



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45106

Entry Year 2023

Acreage: 1,900

County Mackinac

Management Area: Carp River Red Pine

Stand Examiner: Kenny Fanelli

Legal Description:

T43 N R06W, Sections 13, 14, 15 Moran Township.

Identified Planning Goals:

This compartment is located approximately 4 1/2 miles south of Trout Lake. It is comprised of a variety of both upland and lowland stands. The east half is comprised mostly of upland red pine, aspen, and unforested openings, some of which are filling in with trees. Much of the remaining mature red pine has been thinned in the last 10 years and all of the mature red pine is 85 years old or more. Treatments over the next 10 years will consist of harvesting the remaining mature pine, site preparation, and replanting. The western half is mostly lowland spruce, fir, tamarack, lowland brush, bogs and some upland ridges of aspen. The Carp River is designated as a wild and scenic in the stretch downstream on the Hiawatha National Forest. Stands along the river are to be managed to promote a larger component of conifer species to discourage beaver activities. Buffer management zones will be maintained along both the Carp River and Ozark Creek following the Best Management Practices guidelines and Fisheries recommendations

Soil and topography:

The terrain is level to rolling with steep banks to the river and creek drainages. The compartment is higher ground on the east side and grades to lower ground on the west side. The higher ground soils are mostly Wallace Sand with Paquin Sand, and Paquin-Finch complex on the ridges in the lowland areas. The transition areas have Spot-Finch Complex. The lowland areas mostly have the Markey- Spot-Finch Complex with some higher transition areas to the Paquin Sand and Wallace Sand. The other lowland soil types are Markey and Carbondale Muck, Finch-Dawson-Pullup Complex and the Dinkey Muck in the Carp River and Ozark Creek drainages.

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

The north, west and south sections surrounding the compartment are in state ownership. The sections to the east and southeast are in federal ownership on the Hiawatha National Forest. A private 40 abuts the northeast side of Section 13 with the rest of Section 7 being in federal ownership.

Unique Natural Features:

Potential for raptors and Great Blue Herons to nest in the compartment exists and care will be taken to check stands for nests. Stands to the north in compartment 107 were identified as Rich Conifer Swamp community. The Rich Conifer Swamp community type continues into stands 2 and 3. There is a potential for some rare plant and animal species to inhabit the compartment.

Archeological, Historical, and Cultural Features:

None.

Special Management Designations or Considerations:

The Carp River has undergone stream bank erosion projects to reduce the amount of siltation into the river from the sandbanks. Potential for raptors to nest in the compartment exists and care will be taken to check stands for nests with buffers placed when necessary.

Watershed and Fisheries Considerations:

This compartment contains Carp River and Ozark Creek, which are both cold transitional streams. A 300-foot no-clearcut buffer should be maintained adjacent to Ozark Creek and Carp River. A 50-foot no-cut buffer should be maintained adjacent to the Carp River (okay to selection cut to within 50' of river).

Wildlife Habitat Considerations:

This compartment is part of the Carp River Red Pine Management Area where featured wildlife species include black burnian warbler, red-shouldered hawk, ruffed grouse, and snowshoe hare. It contains a number of cover types ranging from lowland hardwood and conifers to red pine, some aspen, and an opening that is reverting toward a forested stand. Red pine plantations cover much of the eastern half on sandy soils. These are part of a larger red pine management zone

in this area. The Carp River is also located on the east side, and a northern wet meadow natural community is located along it in the northern part of the compartment. The central part contains aspen, fir, and lowland types. Further west, lowland conifer stands are dominated by black spruce, tamarack, cedar, and shrubs. A rich conifer swamp natural community extends into the compartment here, although most of it occurs to the north.

Wildlife objectives in the compartment include maintaining a diversity of age classes in early successional deciduous forest as well as conifer-dominated stands, maintaining the riverine and riparian habitats, protecting the integrity of other wetland habitats including natural community types, and providing some opening habitat. Aspen stands in the central portion are already providing varying ages and habitat to ruffed grouse and snowshoe hare, and no new treatment is proposed in them. A recent treatment in a lowland spruce stand and planned treatment in others will offer young conifer cover to snowshoe hare. Riparian habitats and natural community types will be left during treatments. Some red pine stands will be treated, which will offer temporary openings that may be used by species like sandhill cranes and possibly sharp-tailed grouse. Opening habitat in this pine-dominated area is expected to mainly result from forest management practices, such as rotational cuts.

Mineral Resource and Development Concerns and/or Restrictions

Sections 13-15, T43N-R6W, Mackinac County

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. The Trout Lake Sand Pit is just over two miles to the north and is currently leased by the Chippewa County Road Commission. Payne & Dolan operate a quarry just under two miles to the northeast. Engadine limestone is at or near the surface in this area. Potential for sand & gravel and limestone within the compartment is good on the uplands. Wetlands and a shallow water table could make surface mining more costly. The State does not own all the mineral rights within the compartment and may or may not own the rights to the non-metallic minerals depending on deed language. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

The compartment has good vehicle access with the JT Camp Road deteriorating to undriveable most of the year in the west portion of Section 14. The Carp River Truck Trail provides good access. The access into Section 13 is the Huckleberry Lake Road from the north and the Ozark Creek Road to the east. The bridge over Ozark Creek is an 8 ton limit bridge, which will not support any traffic larger than a pickup. The Ozark Creek Road to the east on the Federal lands is in very poor shape and undriveable most of the time. Any new timber sale roads will be blocked or planted after management activities occur.

Survey Needs:

None this year of entry.

Recreational Facilities and Opportunities:

The Carp River Truck Trail is used as a snowmobile trail and part of the ORV trail runs on it. The ORV (MCCCT) trail runs through the stands in the compartment. Clearcut with reserves treatment areas with ORV trails running through the area will at least have the bottom eight feet left of the trees with trail markers on them. The compartment is heavily used for all types of recreational activities including motorized vehicle use, fishing, hunting, trapping and nature viewing.

Fire Protection:

The eastern half of the compartment has a potential for a moderate to higher intensity fire. The Thunder Alley Fire burned through stand 26 in 1999 from the north. The west portion has lower fire intensity potential. The problem of ground fire does exist in this portion of the compartment.

Additional Compartment Information:

None.

The following reports from the Inventory are attached:

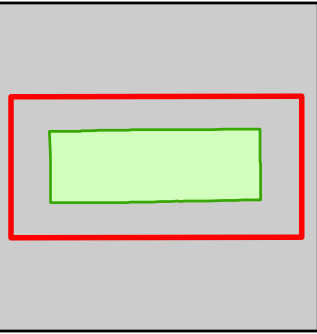
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

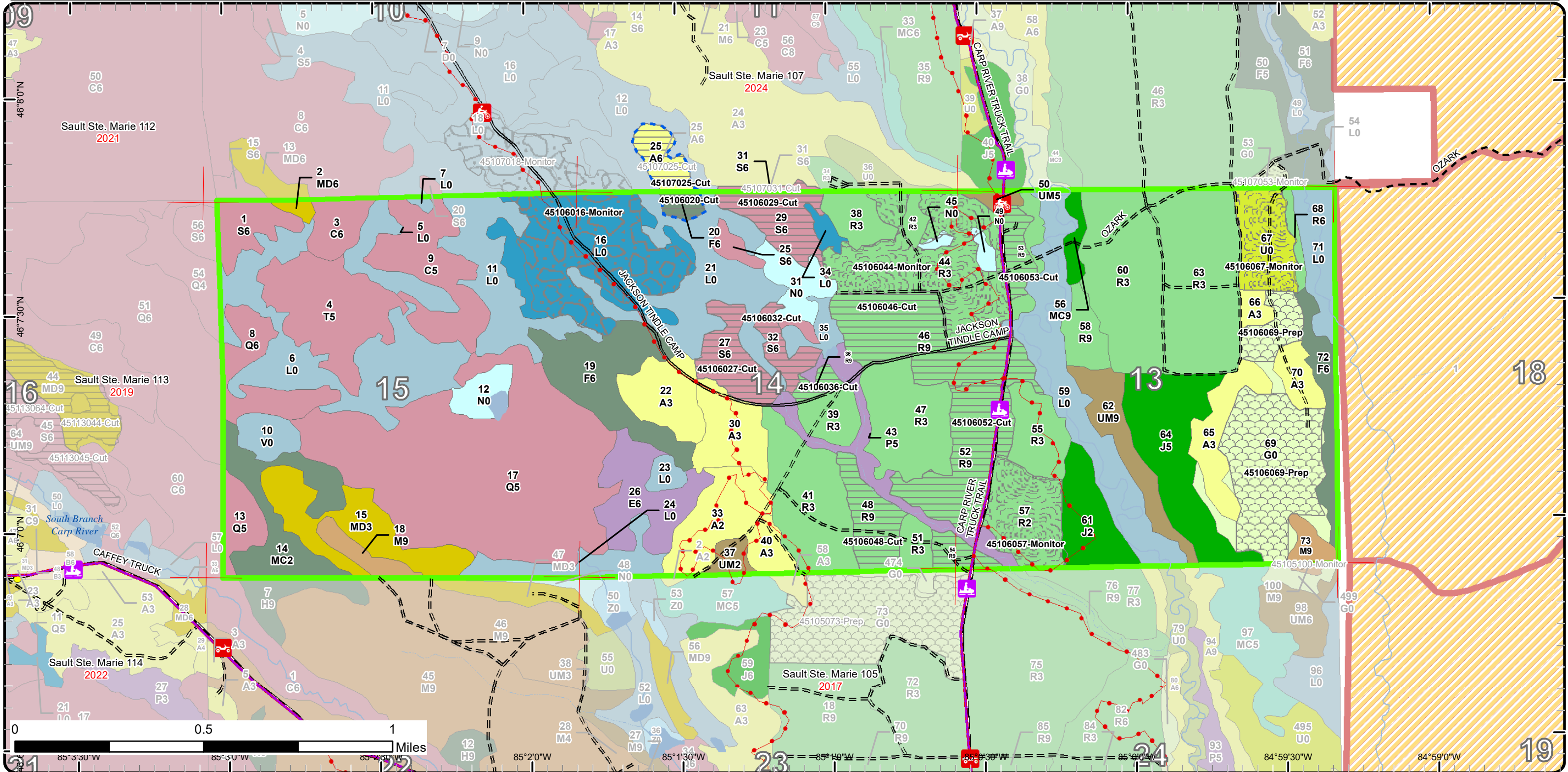
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 106
 T43N, R06W, Sec. 13-15
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Carp River Red Pine
 YOE: 2023
 Acres: 1899.7 GIS Calculated
 Examiner: Kenny Fanelli
 Map Revised: 1/31/2022
 Map Phase: Post Review

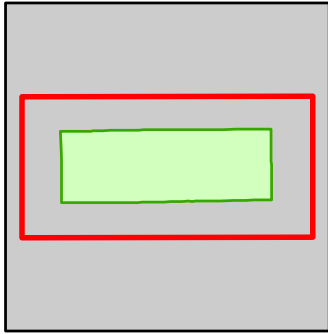


- Miris Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Motorcycle Trails (DNR License)
- ORV Routes
- Snowmobile Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Regeneration Survey
- Monitoring
- Site Prep
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

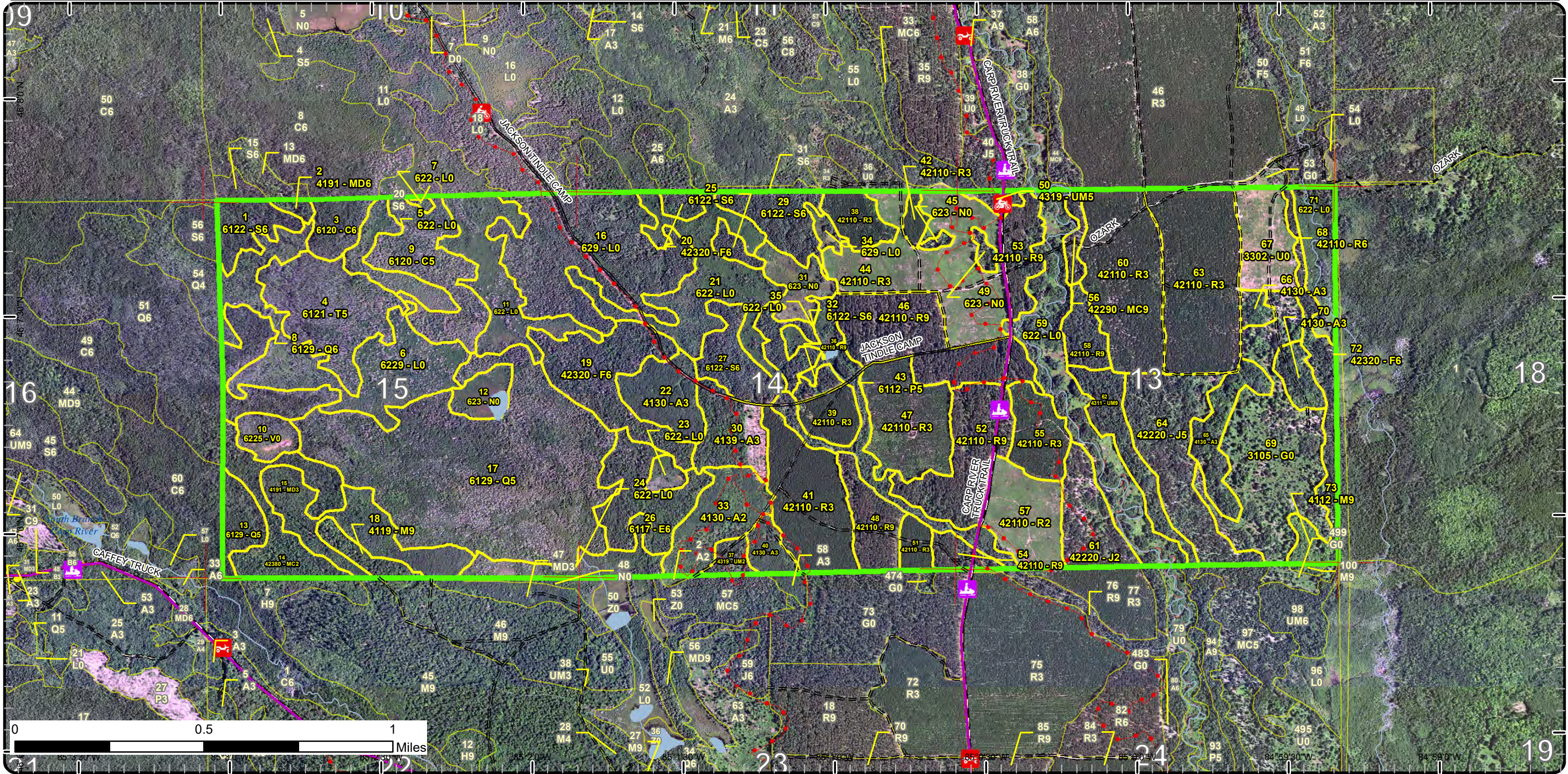


Stand Boundary Map

Compartment: 106
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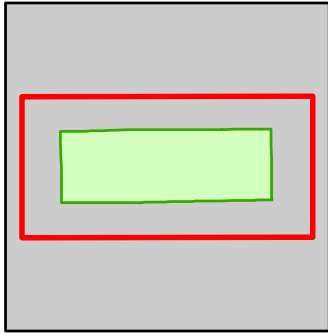


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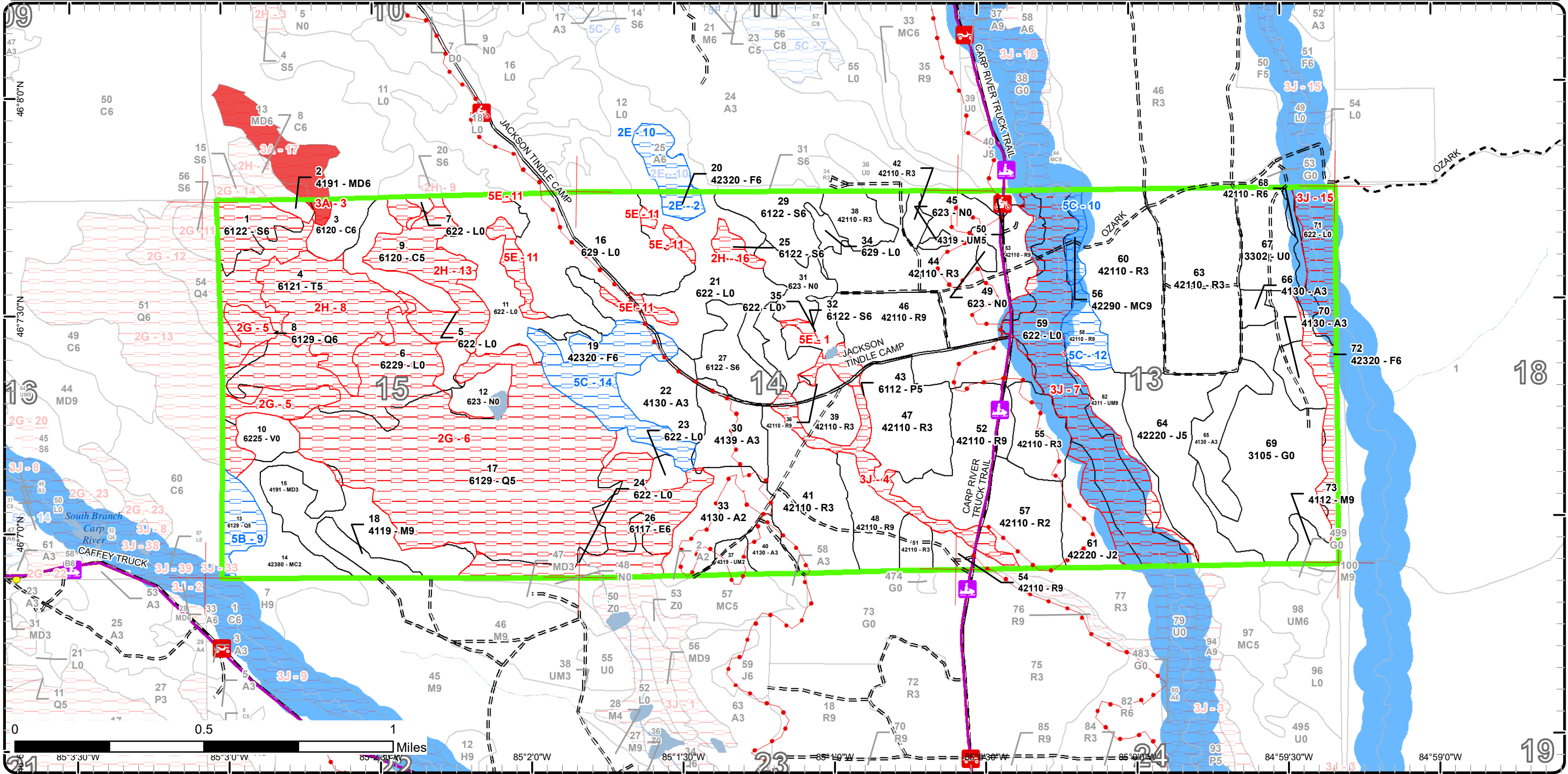


Special Conservation Areas

Compartment: 106
 T43N, R06W, Sec. 13-15
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Carp River Red Pine
 YOE: 2023
 Acres: 1899.7 GIS Calculated
 Examiner: Kenny Fanelli
 Map Revised: 1/31/2022
 Map Phase: Post Review



- Miris Corners
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- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- 2E: Road needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	59	29	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119
Bog	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Cedar	0	0	0	0	0	0	0	0	0	0	40	0	0	13	0	0	0	0	53
Herbaceous Openland	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Jack Pine	0	0	0	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	75
Low-Density Trees	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	26
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	183	24	13	0	0	0	0	0	220
Lowland Deciduous	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	33
Lowland Shrub	388	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	388
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	58	16	0	0	0	0	0	0	74
Marsh	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Mixed Upland Deciduous	0	0	0	0	38	0	0	0	0	0	0	3	0	0	0	0	0	0	41
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	7	16
Red Pine	0	0	138	225	0	0	0	0	0	157	0	0	0	0	0	0	0	0	519
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	49	0	0	0	0	0	49
Upland Conifers	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Upland Mixed Forest	0	6	0	0	4	0	0	23	0	0	0	0	0	0	0	0	0	0	33
Upland Spruce/Fir	0	0	0	0	0	0	0	43	0	0	5	0	0	0	0	0	0	18	66
Total	535	65	167	257	152	0	33	66	0	189	286	52	62	13	0	0	0	25	1898



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 106
Total Compartment Acres: 1,900

Commercial Harvest - 185
Harvests with Site Condition - 5
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 Spruce/Fir	51	0	0	0	0	0	0	0	0	51
Red Pine	134	0	0	0	0	0	0	0	0	134
Upland Spruce/Fir	5	0	0	0	0	0	0	0	0	5
Total	190	0	0	0	0	0	0	0	0	190

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	190	70	0	0	0	0	194	0	0	454
Next Step	0	339	205	0	134	758	535	0	0	1971
Total	190	409	205	0	134	758	729	0	0	2425



Stand Name	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:

16	45106016-Monitor	69.7	629 - Mixed non-forested wetland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6124 - Lowland Spruce-Fir	Even-Aged	No
<p><u>Prescription</u> Monitor regeneration to meet stocking standards. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> balsam fir, black spruce, white spruce, cedar, red maple, aspen, balsam poplar, and birch. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											

20	45106020-Cut	4.7	42320 - Upland Spruce	Poetimber Well	90		Harvest	Clearcut	42330 - Upland Fir	Even-Aged	No
<p><u>Prescription</u> Clear cut all deciduous species which are 2" or greater at DBH and all conifer species which are 4" or greater at DBH. Winter harvest only. A road will need to be frozen in from stand 29 in order to access. There will be no retention in this stand due to size. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked fir, spruce, birch, maple, aspen, and cedar. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Road Needed <u>Proposed Start Date:</u> 10/1 /2022</p>											

27	45106027-Cut	20.2	6122 - Black Spruce	Poetimber Well	97		Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Clear cut all deciduous trees 2" and up and all conifer trees 4" and up. Create a representative retention pocket equal to 3-10% in the stand. <u>Specs:</u> Harvest under frozen conditions. Sale acreage may vary from original prescription due to wet ground conditions. Leave most white pine. Create brush piles during normal processing operations if possible for hare. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked spruce, fir, white pine, aspen, and birch. <u>Regen:</u> <u>Other</u> Exclude interior wet areas. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
29	45106029-Cut	20.8	6122 - Black Spruce	Poletimber Well	97	Unspecified	Harvest	Clearcut with Retention	6124 - Lowland Spruce-Fir	Even-Aged	No
<p><u>Prescription</u> Clear cut all deciduous trees 2" and up and all conifer trees 4" and up. Create a retention pocket equal to 3-10% of the stand acreage.</p> <p><u>Specs:</u> Harvest under frozen conditions. Sale acreage may vary from original prescription due to wet ground conditions. Leave most white pine. Create brush piles during normal processing operations if possible for hare.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to fully stocked spruce, fir, aspen, birch, bam, and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Harvest along with stand 31 in compartment 107.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
32	45106032-Cut	9.9	6122 - Black Spruce	Poletimber Well	93		Harvest	Clearcut with Retention	6124 - Lowland Spruce-Fir	Even-Aged	No
<p><u>Prescription</u> Clear cut all deciduous trees 2" and up and all conifer trees 4" and up. Retention will be in the finger off the north east side of the stand.</p> <p><u>Specs:</u> Harvest under frozen conditions. Sale acreage may vary from original prescription due to wet ground conditions. Create brush piles during normal processing operations if possible for hare.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to fully stocked spruce, fir, aspen, birch, and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention is already cut out of the treatment line and site conditioned.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
36	45106036-Cut	4.4	42110 - Planted Red Pine	Sawtimber Well	85	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees which are 2" and up at DBH. No retention due to small acreage.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Burn, Slash; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Pesticide, Skidder -</p> <p><u>Treatments:</u> Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial - S</p> <p><u>Acceptable</u> Moderate to fully stocked 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 /2022</p>											
44	45106044-Monitor	69.3	42110 - Planted Red Pine	Sapling Well	10	Immature	Monitoring	Herbicide Use	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Release</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> 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> 12/12/2016</p>											



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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46	45106046-Cut	51.9	42110 - Planted Red Pine	Sawtimber Well	84	111- 140	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
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Prescription Cut all trees 2" and up. Retain 3-10% of the stand outside of the red line. Include specs to protect the motorcycle trail and orv route.
Specs:

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

Acceptable Fully stocked red pine.
Regen:

Other Include all proper trail specs. Cut all stumps within 5' of the trail flush with the ground.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

48	45106048-Cut	19.6	42110 - Planted Red Pine	Sawtimber Well	85	111- 140	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
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Prescription Clear cut all trees 2" and up. Place retention along the creek to the north of the stand.
Specs:

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

Acceptable Fully stocked planted red pine.
Regen:

Other Green up requirements should be waived due to the size of the red pine in this stand. Delaying treatment could lead to economic loss.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

52	45106052-Cut	40.4	42110 - Planted Red Pine	Sawtimber Well	85	111- 140	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
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Prescription Cut all trees 2" and up. Retain 3-10% of the stand outside of the red line. Include specs to protect the motorcycle trail and orv route.
Specs:

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

Acceptable Fully stocked planted red pine.
Regen:

Other Include all proper trail specs. Cut all stumps within 5' of the trail flush with the ground.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

53	45106053-Cut	10.2	42110 - Planted Red Pine	Sawtimber Well	85	111- 140	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
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Prescription Cut all trees 2" and up. Maintain a 300' buffer along the Carp River. The buffer will serve as retention.
Specs:

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

Acceptable Fully stocked red pine.
Regen:

Other Carp River buffer is already cut out of the treatment line and site conditioned.
Comment: Include all proper trail specs. Cut all stumps within 5' of the trail flush with the ground.

Site Condition

Proposed Start Date: 10/1 /2022



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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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54	45106054-Cut	7.9	42110 - Planted Red Pine	Sawtimber Well	85	141- 170	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
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Prescription Cut all trees 2" and up. Leave retention along the creek to the north of the stand.

Specs:

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

Acceptable Fully stocked planted red pine.

Regen:

Other Include all proper trail specs. Cut all stumps within 5' of the trail flush with the ground. Green up requirements should be waived due to the
Comment: size of the red pine in this stand. Delaying treatment could lead to economic loss.

Site Condition

Proposed Start Date: 10/1 /2022

57	45106057-Monitor	30.7	42110 - Planted Red Pine	Sapling Medium	10	Immatu re	Monitoring	Herbicide Use	42110 - Planted Red Pine	Even-Aged	No
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Prescription

Specs:

Next Step Pesticide, Other - Specify

Treatments:

Acceptable Red Pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 12/12/2016

67	45106067-Monitor	24.2	3302 - Low Density Conifer Trees	Nonstocked			Monitoring	Herbicide Use	4211 - Planted Red Pine	Even-Aged	No
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Prescription Monitor for release needs or for RHPSF and whether any spraying is needed.

Specs:

Next Step Pesticide, Other - Specify

Treatments:

Acceptable red pine, fully stocked.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 1 /6 /2017

69	45106069-Prep	70.2	3105 - Mixed Upland Herbaceous	Nonstocked		Immatu re	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	No
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Prescription Roller chop for site prep

Specs:

Next Step Pesticide, Skidder - Release; Pesticide, Aerial - Release; Monitoring, Artificial Regen(3yr); Monitoring, Herbicide Use; SitePrep,
Treatments: Trenching; Pesticide, Skidder - Site Prep; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitorin

Acceptable Fully stocked planted red pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/6 /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
25 45107025-Cut	11.2	4134 - Aspen, Spruce/Fir	Poletimber Well	95		Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves following the retention guideline. Retain patch within the treatment area for retention and leave conifer 4" and smaller</p> <p><u>Specs:</u> on the site. Some paper birch and white pine should be retained for seed trees and future snags.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Old next step comments: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.</p> <p><u>Site Condition</u> Road Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
31 45107031-Cut	2.9	6122 - Black Spruce	Poletimber Well	97		Harvest	Clearcut	6124 - Lowland Spruce-Fir	Even-Aged	No
<p><u>Prescription</u> Clear cut all deciduous trees 2" and up and all conifer trees 4" and up. No retention in this stand due to size. Harvest under frozen</p> <p><u>Specs:</u> conditions.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate to fully stocked spruce, fir, aspen, birch, bam, and white pine.</p> <p><u>Other Comment:</u> Harvest out of YOE with stnad 29 in 106.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 468.2

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 106

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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Dominant Site Conditions

				2E	5B	5C	2G	2H	3A	3J	5E
120	120	0	0	Aspen		0	0				
10	10	0	0	Bog			0				
53	12	0	41	Cedar			0	40	2		
80	79	0	1	Herbaceous Openland						1	
75	67	0	8	Jack Pine						8	
25	25	0	0	Low-Density Trees						0	
26	0	0	26	Lowland Aspen/Balsam Poplar						26	
220	1	13	206	Lowland Conifers		13	206	0		0	
33	4	0	29	Lowland Deciduous			29				
388	205	0	183	Lowland Shrub	0	0	86	0		82	15
73	51	0	22	Lowland Spruce/Fir			16	5		0	2
31	30	0	0	Marsh			0	0			0
41	41	0	0	Mixed Upland Deciduous					0		
6	0	6	1	Natural Mixed Pines		6				1	
16	16	0	0	Northern Hardwood						0	
520	500	12	8	Red Pine		12				8	
49	0	0	49	Tamarack			0	49			
35	30	0	5	Upland Conifers			5				
33	23	0	10	Upland Mixed Forest						10	
66	2	46	18	Upland Spruce/Fir	5	42	0			18	
1,900	1,215	77	607	Total Forested Acres	5	13	59	343	93	2	153
	64%	4%	32%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 106

Year of Entry: 2023

2	Available	2E: Road needed	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3A: Conservation Values incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	318	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	87	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 106

Year of Entry: 2023

8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 106

Year of Entry: 2023

14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Monitor for SBW							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	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.

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	6122 - Black Spruce	Poletimber Well	15.6	103	Unspecified	N/A	No access to this stand. Looks like the same as adjacent spruce stand in compartment and got data from Compartment 113 stand 56 which is the remaining part of the stand.
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2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	2.7	102	81-110	N/A	Very wet to access site.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	50	Pole	7	102	Paper Birch	Low	Variable	Sapling
Balsam Fir	15	Pole	6		Balsam Fir	Low	Variable	Sapling
Red Maple	10	Pole	7					
White Spruce	5	Pole	7					
Quaking Aspen	20	Pole	7					

3	6120 - Lowland Cedar	Poletimber Well	13.2	124	Unspecified	N/A	Cedar stand which is wet and very wet getting to the stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	8		Northern White Cedar	Low	Variable	Sapling
Black Spruce	10	Pole	8					
Northern White Cedar	70	Pole	9	124				
Tamarack	15	Pole	8					

4	6121 - Tamarack	Poletimber Medium	48.6	117	Unspecified	N/A	Tamarack stand with some poor quality cedar, balsam fir, aspen and spruce. Has lots of tag alder.
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5	622 - Lowland Shrub	Nonstocked	16.2			No	
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6	6229 - Mixed lowland shrub	Nonstocked	71.4		Immature	No	Very wet stand with no access. Changed from an S1 stand to unforested Lowland shrub. There are scattered spruce but it is mainly thick tag alder.
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Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full	10 - 20 feet	Tall Shrub
Black Spruce	Trace	>20 feet	Pole

7	622 - Lowland Shrub	Nonstocked	1.3		Unspecified	No	
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8	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	24.2	101		N/A	Data from stand in adjacent compartment 113 stand 51
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	25	Pole	8	
Paper Birch	5	Pole/Log	8	
Red Maple	5	Pole/Log	8	
Tamarack	30	Pole	8	
Black Spruce	35	Pole	8	101



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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9	6120 - Lowland Cedar	Poletimber Medium	40.2	97		N/A	Don't see anything alive other than cedar. Lots of spruce snags. Stand may have here affected by higher water table. Formerly S6 stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		4	Pole/Sapling	7	97	Tag Alder	
Balsam Poplar		3	Pole	7		Black Spruce	
Tamarack		2	Pole	7		Density	
Paper Birch		1	Pole	6		Avg. Height	
Northern White Cedar		90	Pole/Sapling	6	97	Size	

10	6225 - Bog	Nonstocked	10.5		Unspecified	No	
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11	622 - Lowland Shrub	Nonstocked	39.1			No	
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12	623 - Emergent Wetland	Nonstocked	10.9		Unspecified	No	
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13	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	13.1	116		N/A	Heavy cedar regeneration of 3-10' with some 20' tall. Few small ridges within the stand. Data taken form adjacent compartment 113 stand 49.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		5	Pole	7		Willow spp.	
Black Spruce		25	Pole	6		Tag Alder	
Northern White Cedar		40	Pole/Sapling	6	116	Northern White Cedar	
Tamarack		30	Pole/Sapling	7	63	Tamarack	

14	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Medium	35.4	39	1-50	N/A	Upland with some low. Mostly spruce fir with a mix of almost everything else. Harvested in 1983.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		7	Sapling/Pole	4			
Tamarack		3	Sapling/Pole	3			
Balsam Fir		31	Sapling/Pole	4	39		
White Pine		2	Sapling/Pole	4			
Paper Birch		7	Sapling/Pole	4			
Black Spruce		12	Sapling/Pole	4			
Red Maple		20	Sapling/Pole	4			
White Spruce		15	Sapling/Pole	4			
Black Cherry		3	Sapling	3			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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15 4191 - Mixed Upland Deciduous with Conifer Sapling Well 38.3 39 1-50 N/A Real nice regeneration within the stand. Few low areas but mostly upland type and a few more open areas. Cut in 1983.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5	Sapling/Pole	4	
White Spruce	5	Sapling/Pole	4	
Quaking Aspen	14	Sapling/Pole	4	
Black Cherry	23	Sapling/Pole	4	
Red Maple	25	Sapling/Pole	4	39
Balsam Fir	12	Sapling/Pole	4	
Tamarack	3	Sapling/Pole	4	
Paper Birch	11	Sapling/Pole	4	
White Pine	2	Sapling/Pole	4	

16 629 - Mixed non-forested wetland Nonstocked 85.0 0 Unspecified 613 - Lowland Mixed Forest Clear cut in 2017 in Spruced Up Mix 45-122-13. Scattered mature trees remaining. There are scattered clumps of cherry, bam, and aspen regeneration but large areas of the stand have not begun to regenerate. Continue to monitor for regeneration.

17 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 182.8 98 N/A This stand is a conglomeration of lowland conifer species with some maple, aspen and birch. Few high spots and lots of lower wet areas with more tag alder with few trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	8		Black Spruce	Low	Variable	Sapling
Black Spruce	25	Pole	7		Tag Alder	Medium	10 - 20 feet	Tall Shrub
Balsam Fir	5	Pole	6		Northern White Cedar	Low	Variable	Sapling
Tamarack	13	Pole	6					
Red Maple	7	Pole	8					
White Spruce	5	Pole	7					
Balsam Poplar	5	Pole	8					
Northern White Cedar	35	Pole	8	98				

18 4119 - Mixed Northern Hardwoods Sawtimber Well 8.9 100 51-80 N/A Select harvested in 2001 on Pounding Hammer Hardwood #45-123-98-01. Basal area is pretty low, not much beech left. Mostly red maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	10	Log/Pole	11		Red Maple	Low	Variable	Sapling
Beech	5	Log/Pole	11		Beech	Medium	Variable	Sapling
Red Maple	50	Log/Pole	12	100	Sugar Maple	Low	Variable	Sapling
Hemlock	5	Log/Pole	12					
Sugar Maple	24	Log/Pole	11					
Paper Birch	6	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19	42320 - Upland Spruce	Poletimber Well	43.3	63		N/A	Upland spruce with a few low spots. Some small aspen clones are scattered throughout. Black spruce picks up in the west part of the stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		2	Pole/Log	8		Balsam Fir	
White Pine		1	Log	11		Low	
Balsam Fir		7	Pole	7		Variable	
Black Spruce		15	Pole	7		Sapling	
Red Maple		4	Log/Pole	11			
White Spruce		50	Pole/Log	9	63		
Quaking Aspen		20	Log/Pole	10			
Black Cherry		1	Pole/Log	8			

20	42320 - Upland Spruce	Poletimber Well	4.7	90		N/A	Spruce stand surrounded by tag alder swamps.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		30	Pole/Log	8		White Spruce	
Balsam Fir		15	Pole	7		Low	
Red Maple		10	Pole	8		Variable	
Black Spruce		30	Pole/Log	8	90	Sapling	
Paper Birch		15	Pole	8			

21	622 - Lowland Shrub	Nonstocked	56.6		Unspecified	No	
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22	4130 - Aspen	Sapling Well	23.3	26	Immature	N/A	Aspen is doing well. Trees are 30+ feet high and it's right on the edge between a sapling and pole stand. Cut on Timber Doodle Aspen #44-28-94-01 finished in June 1996.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		77	Sapling/Pole	4	26		
Red Maple		5	Sapling	3			
White Spruce		4	Sapling	3			
Balsam Fir		2	Sapling/Pole	4			
Paper Birch		6	Sapling	4			
Black Cherry		6	Sapling	3			

23	622 - Lowland Shrub	Nonstocked	4.8			No	
		Sub-Canopy Species		Density	Avg. Height	Size	
		Tag Alder		High	5 - 10 feet	Tall Shrub	

24	622 - Lowland Shrub	Nonstocked	19.6			No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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25	6122 - Black Spruce	Poletimber Well	4.9	97	Unspecified	N/A	Spruce island surrounded by wetland.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Poplar		6	Pole	7		Black Spruce	
Tamarack		13	Pole	7		Tag Alder	
Paper Birch		4	Pole	6		Density	
Black Spruce		77	Pole/Sapling	7	97	Avg. Height	
						Size	
						Sapling	
						Tall Shrub	

26	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	32.8	52	51-80	N/A	Lowland mixed stand. The openings in the stand have filled in with red maple and birch. Stand was previously a 4, now a 6. There are some older, mature red maple and black spruce scattered about. Check in 10 years.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		10	Pole	7		Black Spruce	
Balsam Poplar		10	Pole	6		Tag Alder	
Quaking Aspen		10	Pole/Sapling	5		Density	
Paper Birch		13	Pole	7		Avg. Height	
Tamarack		7	Pole	7		Size	
Red Maple		30	Pole/Sapling	6	52	Sapling	
						Tall Shrub	

27	6122 - Black Spruce	Poletimber Well	20.2	97		N/A	Black Spruce stand with a few other species mixed into the stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		10	Pole	6		Black Spruce	
Black Spruce		78	Pole	8	97	Density	
Paper Birch		5	Pole	8		Avg. Height	
White Pine		2	Pole/Log	9		Size	
Quaking Aspen		5	Pole	8		Sapling	

29	6122 - Black Spruce	Poletimber Well	20.8	97	Unspecified	N/A	Decent black spruce stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		73	Pole	8	97	Black Spruce	
Paper Birch		2	Pole	8		Tag Alder	
Tamarack		5	Pole	7		Density	
Quaking Aspen		10	Pole	8		Avg. Height	
White Pine		5	Log	15		Size	
Balsam Fir		5	Pole	7		Sapling	
						Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
30	4139 - Aspen, Mixed Deciduous	Sapling Well	23.0	6	Immature	N/A	Stand cut in 2016 in Spruced Up Mix 45-122-13. Regen is coming in pretty well. Few areas heavier to conifer and some wet areas.																																												
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31	623 - Emergent Wetland	Nonstocked	15.2		Unspecified	No																																													
32	6122 - Black Spruce	Poletimber Well	11.7	93		N/A	Black Spruce stand with some aspen, paper birch and tamarack.																																												
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33	4130 - Aspen	Sapling Medium	29.3	14	Immature	N/A	Few open areas mostly real nice aspen. Few spruce and maple poles left 3- 10 feet tall. Some jack pine has grown in. trail runs thru the stand. Cut in 2008 in ATV Aspen 45-135-04																																												
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Black Cherry	7	Sapling	2																																																
34	629 - Mixed non-forested wetland	Nonstocked	3.8		Unspecified	No																																													
35	622 - Lowland Shrub	Nonstocked	7.5		Unspecified	No																																													
36	42110 - Planted Red Pine	Sawtimber Well	4.4	85	141-170	N/A	Stand thinned in 2016 to about 120 BA.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
37	4319 - Mixed Upland Forest	Sapling Medium	5.9	6	Immature	N/A	Stand was cut in 2016 in Spruced Up Mix 45-122-13. Regen is coming in pretty good.																																													
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38	42110 - Planted Red Pine	Sapling Well	12.8	21	Immature	N/A	Trees are growing well. There is a decent amount of volunteer red and Jack pine growing among the rows. Pretty dense. Trees are 20-25' tall. Burned in August 1999 on Thunder Alley Fire. Salvaged on the Thunder Alley Fire Salvage #44-17-00-02. Planted on FTP #C44-518 by trenching and hand planting in April 2001.																																													
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39	42110 - Planted Red Pine	Sapling Well	12.4	22	Immature	N/A	20-30 feet tall average. Good healthy trees. Harvested on sale #27-94-01 then burned and hand planted in May 2000 on FTP # C44-444.																																													
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40	4130 - Aspen	Sapling Well	8.9	26	Immature	N/A	Timber Doodle Aspen 28-94-01; completed in 1996. Aspen is doing well. ORV trail run thru stand.																																													
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41	42110 - Planted Red Pine	Sapling Well	44.7	22	Immature	N/A	Trees are 20-30' tall and looking good. Burned and planted in 1999 and 2000. FTP 44-444																																													
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42	42110 - Planted Red Pine	Sapling Well	4.3	23	Immature	N/A	Harvested on timber sale #27-94-01. Burned and machine planted in May of 1999 on FTP # C44-444. Looks good.																																													
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43	6112 - Lowland Aspen	Poletimber Medium	25.9	80	Unspecified	N/A	Narrow drainage with intermittent stream flowing through the stand. There a patch of red pine on the northern part and scattered along edge with the aspen, red maple, spruce, fir and an elm.																																																						
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44	42110 - Planted Red Pine	Sapling Well	69.0	10	Immature	N/A	Trees are looking good for the most part. The north finger, just east of stand 38 is more scattered and has more hardwood in it. Cut in 2010 in Blueberry Pine RPP 45-110-08; Sprayed in 9/6/14. Planted in 2012.																																																						
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45	623 - Emergent Wetland	Nonstocked	1.6		Immature	No																																																							
46	42110 - Planted Red Pine	Sawtimber Well	51.9	84	111-140	N/A	BA is 100-120. Stand was thinned in the fall of 2016.																																																						
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47	42110 - Planted Red Pine	Sapling Well	38.9	19	Immature	N/A	Harvested in 2002 on timber sale #124-00-01 Rerun Pine. Burned and trenched in 2004 and planted in May of 2005. The red pine is looking real good and is free of any competition.																																																						
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48	42110 - Planted Red Pine	Sawtimber Well	19.6	85	111-140	N/A	Ba 150, higher in the north east side. Thinned in Open Red Pine 45-134-04 Leave 10 years and recheck. Stand looks good. Treated in 2005 and 2006.																																																						
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49	623 - Emergent Wetland	Nonstocked	3.0		Unspecified	No																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
50	4319 - Mixed Upland Forest	Poletimber Medium	4.2	35	Immature	N/A	Jack pine mostly with aspen and fir. Small Lowland drain runs through but mostly Upland. Real mixed stand in a low area. Few older trees where left when harvested.																																					
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51	42110 - Planted Red Pine	Sapling Well	7.3	23	Immature	N/A	Dense red pine is 4" average dbh and 25-30' tall. Decent amount of volunteer pine growing in between the planted rows. Harvested on sale #27-94-01. Burned and machine planted in May of 1999 on FTP #C44-444.																																					
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52	42110 - Planted Red Pine	Sawtimber Well	40.5	85	111-140	N/A	Ba around 120. Stand was thinned in the fall of 2016.																																					
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53	42110 - Planted Red Pine	Sawtimber Well	16.9	85	111-140	N/A	BA is about 120. Smaller DBHs compared to surrounding pine. Part of stand is buffer for the Carp River.																																					
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54	42110 - Planted Red Pine	Sawtimber Well	7.9	85	141-170	N/A	Ba about 150. Thinned in 2006 on Open Red Pine sale 45-134-04-01.																																					
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55	42110 - Planted Red Pine	Sapling Well	20.2	21	Immature	N/A	Harvested on sale #27-94-01. Stand was burned, trenched and hand planted in April 2001 on FTP #C44-444. Motorcycle trail runs thru the stand. Red pine looks good and healthy. 3-4" dbh, 25-30' tall.																																					
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56	42290 - Natural Mixed Pine	Sawtimber Well	6.1	84	111-140	N/A	Nice red pine stand that is a buffer for the Carp River.																																													
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57	42110 - Planted Red Pine	Sapling Medium	29.9	10	Immature	N/A	Planted in 2012. Release sprayed in 9/2014. Continue to monitor for release and pests.																																													
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58	42110 - Planted Red Pine	Sawtimber Well	12.2	85	81-110	N/A	Mixed stand with red pine, aspen and white pine. Red pine is good quality of larger diameter.																																													
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59	622 - Lowland Shrub	Nonstocked	61.8			No																																														
60	42110 - Planted Red Pine	Sapling Well	57.0	25	Immature	N/A	Pines are looking really good. 25'-30' tall. Harvested on Lost County Road sale #30-94-01. Site was chipped and some piles burned along the center road. Stand was trenched and hand planted in September 1997 on FTP #44-441.																																													
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61	42220 - Natural Jack Pine	Sapling Medium	25.4	31	Immature	N/A	Natural jack pine with cherry and some aspen. Canopy is patchy, probably around 50%. Was formerly an opening. Hold for 10-20 and then clear cut.																																													
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62	4311 - Pine, Aspen Mix	Sawtimber Well	22.7	61	81-110	N/A	Stand is aspen and mixed conifer. The aspen is poor quality and over mature. This stand is a buffer along the Carp River.																																													
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Jack Pine	2	Sapling	3																																																							
64	42220 - Natural Jack Pine	Poletimber Medium	50.0	38	Unspecified	N/A	Poor quality site. Formerly an opening. There is merchantable jack pine throughout. Young aspen and jack pine is filling into the remaining gaps.																																																			
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65	4130 - Aspen	Sapling Well	21.0	6	Immature	N/A	Regen is looking good. Pretty thick and head high.																																																			
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66	4130 - Aspen	Sapling Well	4.7	6	Immature	N/A	More residual was left in this clear cut. Quite a bit more 2-4 inch red maples, all black cherry, and white pine. Aspen is coming into the areas with less residual overhead.																																																			
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67	3302 - Low Density Conifer Trees	Nonstocked	24.5			No	Pine is looking good. Not too much competition from hardwoods. Continue to monitor for sawfly and further release.																																																			
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68	42110 - Planted Red Pine	Poletimber Well	3.8	84	111-140	N/A	Buffer left for Ozark Creek of red pine and jack pine. It grades into lowland.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
69	3105 - Mixed Upland Herbaceous	Nonstocked	79.7		Immature	4211 - Planted Red Pine	Aspen is coming in pretty heavy in some areas. This stand was harvested recently in order to maintain it as an opening but was determined at the 2023 compartment review to be suitable for conversion to rep pine. It will be site prepped and planted.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Spruce	Low	5 - 10 feet	Sapling	
								Red Maple	Low	< 5 feet	Sapling	
Quaking Aspen	High	5 - 10 feet	Sapling									
70	4130 - Aspen	Sapling Well	9.8	6	Immature	N/A	Regen has come in thick after the clear cut. Aspen and black cherry mostly and some red maple. Saplings are 8-10' high.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	70	Sapling	1	6
								Red Maple	10	Sapling	1	
Black Cherry	20	Sapling	1									
71	622 - Lowland Shrub	Nonstocked	21.0			No						
72	42320 - Upland Spruce	Poletimber Well	18.0	72	Unspecified	N/A	Long narrow stand with a portion of it is buffer for Ozark Creek.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	5	Log/Pole	10	
								Tamarack	5	Pole	8	
								White Spruce	25	Log/Pole	10	
								Jack Pine	30	Pole	8	
Black Spruce	35	Pole	6	72								
Sub-Canopy Species	Density	Avg. Height	Size									
Jack Pine	Low	Variable	Sapling									
White Spruce	Low	Variable	Sapling									
Balsam Fir	Low	Variable	Sapling									
73	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.9	84	51-80	N/A	Red maple stand was thinned recently. Check in 10 years. BA around 80.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Spruce	5	Log/Pole	12	
								Red Maple	48	Log/Pole	12	84
								Black Cherry	10	Pole	6	
								Sugar Maple	30	Log/Pole	12	
								White Pine	5	Log/Pole	10	
Quaking Aspen	2	Log/Pole	12									
Sub-Canopy Species	Density	Avg. Height	Size									
Balsam Fir	Low	Variable	Sapling									
Red Maple	Medium	Variable	Sapling									