N/A	Taylor Creek runs through stand. Stand is very wet. Some areas of stand were ash, but all ash is dead at this time. Other areas of this stand have an aspen component. There are a few higher areas in stand that may be harvested. Cut these areas when adjacent stands are harvested.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		10	Pole	6		Tag Alder	
Quaking Aspen		35	Pole	6	68	High	
Balsam Poplar		10	Pole	6		5 - 10 feet	
Balsam Fir		10	Pole	6		Tall Shrub	
Black Ash		35	Pole	6			
19	6120 - Lowland Cedar	Poletimber Well	7.0	96	51-80	N/A	Lots of cedar falling down. Filling in with tag alder and ash. Stand has Taylor Cr. Running through it
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Northern White Cedar		80	Pole	8	96	Black Ash	
Black Ash		20	Pole	6		Low	
						< 5 feet	
						Sapling	
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20	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	40.0	90	81-110	N/A	2020 - Most of Jack pine has fallen out. Stand has an average basal area of 118. Points ranged from 80-150 BA throughout the stand. Hold stand and consider restarting red pine next year of entry.  2010- Stand is a mix of mature and immature red pine, oak, with small amounts of jack pine and aspen. Originally part of Stand 30 which was not treated. Stand data 1/28/2010.																																										
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21	3105 - Mixed Upland Herbaceous	Nonstocked	2.7			Managed Opening	Stand has been maintained by Wildlife as a food plot.																																										
22	42140 - Planted Mixed Pine	Sawtimber Well	32.1	86	111-140	N/A	2020 Regeneration is Advanced at this time. Basal areas through stand range from 70 -130. Remove overstory at this time  2010 - Aspen and hardwoods were removed in 2004. Pine is tall and has good form 6-7 stick																																										
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23	4133 - Aspen, Mixed Pine	Poletimber Well	24.4	45	51-80	N/A	Stand has some topography going down to Taylor Creek. Stand has a lot of White Pine under the Aspen at this time. The ridge that drops down to Taylor Creek has a decent amount of poor quality red maple on it.																																										
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24	42210 - Natural Red Pine	Sawtimber Well	10.1	89	111-140	N/A	Basal area higher in red pine pockets. Red pine pockets scattered throughout the stand. Stand has some decent topography in it.																																										
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25	622 - Lowland Shrub	Nonstocked	17.7			No	Has Taylor Creek Running through it.																																										
26	42290 - Natural Mixed Pine	Sawtimber Well	9.7	83	51-80	N/A	Stand has a lot of advanced regeneration that was established during a species removal / thinning.																																										
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27	3104 - Degraded	Nonstocked	3.0		Unspecified		Maintain as needed with mowing, seeding, fertilizing, burning, or removal of woody encroachment. Old oil well.																																								
28	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	26.3	37	1-50	N/A	Stand has several open areas in it. Stand has very shrubby open grown white pine. This will be a good candidate for a future red pine stand once current stand puts on enough growth to consider harvesting.  Past inventory - Pocket of pole timber along the west end of stand. 2/15/2000 This stand did not regenerate very well. W1-M1-J1, It will come back to white pine. Very bad wevil. (Grieve) 2/26/2000 (Grieve)																																								
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29	3105 - Mixed Upland Herbaceous	Nonstocked	5.0		Unspecified	Managed Opening	Maintain as needed with mowing, seeding, fertilizing, burning, or removal of woody encroachment.																																								
30	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	49.1	92	81-110	N/A	Stand has open pockets located within it. Red pine that was left is around 80 Basal area. No regeneration under stand. Oak that was regenerated has been browsed heavily by deer. Good stand to start red pine over in.  2014 Notes - Cut summer 2014. Red pine was thinned parts of stands that were heavier to jack pine and were clearcut.																																								
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31	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	4.8	16	Immature	N/A																																									
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32	4132 - Aspen, Jack Pine	Sapling Well	10.5	28	Immature	N/A	Some Scattered White Pine Logs Left Scattered Throughout Stand. A few open Areas in Stand.																																								
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33	310 - Herbaceous Openland	Nonstocked	22.6			No	Powerline runs through this stand. Powerline right-of-way has been kept clear of trees by powerline company.																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
35	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	10.9	69	1-50	N/A	Stand appears to be stand were red maple, aspen and most of the jack pine were removed during a pasts timber harvest. There are bigger oaks and red pine left scattered throughout the stand. Some parts of the stand is fully stocked with oak other parts of stand have minimal stocking.																																														
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36	622 - Lowland Shrub	Nonstocked	2.2			No	Stand is a unique lowland stand. It has some steep terrain going down to it. It was snow covered during inventory so no water was present at this time.																																														
37	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	20.0	16	Immature	N/A	Several Aspen clones out competing jack pine at this time. North side of stand has a lot of aspen in it.																																														
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38	42250 - Pine, Oak	Sawtimber Well	15.9	68	81-110	N/A	Oak is starting to establish in under story along with white pine. Remove overstory next year of entry to allow established oak seedlings to be released.																																														
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39	4132 - Aspen, Jack Pine	Sapling Well	5.4	18	Immature	N/A	Stand has a good mixture of aspen and jack pine at this time. Stand has a few open spots in it. Oak seedlings were browsed heavy by deer in this stand.  Stand cut in 11/4/03 'Boardman River Oak'																																														
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40	3104 - Degraded	Nonstocked	2.9		Unspecified		Old gas well site. No well heads present at this time. Plugged in 2010.																																														
41	4132 - Aspen, Jack Pine	Sapling Well	73.8	28	Immature	N/A	Stand overstory is mostly dominated by aspen at this point. However there is a lot of jack pine under the aspen so in the future stand possible could be considered a jack pine stand if jack pine eventually out competes the aspen.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**42** 6119 - Mixed Lowland Deciduous Forest Poletimber Poor 78.3 108 1-50 N/A Wet stand tag alder understory. Has Taylor Cr. running through it. Some scattered cedar in stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Pole	6	108
Quaking Aspen	10	Pole	6	
Balsam Fir	5	Pole	6	
Northern White Cedar	5	Pole	6	
Black Ash	40	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	High	5 - 10 feet	Tall Shrub

**43** 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Poor 57.2 87 1-50 N/A Stand was more of a shelter wood cut last time it was harvested. The Oak regeneration has been browsed heavy by deer. Good stand to final harvest and restart red pine.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	10	Pole	8	
Red Pine	70	Log	14	87
White Pine	10	Log	12	
White Oak	10	Log/XLog	16	

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

2014 notes - Cut summer 2014. Hopsquatch Pine, 61-080-12-01.

**45** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 24.4 83 81-110 N/A Stand has oak seedlings establishing in it. Clearcut or seed tree cut next year of entry.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	6	
Red Oak	10	Log/Pole	12	
White Oak	40	Log/Pole	12	83
Quaking Aspen	10	Pole	8	
Red Pine	25	Log/Pole	12	
Jack Pine	10	Pole	8	

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

**46** 4310 - Pine, Oak Mix Sawtimber Well 42.5 81 81-110 N/A Stand has a good mix of pine and oak at this time.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	50	Log/Pole/XLog	14	81
White Oak	20	Log/Pole/XLog	14	
Red Oak	20	Log/Pole/XLog	14	
Jack Pine	5	Pole	8	
Bigtooth Aspen	5	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	5 - 10 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling

**47** 3104 - Degraded Nonstocked 1.9 Unspecified Managed Opening Periodic maintenance such as mowing, burning, fertilization, reseeding, and/or removal of woody encroachment. Old oil and gas site plugged in 2000.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
48	42260 - Natural Pine, Mixed Deciduous	Sapling Well	12.1	7	Immature	N/A	Stand was shelterwooded with scattered red pine logs left in it in 2014.. Stand has regenerated to aspen and jack pine. There was a lot of red pine left, but due to how nicely the stand has regenerated, there is no need to go after the red pine until jack pine is ready to be harvested.																																																					
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49	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	11.5	7	Immature	N/A	2020 - Stand is moderately to poorly stocked at this time. Stand does have a few aspen clones that have taken off well and a mixed batch of other upland species. Stand does not have enough overstory to go after.  Seedtree cut in 2014. Average residual BA = 15 sf/acre. Left retention around 2 small vernal pools in western part of stand.																																																					
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50	42290 - Natural Mixed Pine	Sawtimber Well	7.6	83	81-110	N/A	Mixed stand. Leave for now, age class diversity																																																					
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51	4310 - Pine, Oak Mix	Sawtimber Poor	10.2	76	1-50	N/A	Stand has limited regeneration and snowmobile trail runs through it. All oak seedlings in this area have been browsed hard by the deer. Let stand sit another 10 years to see if the top can be removed. If no regeneration is present at this time clearcut and plant red pine. Stand was shelter wood cut in 2014 - harvest notes = Average residual BA = 24. Cut in 2014. Removed all aspen, jack pine and red maple + marked pine.																																																					
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52	3104 - Degraded	Nonstocked	1.6		Unspecified		Old oil well plugged in 2014. Appears to be old gas well site. No gas well present any more. Grassing opening with trees starting to encroach into it. consider planting red pine if any close trenching sites are being completed.																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>53</b>	4310 - Pine, Oak Mix	Sawtimber Poor	38.6	93	1-50	N/A	Stand was Shelterwood cut in fall 2014. Average residual BA ~ 20-40 sf/acre. More of an oak component on the south part of stand. At this point stand could go either way with close to 30 % of the stand being in canopy being saw logs. Stand has a lot of white oak in understory. Going to let stand go and see what happens. Stand 5 is very similar going to remove overstory in stand 6 and compare outcomes of different stands.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	5	Log/Pole	12		White Pine	Low		5 - 10 feet	Sapling
White Oak	45	Log/Pole	12	93	White Oak	High		< 5 feet	Sapling
White Pine	15	Log/Pole	12		Red Oak	Low		< 5 feet	Sapling
Red Pine	35	Log/Pole	12	93	Jack Pine	Low		< 5 feet	Sapling
<b>54</b>	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	38.0	14	Immature	N/A	Stand is moderately to low stocked at this time. Oak has been hit hard by deer browse and jack pine has taken off nicely. There are some aspen clones in the stand and some scattered red maple and cherry. There are also several open pockets located in this stand.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Oak	5	Sapling	1						
White Oak	10	Sapling	1	14					
Jack Pine	60	Sapling	1	14					
Quaking Aspen	15	Sapling	1						
<b>55</b>	42290 - Natural Mixed Pine	Sawtimber Well	43.8	86	51-80	N/A	Stand 65 and 55 were the same until 65 was Shelterwood harvested in the summer 2014. Mixed stand has a bit of everything. North east part of stand is heavier to red pine. Some white pine regen present. Clearcut next year of entry creating a future mixed stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	5	Log/Pole/XLog	14		White Pine	Medium		5 - 10 feet	Sapling
White Oak	5	Log/Pole	12		Jack Pine	Low		< 5 feet	Seeding
White Pine	10	Log/XLog/Pole	14		Red Maple	Low		< 5 feet	Seeding
Red Pine	49	Log/Pole	12	86	Quaking Aspen	Low		< 5 feet	Sapling
Jack Pine	20	Pole/Log	8						
Bigtooth Aspen	10	Log/Pole	10						
Paper Birch	1	Pole/Log	8						
<b>56</b>	42210 - Natural Red Pine	Sawtimber Poor	23.5	72	1-50	N/A	Stand was shelterwooded with scattered red pine logs left. Stand is regenerating to aspen and jack pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	100	Log	12	72	Jack Pine	Low		Variable	Sapling
					Bigtooth Aspen	High		5 - 10 feet	Sapling
					Red Maple	Low		5 - 10 feet	Sapling
					Red Oak	Low		< 5 feet	Sapling
					White Oak	Low	< 5 feet	Sapling	
<b>57</b>	4133 - Aspen, Mixed Pine	Sapling Well	27.6	18	Immature	N/A	Stand has some scattered pole timber left mostly white pine and some oak logs. Sale was cut 17 years ago as part of Sale 'Boardman River Rd. Oak'. Stand has a few open spots in it at this time.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Maple	20	Sapling	1						
White Oak	5	Sapling	1						
Quaking Aspen	40	Sapling	2	18					
White Pine	15	Sapling/Pole	2						
Red Pine	5	Sapling	1						
Jack Pine	15	Sapling	2						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
58	3104 - Degraded	Nonstocked	5.9		Unspecified		Stand is an abandoned well site.																																													
59	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	57.5	86	111-140	N/A	Used to be part of Stand 65 but was not treated. Stand has records that Red pine and white pine were planted in 1935. Hold stand and consider cutting and replanting to red pine in future or Clearcut stand and allowing natural mixed stand could also be considered  Original comments [SC 1/28/2010]: Mixed stand has a bit of everything. Northeast part of stand is heavier to red pine. Some white pine regen present																																													
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60	4133 - Aspen, Mixed Pine	Sapling Well	10.2	18	Immature	N/A	Some scattered pole timber left along with some oak logs. Some area didn't regenerate very well. some pockets of decent aspen regen.																																													
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61	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	49.6	16	Immature	N/A	Jack Pine was Planted in 2005. Jack pine has good survival rates. Aspen has out competed the Jack Pine in several spots throughout the stand.																																													
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63	42210 - Natural Red Pine	Sawtimber Poor	66.8	76	1-50	N/A	Stand has a variable BA across ranging from 0 to 110. Stand has had some success regenerating to aspen and jack pine in certain areas of it. There are a lot of small jack pine tops sticking out of the snow at this time. Leave stand for another 10 years and see if it continues to fill in and regenerate. Seed tree cut in fall 2014. Left scattered overstory pine in pockets.																																													
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64	3104 - Degraded	Nonstocked	2.8		Unspecified		Old oil well plugged in 2001. Stand has a few trees encroaching into it.																																													



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65	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	92.5	86	51-80	N/A	Stand has a few pockets of aspen that regenerated in it after shelter wood, but little to no regeneration were there are no aspen clones present. Aspen clones won't thrive will all the canopy that was left during harvest.																																												
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67	6229 - Mixed lowland shrub	Nonstocked	47.1	0		No	Stand has perennial drain running through it. Tag Alder throughout the entire stand with some poor quality aspen growing sporadically throughout the stand. Stand does have some standing water in the west end of it at least during a very wet fall.																																												
68	42220 - Natural Jack Pine	Poletimber Well	104.2	45	51-80	N/A	Jack Pine is shorty and stubby compared to other jack pine of this age class. Stand appears to be healthy leave until next year of entry and re-evaluate.																																												
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69	3303 - Mixed Low Density Trees	Nonstocked	2.0			Managed Opening	Stand is grass opening that has Jack Pine seeding into it.																																												
70	42290 - Natural Mixed Pine	Sawtimber Well	44.9	83	81-110	N/A	Red and white pine super canopy. Jack and white pine understory under big red and white pines. Appears this was some sort of shelter wood from the past. Allow Jack Pine and White Pine to reach merchantability then Clearcut Stand. Going after big white and red pine right now would destroy the understory that is almost merchantable.																																												
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71	3104 - Degraded	Nonstocked	3.5		Unspecified		Invasive Species found in this old well site, Autumn Olive. Previous stand notes said stand was trenched in the past and was ready to plant to read pine. I conformed there were trenches but no evidence of any red pine planted. Autumn olive looks like it has been sprayed in the past, but I have found no records of it.																																												
73	42260 - Natural Pine, Mixed Deciduous	Sapling Well	37.1	14	Immature	N/A	Stand has a Super Canopy of White oak, red oak, and some scattered pine throughout the stand. Stand has a thick jack pine understory with some scattered mixed deciduous species. Stand has a few open pockets in it also.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>75</b>	4310 - Pine, Oak Mix	Poletimber Well	7.5	36	51-80	N/A	Some decent quality pine and oak logs.
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	35	Sapling/Pole	4	
White Pine	45	Pole/Sapling	7	36
Red Oak	15	Sapling/Pole	3	
Red Pine	5	Pole/Sapling	7	

<b>76</b>	42290 - Natural Mixed Pine	Sawtimber Well	10.5	66	81-110	N/A	Mixed pine stand. West end of stand is more of a W6.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	20	Log/Pole	10	
White Pine	50	Log/Pole	10	66
Jack Pine	20	Pole/Log	8	
White Oak	5	Log/Pole	10	
Red Oak	5	Log/Pole	10	

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

<b>79</b>	42290 - Natural Mixed Pine	Sawtimber Well	51.8	51	81-110	N/A	Stand must have been some sort of species removal / shelterwood last time it was cut. Stand has a Super Canopy of Red Pine that was left during the shelterwood cut. Were there is a higher BA of red pine present there is white pine understory. Were there are a few scattered red pine there is Jack Pine in understory. Hold 10 more years then clearcut stand. Allowing stand to come back to a mixed pine stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	50	Log/Pole	10	51
Red Pine	40	Log/Pole/XLog	14	
White Oak	3	Log	12	
White Pine	7	Log/Pole/XLog	14	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	High	5 - 10 feet	Sapling
Red Pine	Low	5 - 10 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling
Red Oak	Low	10 - 20 feet	Sapling
White Oak	Low	10 - 20 feet	Sapling