



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61132

Entry Year 2022

Acreage: 3,376

County Kalkaska

Management Area: Camp Grayling

Revision Date: 2020-08-03

Stand Examiner: Kelly Standerfer

Legal Description:

T26N R6W, Sections 25, 26 & 36
T26N R5W, Sections 28, 29, 30, 31, 32 & 33
T25N R5W, Section 4

Identified Planning Goals:

The Camp Grayling management area (MA) is the Michigan National Guard training grounds used primarily for military exercises while allowing varying degrees of Department of Natural Resources (DNR) management on certain portions depending on classification of ownership. The department will coordinate all prescribed activities with the National Guard to ensure they are compatible with military training needs. On these lands military training has precedence over resource management activities. Management in the Camp Grayling management area will emphasize continued balancing the age-class of aspen on suitable sites and regenerating the aging oak resource. Management will strive to sustainably produce various forest products, enhance game and non-game wildlife habitat and protect areas of unique character while accommodating military training. Management activities will be constrained or modified based on military training needs. Expected trends within this 10-year planning period are introduced pests and diseases and the difficulty in regenerating oak.

Soil and topography:

Lupton Muck, Newton Loamy sand, Grayling sand and Graycalm sand.

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

Primarily state owned Military Board land with some private parcels along the Manistee River. Outside of the military use, the land use in this compartment centers primarily upon recreation. Most of the private holdings along the Manistee river have a cabin built near the riverbank.

Unique Natural Features:

Red-shouldered hawk, N. Kirtland's warbler and Massasauga recorded in compartment.

Archeological, Historical, and Cultural Features:

There is a concern in section 33.

Special Management Designations or Considerations:

The Manistee River and all associated tributaries in the compartment are Designated Trout Streams, and the Manistee River in this area is considered a "Blue Ribbon Trout Stream" by Fisheries Division. The Manistee River is under Natural Rivers designation, therefore, no cutting should take place within 175 feet of the Manistee River or within 50 feet of any of the other small tributaries in this area. The river corridor within this compartment is a Quality fishing area with special regulations including "flies only" restrictions. The Manistee River in this area is very heavily used by anglers and recreational canoeists. Most of the compartment is Military Board Land that is dedicated to the military for training and maneuvers. The military use is coordinated by Camp Grayling National Guard.

Watershed and Fisheries Considerations:

The Manistee River, Clear Creek, and several unnamed tributaries flow through Compartment 132. All are Designated Trout Streams. The Manistee River hosts self-sustaining populations of brown, brook, and rainbow trout. The Manistee River in this vicinity is very heavily fished by anglers seeking trout. In addition, the Manistee River is protected under the Upper Manistee River Natural Rivers Designation. For Stand 28, bmps should be followed along the unnamed stream.

Wildlife Habitat Considerations:

Most of this compartment falls in a broad, flat outwash plain with dry, sandy soils. This is historically a highly dynamic, fire-driven ecosystem. Maintain a variety of age classes of jack pine within the compartment, aiming for relatively equal acreage of each age class. Thus, a continual presence of mature cover will be present in this important deer wintering area, as well as diverse habitat for numerous songbirds and small mammals, etc. Red pine plantations should retain

deciduous trees (e.g. cherry, oak) and down logs as much as possible to diversify within-stand habitat. Bottomland types also provide deer winter cover and habitat for hares, bobcats, and bears. Lowland hardwood forests here have been clearcut in the past with poor results. Some small patch cuts in these types may be appropriate to replicate natural blowdown events, but care must be taken to avoid converting sites to emergent wetland cover. Military operations call for avoidance of creating Kirtland's warbler habitat, so jack pine cuts should be designed with relatively small sized or irregular patches, retaining deciduous trees, snags, and other features useful to wildlife in general but not conducive to KW occupancy. State owned lands along the river should be maintained in mature forest cover as much as possible, including some super canopy white pine for potential eagle/osprey nests or roosts.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium and dune sand. The glacial drift thickness varies between 200 and 800 feet. Beneath the glacial drift are the Mississippian Michigan Formation and Marshall Sandstone. The Michigan is quarried for gypsum and the Marshall has been used for a building stone in the past. The nearest gravel pit is within one mile to the southeast in the SW of Section 3. Gravel potential in the compartment is considered good, especially the southeast corner. This area is located one mile north of Garfield 8 Field. The field produces from the Devonian Richfield and the Ordovician PdC. The PdC has produced over 46 Bcf gas. There may be additional Devonian and Ordovician potential in the compartment. A couple parcels of DMVA lands are leased.

Vehicle Access:

Roads that are not designated county roads in this area have been closed to ORV's to minimize military training conflict.

Survey Needs:

The bulk of the needed survey corners for forest management activities were established for last YOE treatments.

Recreational Facilities and Opportunities:

CCC Bridge State Forest Campground - Stand 3 is the south unit of the CCC Bridge SFCG. River Access Sites - A number of access points to the Manistee River are in place along King Road. These informal access points are the subject of evaluation by the Upper Manistee River Access Committee. None of the river access points are officially managed now and some are causing concern due to overuse and degradation to the Manistee River. Most of these sites are simply traditional use areas that were established by fishermen over a period of many years. These same access points are now heavily used by canoeists, float tubers, kayakers and river boat fishermen. This stretch of the Manistee River has been a Quality Fishing area for several years. In 1999, this "Flies Only" area was expanded to include the stretch from M-72 to Yellow Trees Landing. The result was that a great deal of attention and increased use has focused upon the entire river corridor. Hunting - there is fairly heavy pressure during the whitetail deer season.

Fire Protection:

This compartment has been hit numerous times by moderately large fires. Large contiguous blocks of explosive Jack Pine fuels, cause this area to be vulnerable to wildfires of catastrophic proportions. Few natural fuelbreaks exist, with the exception of the Manistee River. Heavy use of the area by Military troops in the summer months increases the human factor. The military has, to some degree, reduced careless use of incendiary devices lowering the fire incidence on their land base somewhat. The threat of loss of life due to being trapped by a full fledged Jack Pine wildfire is a serious concern during peak periods of Military training. Sharon Truck Trail/Howe Road is designated as a fuelbreak. VFD protection is from Bear Lake Fire Dept., and DNR protection is from the Kalkaska Field Office. The entire compartment falls within Zone 5 which means on a Very High or an Extreme Fire day, DNR equipment from several stations respond to the fire. Urban Interface is a major concern along the river, with many cabins and seasonal residences present.

Additional Compartment Information:

The following reports from the Inventory are attached:

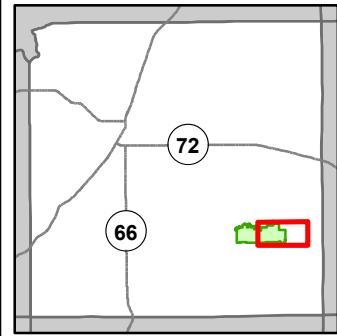
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

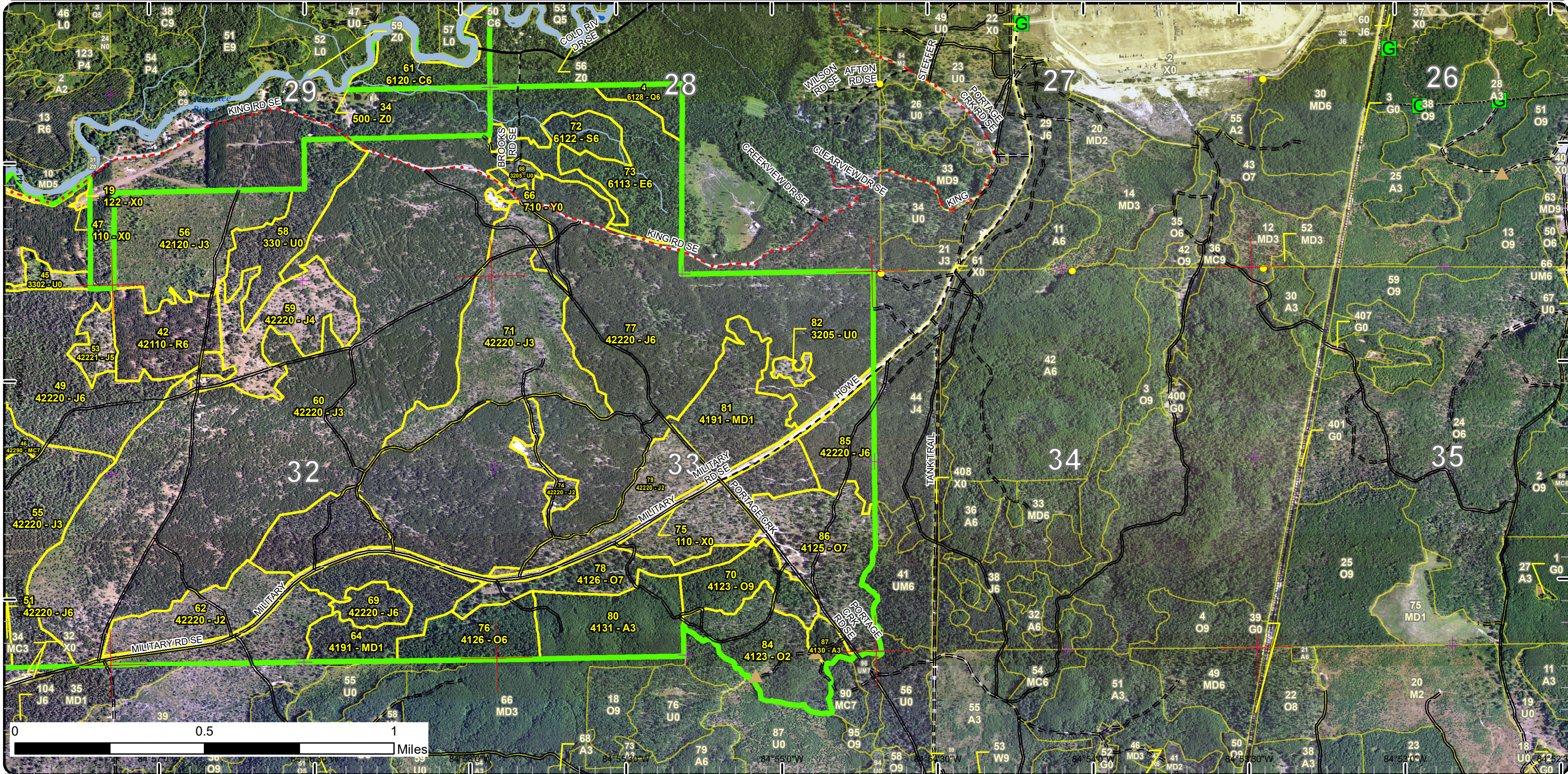
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Stand Boundary Map

Compartment: 132
 T26N R6W, Sections 25, 26 & 36
 T26N R5W, Sections 28-33
 T25N R5W, Section 4
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Camp Grayling
 YOE: 2022
 Acres: 3,376.2 GIS Calculated
 Examiner: Kelly Standerfer
 Map Revised: 1/6/2021
 Map Phase: Post-Review

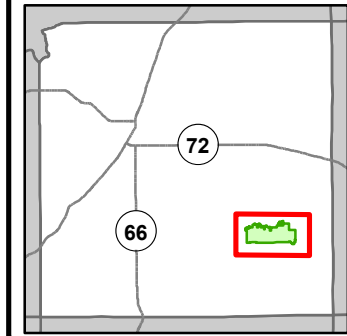


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Dirt Road
- Private - Dirt / Gravel Road
- ▲ Berms
- G Gate
- Intermittent Stream
- Island in Lake or River
- Perennial River
- Lakes and Rivers
- Pipeline
- Fence
- Compartment Boundary
- Stand Boundaries
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 710 - Sand/Soil

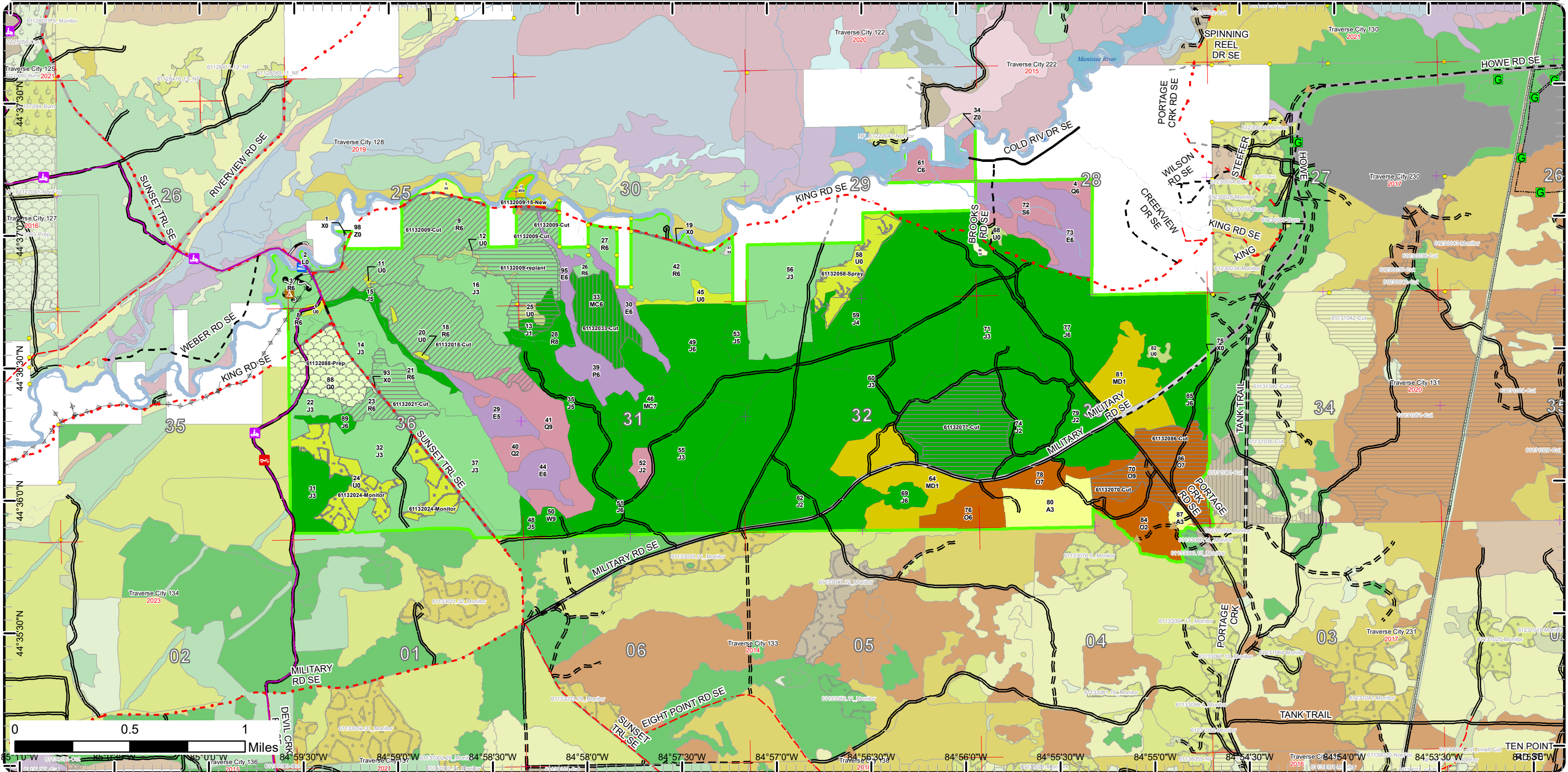


Cover Type & Treatments Map

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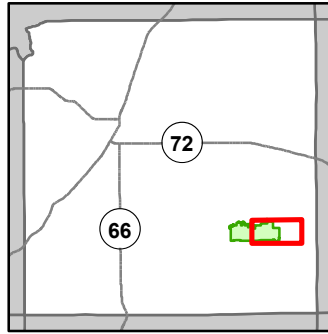


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- Snowmobile Trails
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- Berms
- Gate
- Boating Access Site
- Campground
- Intermittent Stream
- Island in Lake or River
- Lock/Levee
- Perennial River
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- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Pesticide
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- Site Prep
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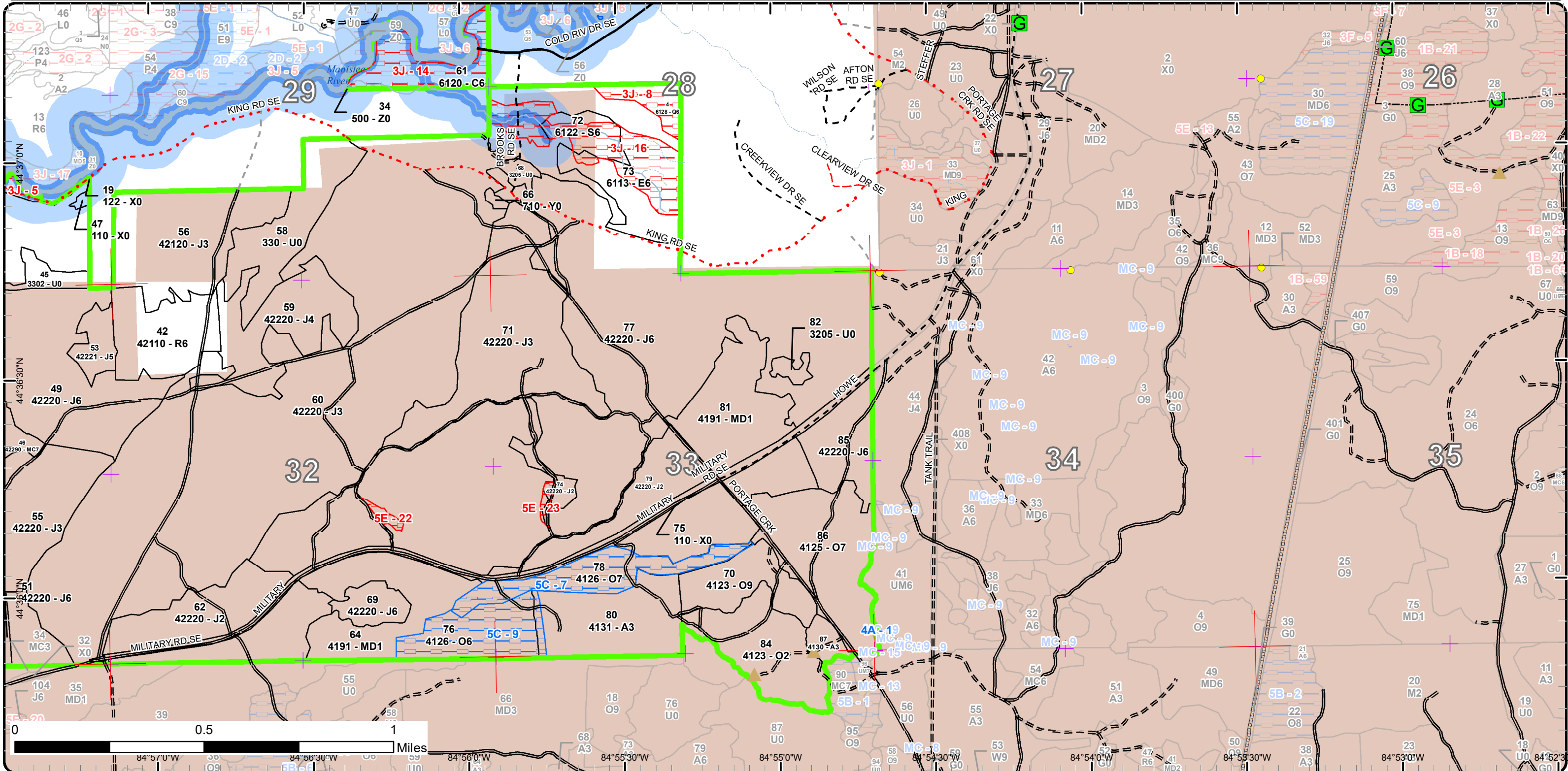


Special Conservation Areas

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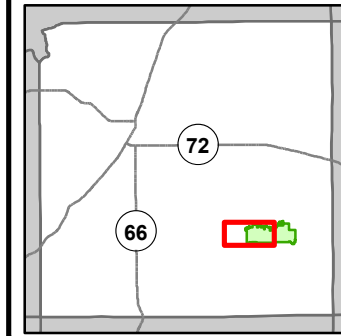


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 - Compartment Boundary
 - Available w/ Constraints
 - Unavailable
 - Stand Boundaries
 - Natural Rivers Vegetative Buffer
 - Natural Rivers Zoning District
 - Cold Water Streams
 - Cold Water Lakes
 - Research, Development, and Military Lands
- 4A: No Markets Available for these Forest Products
 5C: Delay treatment for age/size class diversity or exceptional site quality
 3J: Water quality / BMPs (stream, river, or lake)
 5E: Long-Term Retention

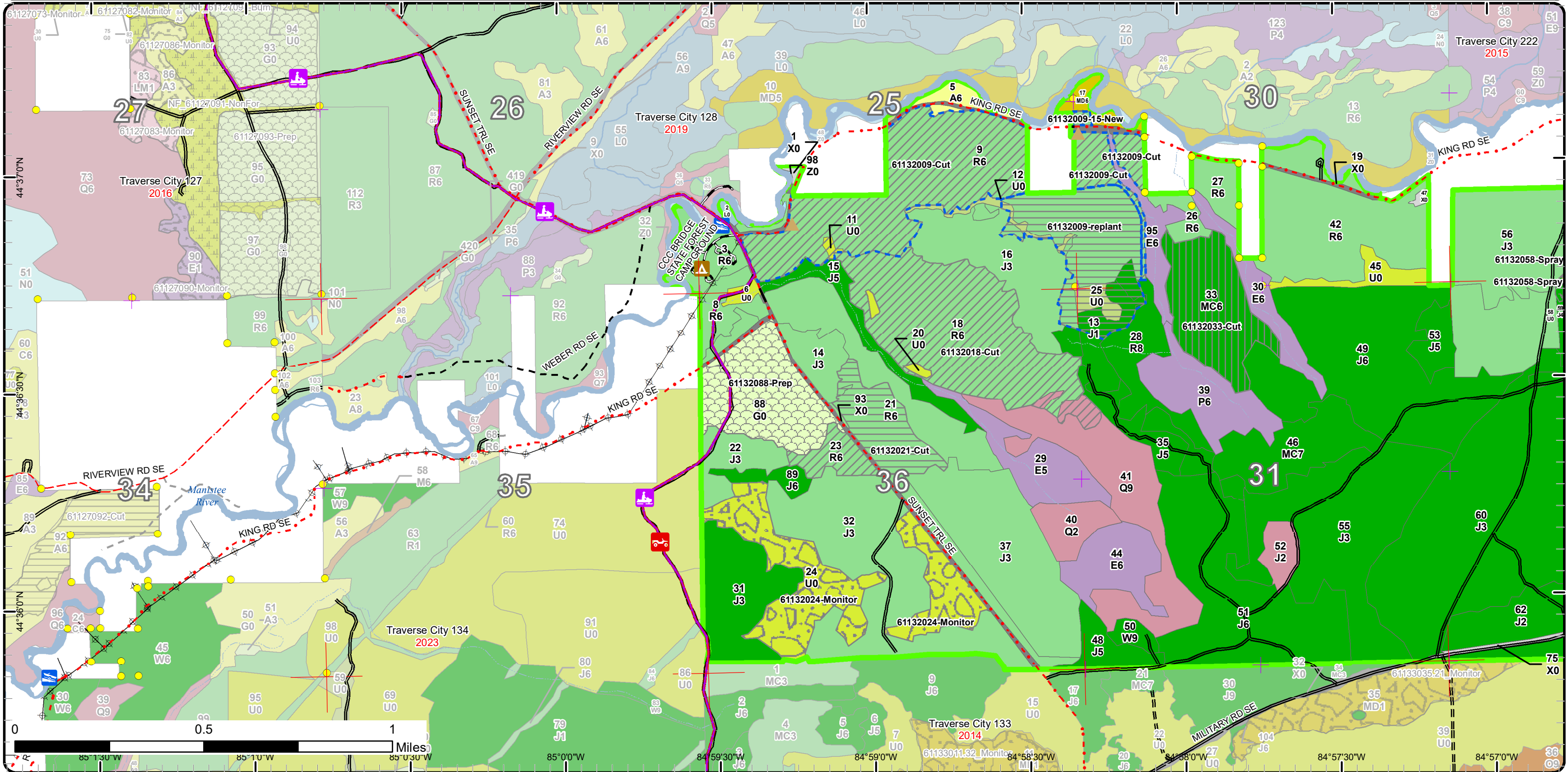


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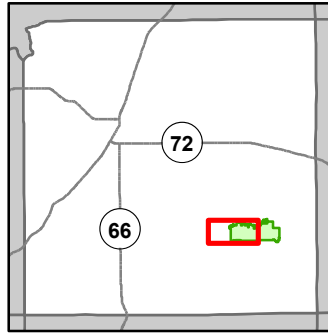


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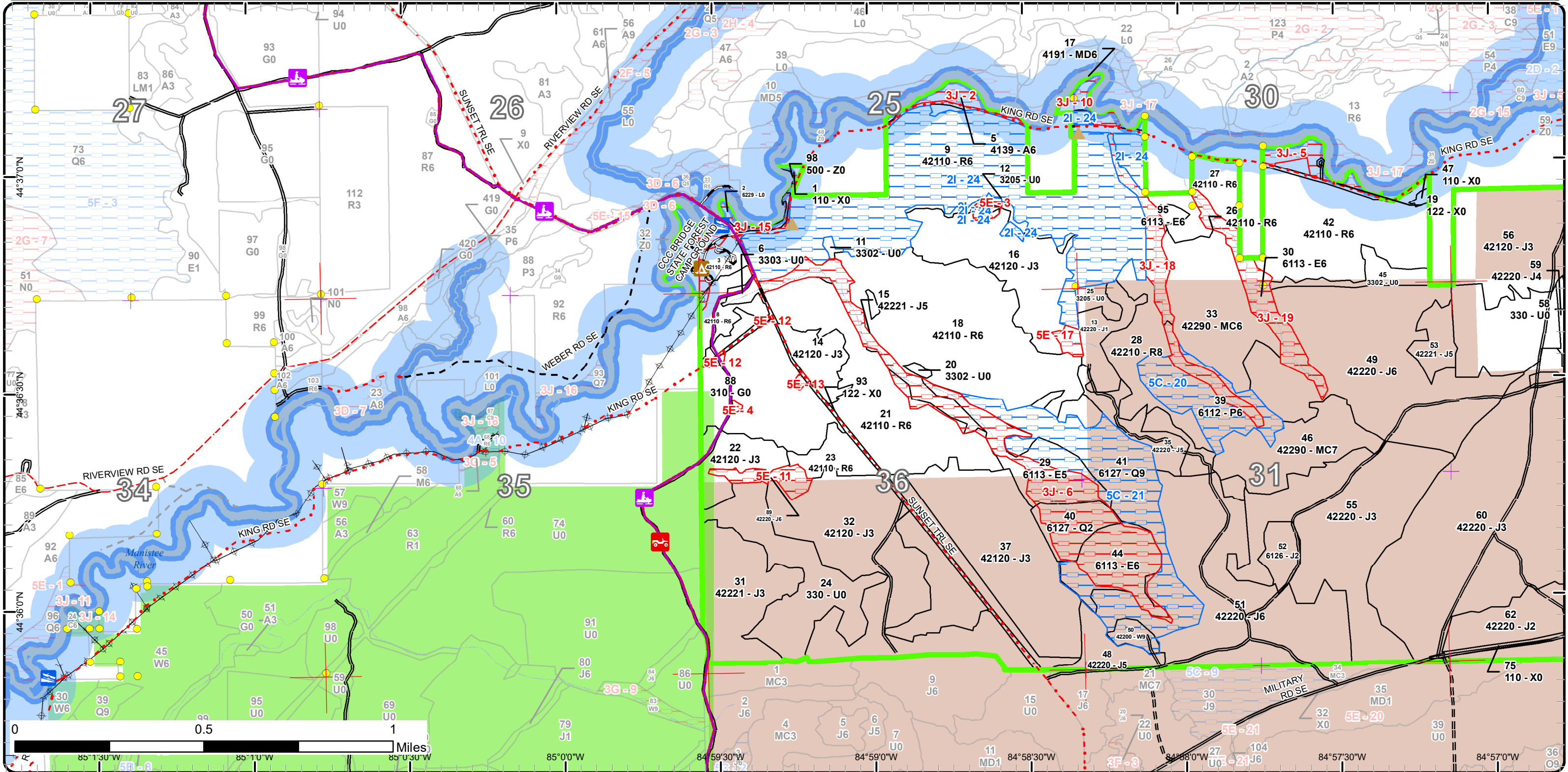


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- Island in Lake or River
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- Research, Development, and Military Lands



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	0	0	0	51	7	0	0	0	0	0	0	0	0	0	0	0	0	58
Cedar	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	24
Herbaceous Openland	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Jack Pine	0	23	331	179	759	474	35	0	7	0	17	0	0	0	0	0	0	0	1824
Low-Density Trees	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	14	0	0	0	0	74	0	0	0	0	0	0	0	0	0	88
Lowland Deciduous	0	0	0	0	0	0	0	0	62	85	0	0	0	0	0	0	0	0	147
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	24
Mixed Upland Deciduous	0	134	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	141
Natural Mixed Pines	0	0	0	0	0	0	47	0	0	0	36	0	0	0	0	0	0	0	83
Oak	0	42	0	0	0	0	0	0	0	0	55	87	0	0	0	0	0	0	184
Red Pine	0	0	0	0	0	0	245	278	0	0	0	0	0	0	0	0	0	0	523
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Shrub	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Urban	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
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	0	0	0	0	5	0	0	0	0	0	0	5
Total	244	199	331	193	810	481	334	310	167	85	108	116	0	0	0	0	0	0	3376



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 132
Total Compartment Acres: 3,376

Commercial Harvest - 372
Harvests with Site Condition - 176
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
Jack Pine	100	0	0	0	0	0	0	0	0	100
Natural Mixed Pines	0	0	0	0	47	0	0	0	0	47
Oak	85	0	0	0	0	0	0	0	0	85
Red Pine	87	0	0	0	0	230	0	0	0	317
Total	272	0	0	0	47	230	0	0	0	548

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	548	51	0	0	0	39	69	0	0	706
Next Step	0	87	138	0	0	138	282	0	0	644
Total	548	138	138	0	0	176	350	0	0	1350



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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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Approved Treatments:

9	61132009-15-New	1.3	42110 - Planted Red Pine	Poletimber Well	63	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> cut one leave two row thinning</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> not a regen harvest</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
9	61132009-Cut	114.5	42110 - Planted Red Pine	Poletimber Well	63	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> thin stand to a target residual BA of 120 sqft per acre. Target the removal of smaller diameter red pine and mark to remove poor formed trees</p> <p><u>Specs:</u> and for overall spacing. cut all the remaining jack pine out of the stand.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> not a regen harvest</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
9	61132009-replant	60.3	42110 - Planted Red Pine	Poletimber Well	63	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> this was the lower stocked area of the stand so final harvesting now and replanting to red pine to break up the red pine age in the area.</p> <p><u>Specs:</u> South end has some cherry bruch and low stocking tree areas that we will incorporate into the replant area. site will need to be chip harvested if at all possible for follow up cult work.</p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> per policy, 80% free to grow red pine. some areas of lower stocking ok post planting however hoping for 80% of the site to be free to grow red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 3 /10/2020</p>											



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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
18	61132018-Cut	103.0	42110 - Planted Red Pine	Poletimber Well	60	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> thin stand to a target residual BA of 120 sqft per acre. Target the removal of smaller diameter red pine and mark to remove poor formed trees and for overall spacing. cut all the remaining jack pine out of the stand. two small pockets at SE end that are added from stand 41, remove jack pine and orange mark threw these areas.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> not a regen harvest</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>											
21	61132021-Cut	26.9	42110 - Planted Red Pine	Poletimber Well	59	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" and up. Try to get it chipped however if markets make chipping impossible use the spec to cut up tops and scatter in short sections under 3" diameters so the site can be trenched. final harvest, let set a year, then trench, then spray, then plant to red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> ~80% free to grow red pine. some isolated areas of poor stocking or open areas OK but shooting for good red pine here.</p> <p><u>Regen:</u></p> <p><u>Other</u> this treatment area will be treated alongside the larger clearcut and replant to the NE. LZ will likely need to be in this area and will have to fly into NE block.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 7 /23/2020</p>											
23	61132023-Cut	11.0	42110 - Planted Red Pine	Poletimber Well	59	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> lightly thin the stand. ~1/4-1/3 volume removal. target the removal of smaller diameter red pine and remove the rest of the jack pine. then thin rest of the stand by taking poor formed or high risk trees and for overall residual tree spacing.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> not a regen harvest</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>											
24	61132024-Monitor	68.8	330 - Low-Density Trees	Nonstocked	0		Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> regen check</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully stocked stand of red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/23/2018</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
33 61132033-Cut	46.6	42290 - Natural Mixed Pine	Poletimber Well	56	141-170	Harvest	Shelterwood	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> green tree mark stand, try to mark in pockets trees to save for seed and a little shade. leave enough to come back for after stand has regenerated. some pockets of nice larger pine, save some of this</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> any mix of overstory species post harvest will be ok. expect to push to mixed, pine, oak and red maple. probably half deciduous and half conifer.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
58 61132058-Spray	38.5	330 - Low-Density Trees	Nonstocked	0	Unspecified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> release spray site</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A fully stocked stand of red pine</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
70 61132070-Cut	26.5	4123 - Red Oak	Sawtimber Well	97	81-110	Harvest	Clearcut	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> final harvest. ok to save some or all pine and save some white oak as well for mast. can be painted out along edges or scattered throughout. expect to push to a deciduous, oak and pine mix. should jump off the stump pretty good as oak looks to be pretty healthy.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> mixed oak, pine and mixed deciduous ok post harvest</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
77 61132077-Cut	99.9	42220 - Natural Jack Pine	Poletimber Well	46	51-80	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> final harvest all trees over 4" dbh except save all white oak and white and red pine. OK to mark some red oak to save however i think the</p> <p><u>Specs:</u> best recruitment will be oak via stump sprouts. OK if it stays open to patchy. should be a fair amount of residual in the sub merchantable size class. Leave 1-2 islands for retention.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> mixed jack pine, red and white pine and mixed deciduous, expect mostly jack pine volunteers and oak.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 7 /23/2020</p>										
86 61132086-Cut	58.0	4125 - Black, N. Pin Oak	Sawtimber Poor	101	1-50	Harvest	Clearcut	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> take the top off now. ok to save some or all red pine as there isnt much here as well as all or some white oak. bulk of the stand has</p> <p><u>Specs:</u> regenerated so will be taking the top off via harvest to fully release understory regen. save as much regen as possible however areas that do get disturbed should fill back in.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> oak, pine and mixed deciduous. mixed now so expect nice mixed regen.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
88 61132088-Prep	50.5	310 - Herbaceous Openland	Nonstocked	0	Unspecified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Trench site</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully stocked stand of red pine.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment Acreage Proposed: 705.8

Report 4 – Site Conditions

Traverse City Mgt. Unit
Kelly Standerfer : Examiner

Compartment: 132
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		2I	4A	5C	3J	5E
58	50	2	6	Aspen			2	6	
24	0	0	24	Cedar				24	
49	48	0	2	Herbaceous Openland					2
1824	1796	1	27	Jack Pine			1	16	11
122	122	0	0	Low-Density Trees				0	
32	0	25	7	Lowland Aspen/Balsam Poplar			25	7	
88	7	59	23	Lowland Conifers			59	23	
147	40	12	95	Lowland Deciduous			12	95	
1	0	0	1	Lowland Shrub				1	
24	15	0	9	Lowland Spruce/Fir				9	
141	135	0	6	Mixed Upland Deciduous				6	
83	83	0	0	Natural Mixed Pines					
184	126	58	0	Oak		0	58		
522	343	158	21	Red Pine	158			17	4
1	1	0	0	Sand, Soil					
16	15	0	1	Upland Shrub				0	0
45	41	0	4	Urban				3	1
8	6	0	2	Water				2	
5	0	5	0	White Pine			5		
3,376	2,830	319	228	Total Forested Acres	158	0	161	210	17
	84%	9%	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	Available	4A: No Markets Available for these Forest Products	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Kelly Standerfer : Examiner

Compartment: 132
Year of Entry: 2022

2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: retention island for 61132009-replant.							
4	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	72	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Kelly Standerfer : Examiner

Compartment: 132
Year of Entry: 2022

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Kelly Standerfer : Examiner

Compartment: 132
Year of Entry: 2022

16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	75	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Kelly Standerfer : Examiner

Compartment: 132
 Year of Entry: 2022

22	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	2I: Survey needed	158	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey corners and survey needs are unknown at this time.							
35	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	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 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	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.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
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	110 - Low Intensity Urban	Nonstocked	0.8			No	Access site with scattered cherry.																																																				
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2	6229 - Mixed lowland shrub	Nonstocked	1.4		Immature	No																																																					
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4	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	9.9	78	141-170	N/A	Part of stand is Military Board Land. Creek bisects stand. tricky stand. few creeks that go below ground. ne end more spruce and cedar, some tag areas and some nice red maple log. think the amount of hydrology in the stand will prohibit treatments, hard to tell with snow but doesnt look doable.																																																				
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5	4139 - Aspen, Mixed Deciduous	Poletimber Well	7.1	40	81-110	N/A	Previous inventory had this as an unevenaged stand. Timber consists of red maple, aspen and a few red pine. bulk of stand is pretty young, some older trees present, looks kinda 2 aged. bulk of the stand is within the 175' natural river corridor so will likely never be managed. might be able to cut some south of king road																																																				
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8	42110 - Planted Red Pine	Poletimber Well	12.0	59	111-140	N/A	First thinning in 2008. Sale #052-04. pretty slow growing stuff, should hold 10 years good. not quite ready for a thin.																																		
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9	42110 - Planted Red Pine	Poletimber Well	159.6	63	141-170	N/A	Third row thinning was completed during winter and spring of 2005. King Road Red Pine Sale #041-02. ready for another thin. remove ~1/3 of the volume. ok to cut all red pine under 5" via spec to save some paint time, rest will likely need marked. cut all jack pine, there are a few pockets that were to small to map out.																																		
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11	3302 - Low Density Conifer Trees	Nonstocked	1.9		Unspecified	429 - Mixed Upland Conifers	probably make a good landing again. ok to cut out merchantable trees for surrounding timber sale or ok to push open again, will function as a nice little opening.																																		
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12	3205 - Mixed Upland Shrub	Nonstocked	4.4		Unspecified	No	long fingery opening with some thicker areas of trees and brush. east eare will be trenched and planted with red pine.																																		
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13	42220 - Natural Jack Pine	Sapling Poor	23.0	6	1-50	N/A	Military Board Land. Very old jack pine. A lot falling down. jack pine, aspen and red maple removed last yoe. mixed red and white pine remained post harvest. patchy, created a different stand for the thicker areas of this stand, this one will be managed for understory regeneration. stand boundary was not updated because of inaccurate looking treatment boundaries.																																		
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14	42120 - Planted Jack Pine	Sapling Well	17.6	13	Immature	N/A	looks to be more volunteer jack pine but says it was planted... either way it's young jack pine about 12 years old??scattered mature red pine as well																																		
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15	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	16.7	90	1-50	N/A	patchy, some J3, some J5, some aspen. all is influenced by the intermittent drain, will add site condition for BMP/water impact																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	42120 - Planted Jack Pine	Sapling Well	46.7	25	Immature	N/A	Stand was cut in the fall of 1993. CCC Jackpine Sale #007-92. Was seeded or planted in 1996.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		98	Sapling	4	25		
Black Cherry		2	Sapling	4			
17	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	6.7	51	111-140	N/A	Consumers lease land M-42. Expired in 2011. small pocket of red pine that needs thinned, some will fall within 175' natural river corridor, thin now with stand to south, likely take rows out of here, eventually push to big tree management/ natural stand characteristics due to river proximity.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		35	Pole	8	51		
Quaking Aspen		30	Pole	8	51		
White Pine		25	Pole/Sapling	7	61		
18	42110 - Planted Red Pine	Poletimber Well	98.0	60	141-170	N/A	First thinning in 2004. Over Here Red Pine #042-02-1. ready for another thin, approximately 1/4-1/3 volume removal.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		98	Pole/Sapling	8	60		
Jack Pine		2	Pole	8			
Sub-Canopy Species		Density	Avg. Height	Size			
Red Pine		Low	< 5 feet	Sapling			
Jack Pine		Low	Variable	Sapling			
19	122 - Road/Parking Lot	Nonstocked	7.3		Unspecified	No	county road and road ROW
20	3302 - Low Density Conifer Trees	Nonstocked	1.0			No	
Sub-Canopy Species		Density	Avg. Height	Size			
Jack Pine		Medium		Seeding			
21	42110 - Planted Red Pine	Poletimber Well	66.8	59	81-110	N/A	Thinning completed 01/2014. Sale # 61-088-12. should be ready for a light thin next YOE. not ready yet
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		100	Pole/Sap/Log	8	59		
22	42120 - Planted Jack Pine	Sapling Well	17.0	14	Immature	N/A	some fingers of red pine run throughout stand. south finger of stand more open, north half is pretty thick. north 2/3 of stand was planted or seeded, stand filling in good.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		75	Sapling	2	14		
Red Pine		25	Pole	7	56		
23	42110 - Planted Red Pine	Poletimber Well	11.0	59	141-170	N/A	Thinned in 2005. Sale #52-04. stand could hold if needed but thin now and remove rest of the jack pine and thin red pine from below and take out high risk and forks.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		90	Pole	8	59		
Jack Pine		10	Pole	8			
Sub-Canopy Species		Density	Avg. Height	Size			
Red Pine		Low	Variable	Sapling			
24	330 - Low-Density Trees	Nonstocked	68.8	0		No	there was approximately 10 percent mortality and they were 90 percent free to grow.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
25	3205 - Mixed Upland Shrub	Nonstocked	4.6			No	some is forested but bulk is brushy cherry																																																		
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26	42110 - Planted Red Pine	Poletimber Well	6.9	56	111-140	N/A																																																			
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27	42110 - Planted Red Pine	Poletimber Well	10.5	56	111-140	N/A	Most of stand is Consumers Lease Land, M-38 till 2013. thinned last YOE, should be ready for another thin next YOE. stand looks good n healthy																																																		
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28	42210 - Natural Red Pine	Sawtimber Medium	27.9	56	81-110	N/A	Military Board Land. jack pine and aspen and red maple cut out last YOE. mixed red and white pine remained post harvest. patchy, some over 200 ba and some scattered trees. heavy browse, look to maybe cut next yoe.																																																		
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29	6113 - Lowland Maple	Poletimber Medium	27.6	80	1-50	N/A	some flooded water opening and some nicer mixed lowland. most is not manageable ground but soem edges may be able to be treated with future harvest in adjacent stands, heavy beaver activity in areas.																																																		
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30	6113 - Lowland Maple	Poletimber Well	18.2	86	111-140	N/A	Intermittant streams run through stand. Aspen is found along the creek bed edges where it is slightly more upland. some is pretty nice and some more E5ish.																																																		
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31	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	41.2	16	Immature	N/A	stand was cut in 2005ish and left to regenerate naturally, filling in nicely to mostly jack and oak.																																																		
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32	42120 - Planted Jack Pine	Sapling Well	103.1	13	Immature	N/A	some planted some natural. mostly fully stocked jack pine stand.. in the high fire risk stage, lots of limbs to the ground.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
33	42290 - Natural Mixed Pine	Poletimber Well	46.6	56	141-170	N/A	Mixed stand with some pockets heavy to red pine/white pine. Other areas heavy to hardwoods with a white pine understory. A small component of oak saplings is coming in. South half of stand is Military Board Land. some area with large pine	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		5	Pole/Log	8		Red Maple		
Paper Birch		2	Pole	8		Medium		
White Pine		43	Pole/Log	8		Variable		
Red Pine		47	Log/Pole	13	56	High		
Jack Pine		3	Pole	8		Variable		
						Sapling		
34	500 - Water	Nonstocked	6.0			No		
35	42220 - Natural Jack Pine	Poletimber Medium	13.5	26	51-80	N/A		
Canopy Species		% Cover	Size Class	DBH	Age			
Red Oak		2	Log	18				
Jack Pine		94	Pole/Sapling	6	26			
Black Cherry		4	Sapling	4				
37	42120 - Planted Jack Pine	Sapling Well	71.5	26	Immature	N/A	A timber sale was completed in 1994. Stand was roller chopped and seeded with jack pine in 1994 and northeast part of stand was planted to red pine in 1995. So much jack pine was coming in the area that was planted to red pine I couldn't distinguish the difference so combined stands.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		4	Sapling	3				
Jack Pine		94	Sapling	3	26			
Black Cherry		2	Sapling	3				
39	6112 - Lowland Aspen	Poletimber Well	32.4	68	81-110	N/A	Military Board Land. not sure how much of the stand is manageable. likely dip into stand next YOY when we take the top off stand 28. some will likely be to wet and sparsely stocked for management but some should be treatable.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		50	Pole	8	68	White Pine		
Quaking Aspen		43	Pole/Log	8	41	Medium		
Black Ash		7	Pole	8		Variable		
						High		
						Sapling		
						Variable		
						Tall Shrub		
40	6127 - Lowland Pine	Sapling Medium	14.1	27	Immature	N/A	Stand was cut in 1993 - Birch Run Sale #010-92. Larger spruce with white pine coming back in.	
Canopy Species		% Cover	Size Class	DBH	Age			
Black Spruce		3	Pole/Sapling	6				
White Pine		65	Sapling	3	27			
Black Cherry		7	Sapling	2				
Red Maple		25	Sapling	3	27			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
41	6127 - Lowland Pine	Sawtimber Well	64.4	76	141-170	N/A	mostly lowland but some upland present too. mixed big red n white pine over smaller diameter white pine, some spruce pockets as well... looks to be manageable ground, maybe look to treat in 10 to 20 years with seed tree harvest?																																										
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42	42110 - Planted Red Pine	Poletimber Well	110.0	56	111-140	N/A																																											
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44	6113 - Lowland Maple	Poletimber Well	25.9	86	Unspecified	N/A	Military Board Land. Stand is somewhat wet. Red maple dominate the stand with scattered large red and white pines. A fair amount of black spruce has developed in the stand also.																																										
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45	3302 - Low Density Conifer Trees	Nonstocked	9.5	0	Unspecified	4222 - Natural Jack Pine	stand in process of filling in... looks liek alot of jack pine coming so should be pretty full stocked stand eventually, calling U type for now but will have a forested objective.																																										
46	42290 - Natural Mixed Pine	Sawtimber Poor	36.1	94	51-80	N/A	Military Board Land. cut all but red and white pine last yoe, some thick, some scattered, sheltering along red maple and white pine, look to maybe treat next yoe, some bracken ferns and some leatherleaf ground. east half more spruce pine mix, saved smaller spruce, filling in																																										
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47	110 - Low Intensity Urban	Nonstocked	0.9			No																																											
48	42220 - Natural Jack Pine	Poletimber Medium	12.9	41	81-110	N/A	Military Board Land. Stand is semi open in areas other places it is well stocked. Lots of jack pine most places. Cherry is found in more open areas. SW end of stand more mature jack...probably manage stand with stand to south due to it's small size																																										
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49	42220 - Natural Jack Pine	Poletimber Well	114.5	36	1-50	N/A	Military Board Land. Harvested in 1983, the East half of the stand was not clean cut. There is residual jack pine remaining, somewhat older than the main stand.																													
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50	42200 - Natural White Pine	Sawtimber Well	4.8	107	171-200	N/A	Military Board Land. Very nice white pine logs are developing. some red pine mixed in as well... thin stand from below.. taking poor formed and understory pine. ok to spec red maple, jack and trees under 6" to save marking time. leatherleaf in much of the stand so looks to have some wet areas. stand is in pretty good shape so decided to hold stand for now. will treat when adjacent stand is cut, likely next YOE.																													
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51	42220 - Natural Jack Pine	Poletimber Well	94.0	46	1-50	N/A	Military Board Land. Cut in 1974. high density, doesnt look to be merchantable for another 10-20 years, small diameters and short, some is a bit nice but not quite ready for treatment																													
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52	6126 - Lowland Jack Pine	Sapling Medium	9.0	42		N/A	Military Board Land. leatherleaf present here, wetter than the bulk of the surrounding stand, likely unable to trench and plant																													
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53	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	10.5	36	1-50	N/A	soem open some jack pine, calling a J5, J3 converting to J5 J6 in areas.																													
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55	42220 - Natural Jack Pine	Sapling Well	95.0	36		N/A	Military Board Land. Some pockets of red and white pine were left as residual. some areas of leatherleaf @ SW end of stand around stand 52, some might need to be naturally regenerated.																													
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56	42120 - Planted Jack Pine	Sapling Well	62.9	14	Immature	N/A	Cearcut in winter of 2005. Jack Pine Airstrip Sale #044-02. Planted in 2007. filling in nicely																													
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58	330 - Low-Density Trees	Nonstocked	38.4	0	Unspecified	4211 - Planted Red Pine	few scattered red pine left, competition looks pretty minimal. north of king road was left for retention, falling over jack pine. Military Board Land. there was approximately 10 percent mortality and they were 90 percent free to grow. - 3 year regen survey shows 25% mortality, 76 FTG for a final TPA 690. Primary competition is cherry with some jack pine.																												
59	42220 - Natural Jack Pine	Poletimber Poor	46.6	26	1-50	N/A	pockets of jack pine intermixed with grass opening.. called U type last YOE.. calling it a J4ish open stand now as there appears to be over 25% in jack pine pockets. let fill in naturally or ok to try to keep it more open in wildlife so chooses.																												
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60	42220 - Natural Jack Pine	Sapling Well	419.4	33	Immature	N/A	Military Board Land. A 600 acre forest fire ran N-NE'ly about a mile on 6/18/87. Some scattered residual timber remains. Jack pine has regenerated naturally. Part of the stand was treated with a HydroAxe by the Military in an attempt to discourage Kirtland's Warbler Habitat from developing. It didn't work. Some areas of the stand are on the lower end of well-stocked and there are some semi-open pockets. Warblers do occupy the stand and Military use of this area is now limited to non-nesting months.																												
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61	6120 - Lowland Cedar	Poletimber Well	23.5	105	Unspecified	N/A	land locked and all within natural river buffer... mix of cedar maple and aspen, remote call																												
62	42220 - Natural Jack Pine	Sapling Medium	62.4	31	Immature	N/A	Jack Pine Corner #040-02. Stand was cut in winter of 2004 with a spec to leave everything 4" and under and no cutting of oak, cherry or other pine.																												
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64	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	75.0	5	Immature	N/A	stand filling in to nice jack pine and oak mix. some mature oak scattered throughout.																												
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66	710 - Sand, Soil	Nonstocked	1.2			No																													
68	3205 - Mixed Upland Shrub	Nonstocked	3.7		Unspecified	No	open with pockets of jack pine.																												
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69	42220 - Natural Jack Pine	Poletimber Well	11.2	41		N/A	Military Board Land. There was a fire here.																																																							
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70	4123 - Red Oak	Sawtimber Well	26.5	97	81-110	N/A	Military Board Land. Radio Hill Oak Sale 092-04. Completed 11/06. This is Part of stand 84 that was not treated. bulk of stand is on a decent hill. few aspen throughout. could final harvest except save some or all pine, not much here.																																																							
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71	42220 - Natural Jack Pine	Sapling Well	89.1	16	Immature	N/A	Military Board Land. King Road Jack Sale #038-02. Cut in the winter of 2003-04. All 4" and under timber was left. A lot of jack pine seedlings in stand. I found no record of any seeding or planting so it must be natural. manage for understory jack that started ~2004 so changed stand age																																																							
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72	6122 - Black Spruce	Poletimber Well	24.0	78	141-170	N/A	some might be treatable however much of the stand will need to be taken out due to bmp concerns, check with fisheries for set back requirements. se end more jack, main body more spruce. looks like we may need survey for west end if cut																																																							
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73	6113 - Lowland Maple	Poletimber Well	62.1	78	141-170	N/A	Part of stand is Military Board Land. Creek bisects stand. tricky stand. few creeks that go below ground. ne end more spruce and cedar, some tag areas and some nice red maple log. think the amount of hydrology in the stand will prohibit treatments, hard to tell with snow but doesnt look doable.																																																							
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75	110 - Low Intensity Urban	Nonstocked	24.8			No	Sharon Refuge Truck Trail/Howe Road																																																							



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76	4126 - White, Black, N. Pin Oak	Poletimber Well	28.9	97	51-80	N/A	look like they cut out short lived, sheltering along oak n pine, will hold 10 good, maybe seed tree next yoe. Military Board Land. Sharon Truck Oak Sale #64-04 - completed 5/07. TCR isin Compt. 133.																																					
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77	42220 - Natural Jack Pine	Poletimber Well	347.1	46	51-80	N/A	originated from fire? looks younger than 50 or stand was way to thick for good growth, doesnt look merchantable for the most part, maybe cut next YOE. north end a bit nicer, some areas seem to be older, most is smaller 2-3 sticks stuff. could cut now if needed or will should fine 10																																					
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78	4126 - White, Black, N. Pin Oak	Sawtimber Poor	29.4	101	1-50	N/A	stand filling in nicely, take top off in 10 years maybe. this stand is part of the Truck Trail Jack Pine Sale 039-02. All jack pine over 4 DBH were cut. No oak, cherry or other pine were cut. This part of the sale has more large oak that were left.																																					
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79	42220 - Natural Jack Pine	Sapling Medium	57.3	31	Immature	N/A	This stand is part of the Truck Trail Jack Pine Sale 039-02. All jack pine over 4 DBH were cut. No oak, cherry or other pine were cut. some open some thick																																					
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80	4131 - Aspen, Oak	Sapling Well	45.4	34	51-80	N/A	Military Board Land. Stand was clearcut in 1986. Sale #024-84-01. nice mix of aspen, maple and oak.																																					
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81	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	59.2	6	Immature	N/A	clearcut last YOE, some white oak left after harvest, stand is in process of regenerating, looks like it will fill in to a fully stocked jack pine, oak and maple stand.																																					
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82	3205 - Mixed Upland Shrub	Nonstocked	3.4		Unspecified	No	open area with some pockets of jack pine as well																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
84	4123 - Red Oak	Sapling Medium	41.7	6	Immature	N/A	Filling in pretty good... expect the bulk of the stand to be fully stocked, might be a few lighter pockets but overall looks good. Military Board Land. Radio Hill Oak Sale 092-04. Completed 11 of 2006. Unit 2 of Quercus Maximus, 616711601, cut 32017. Cut all trees 2 except red and white pine. Oak salvage or pre-salvage due to oak decline and heavy gypsy moth defoliation.																																				
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85	42220 - Natural Jack Pine	Poletimber Well	25.9	51	51-80	N/A	Military Board Land. Stand regenerated from a fire incident. could cut or hold as needed, leaning towards holding as diameters are pretty small yet, tank trail in stand?																																				
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86	4125 - Black, N. Pin Oak	Sawtimber Poor	57.9	101	1-50	N/A	some oak mortality, stand has filled in nicely. take top regen off now. some O3 and some O7 O8. not the greatest oak but ok quality. final harvest but save regen. could save all pine as there isn't much here. probably 25ish % of the stand is overstory and 75% regen, should be a fully stocked oak and jack pine regen stand post harvest and open areas will fill in with a similar species mix. Maybe save all red and white pine as there isnt much here. Sale 058-04 was harvested in the winter of 04-05. All species 4" were cut except oak.																																				
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87	4130 - Aspen	Sapling Well	5.9	31	1-50	N/A	Military Board Land. north finger added to this stand as it's mostly aspen under O5-O7 scattered oak, manage for aspen here.																																				
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88	310 - Herbaceous Openland	Nonstocked	49.3	0	Unspecified	No	2018 Stand was final harvest. Timber sale was Wild Wasp Red Pine (61-140-17). -stand was trenched in 2019. 2016 Comments - Split this stand where red pine was the heaviest. North part of stand was split off that is to planted to jack pine. Sale# 61-082-12. 2010 Comments - South half of stand is Military Board Land. The red pine that is in this stand has been planted. Mainly concentrated in the central portion of stand. Take out jack and leave red pine. Replant North half.																																				
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89	42220 - Natural Jack Pine	Poletimber Well	6.9	73	81-110	N/A	This stand was left as retention... and now could be a bud worm risk... think its wise to cut this stand with young Jack pine near by and young red pine. forest health concern.																																				
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93	122 - Road/Parking Lot	Nonstocked	11.5		Unspecified	No																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
95	6113 - Lowland Maple	Poletimber Well	13.3	86	111-140	N/A	Intermittant streams run through stand. Aspen is found along the creek bed edges where it is slightly more upland. some is pretty nice and some more E5ish.																																														
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