



**SAULT FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 109 ENTRY YEAR: 2011

Compartment Acreage: 1,868 County: Chippewa

Revision Date: August 6, 2009

Stand Examiner: Amy Douglass

Legal Description: T44N-R06W, Sections 25, 34, 35 & 36; Trout Lake Township

RMU (if applicable):

Management Goals: This compartment is located in Chippewa County, just south of Trout Lake. It is on the northern end of the Carp River Red Pine Management Area. Plans for this Management Area are currently being written. Carp Lake, Frenchman Lake and Wegwaas Lake are considered primarily a summer lakeside cabin/resort area. Carp Lake is also the start of the Carp River. The majority of the compartment is composed of aspen of various age classes. The aspen stands which haven't been harvested within the last 30 years are mature to over-mature, and in need of regeneration. Aesthetics are important here. Chipping operations have been preferable along the travel corridors. Adequate buffers will be left along Carp River.

Soil and Topography: Sandy uplands are rolling to hilly with steep slopes in spots. Associated soils are Rousseau fine sand, Kinross-Au Gres complex, Rubicon sand, Wainola fine sand, Au Gres sand and Kalkaska sand. Lowlands are mainly bog or marsh complexes consisting of Markey and Carbondale mucks, Dawson and Loxley peats, and Kinross muck.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State land borders to the south and west, with USFS land to the east. Private land borders the north, with mostly small lot sized parcels. There has been an increased use of ORV's in the area, with some illegal activity present.

Unique, Natural Features: Carp River begins at Carp Lake and runs through the compartment. MNFI has identified a muskeg in the compartment.

Archeological, Historical, and Cultural Features: None noted, but two sections are flagged with archeological information.

Special Management Designations or Considerations: This is adjacent to a high summer use lakeside community. Aesthetics must be considered. There is already advanced aspen regeneration adjacent to those stands proposed for treatment. Chipping operations may be preferable adjacent to travel corridors and private residences. The aspen needs to be managed or we will lose it. Harvesting operations may be limited to non-winter due to snowmobile trails. Motorcycle trails and snowmobile trails (if applicable) must be signed and kept clean while logging operations are ongoing. A muskeg natural community (C rank) is identified by MNFI within the compartment and may affect treatment recommendations.

Watershed and Fisheries Considerations: Fisheries concerns: This compartment contains the Carp River, Johnson Lake, and Huckleberry Lake. This reach of the Carp River is classified as cold-transitional. A 300-

foot buffer should be maintained adjacent to the Carp River in stand 33 to discourage beaver damming. A 200 foot buffer is acceptable in stand 80, but coniferous species should be retained in the buffer.

Wildlife Habitat Considerations: Compartment 109 is located south of Trout Lake. Historically, it contained a mix of wetland and northern hardwoods, with additional noted species including hemlock, tamarack, white spruce, and balsam fir. Aspen is well-represented in the compartment at various ages now, although the other species also remain. Recent harvests have provided a good amount of young aspen growth for ruffed grouse, white-tailed deer, and other species. The Carp River flows through, and several lakes or ponds including Huckleberry Lake and Johnson Lake provide habitat for the common loon, beaver, and river otter. Michigan Natural Features Inventory has identified the Huckleberry Lake muskeg in the eastern half of the compartment as a special natural feature.

Wildlife objectives include protecting wetlands and waterbodies by buffering around these features, maintaining young early successional habitat while retaining some older trees within these habitats, maintaining hemlock where present, and promoting diversity within pine stands. Mature aspen and birch will provide budding trees as well as roosting or perching sites and will add to the diversity within and between stands. Retention of hard and soft mast bearing species, snags, den trees, and coarse woody debris is also important. Other species utilizing this area include gray wolf, coyote, black bear, American woodcock, northern saw-whet owl, various amphibians and reptiles, and other species.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel, in places thin to discontinuous. There is insufficient data to determine the glacial drift thickness. The Silurian Manistique and Burnt Bluff Groups and Cabot Head Shale subcrop below the glacial drift. The Burnt Bluff is quarried for stone/limestone in the area. The Trout Lake sand pit is located in Section 34 and gravel potential may be limited. There is no current economic oil and gas production in the UP.

Vehicle Access: County roads access the majority of the compartment. Huckleberry Road traverses the compartment, east to west, from O.J. Miller Road to M-123. Chippewa County plows this road between O.J. Miller Road to just east of the Carp River bridge, and is a seasonal county road beyond this point. Carp River Truck Trail and J.T. Camp Road are county roads to the county line. The county maintains and plows Carp River Truck Trail up to our sandpit, approximately ¼ mile. Huckleberry Lake Road is a department road prone to developing sand blowouts. Work has been done on this road in conjunction with timber sales. There are some two-tracks off Huckleberry Lake Road that afford access. Many other timber sale roads have been blocked after the sale was completed.

Survey Needs: None needed.

Recreational Facilities and Opportunities: Lakeside recreational property adjacent to the north. Snowmobile trails and Brevort-Trout Lake motorcycle trail cross the compartment.

Fire Protection: This is not a high fire area, but with the high recreational use and adjacency to large pine areas, there is potential for fire problems. There was a wildfire in the early 1960's in section 36, and more recently there was a lightning strike just to the south along Carp River. This is one of the farthest areas away from the Naubinway Field Office for response time. Adequate water sources are nearby.

Additional Compartment Information: There has been illegal trash dumping in a few stands from local residents. Also, there has been illegal ORV use of the motorcycle trail from the sand pit south to near the ponds, affecting over 1 mile of trail. The ORV's have continued to climb the sand hills adjacent to the sand pit, even after stumps and trees were felled to curb the activity.

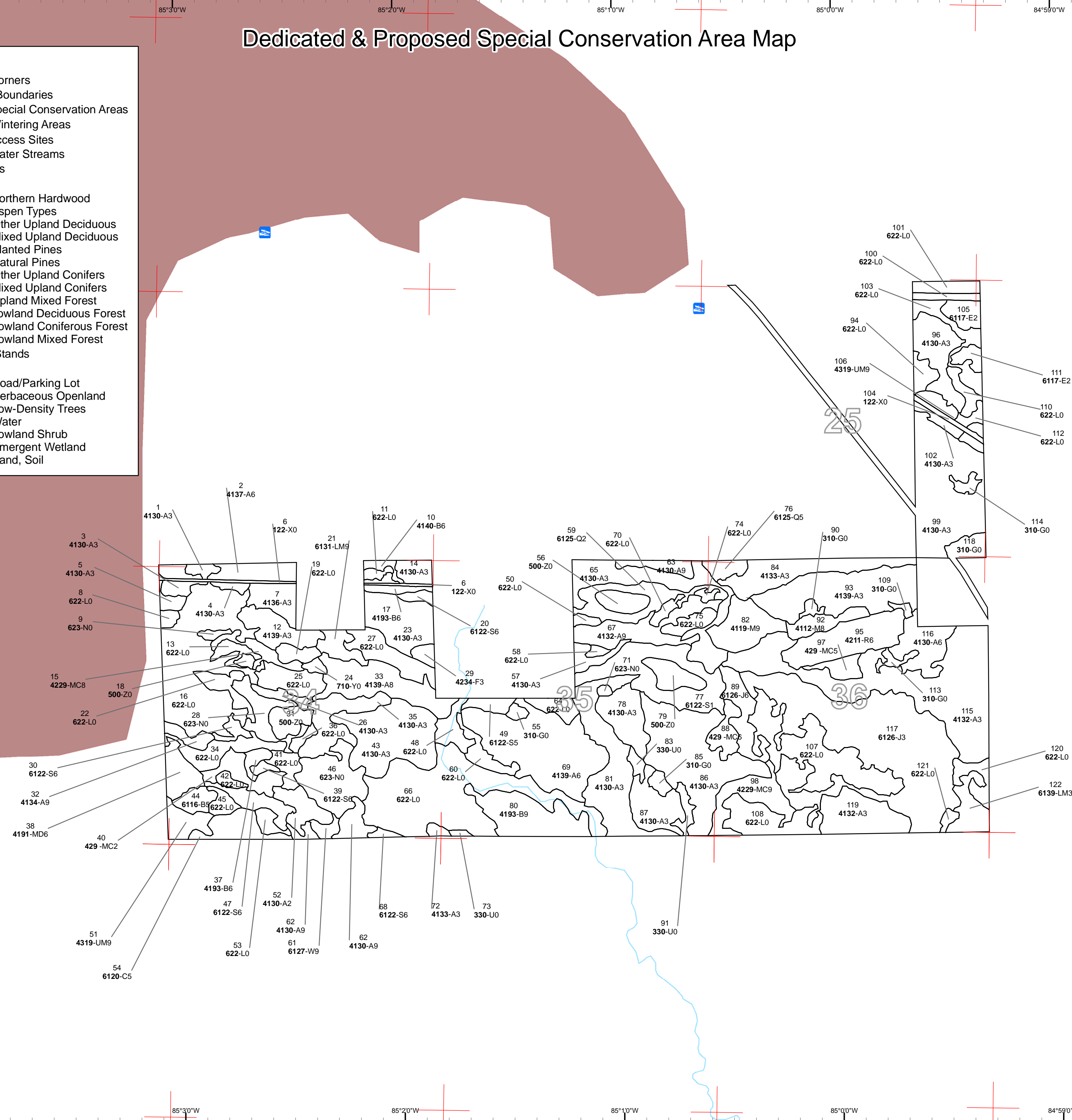
- **Cover Type details, Proposed Treatments, and Stand listings are listed in the attached reports:**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Listing – Forested**
 - ◆ **Stand Listing – Non Forested**
 - ◆ **Special Conservation Area (SCA) Details**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **SCA – Special Conservation Areas**

Dedicated & Proposed Special Conservation Area Map

Legend

- Miris Corners
- Stand Boundaries
- Dedicated Special Conservation Areas
- Deer Wintering Areas
- Ⓜ Boat Access Sites
- Cold Water Streams
- Forest Stands
- Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Stands
- Level 3
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil



Covertypes, Acres, and Age summary (Level 3 Cover Type)

Sault Ste. Marie Mgt. Unit

Compartment 109 Year of Entry 2011

Report Date: 08/13/2009



	Age Class															Total
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +	Uneven Age	
Aspen Types	0	135	209	386	0	0	20	0	26	37	0	0	0	0	34	845
Emergent Wetland	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Herbaceous Openland	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Coniferous Forest	0	0	0	137	0	40	45	17	4	2	4	0	14	0	0	262
Lowland Deciduous Forest	0	0	12	0	0	0	0	7	0	0	0	0	0	0	0	19
Lowland Mixed Forest	0	0	13	0	0	0	0	0	0	0	0	0	8	0	0	21
Lowland Shrub	410	0	0	0	0	0	0	0	0	0	0	0	0	0	0	410
Mixed Upland Conifers	0	0	0	7	13	0	9	0	0	0	0	0	0	0	0	28
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	47	4	0	0	0	0	0	51
Natural Pines	0	0	0	0	0	0	0	20	8	0	0	0	0	0	0	28
Northern Hardwood	0	0	0	0	0	0	0	21	0	10	0	0	0	0	0	31
Other Upland Conifers	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Other Upland Deciduous	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
Planted Pines	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	32
Road/Parking Lot	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	0	0	0	0	8	0	0	10	0	0	0	0	17
Water	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Total	526	135	237	563	13	40	74	73	88	53	13	0	22	0	34	1868

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
17 45109017-cc w/res	3.9	4193 - Birch, Aspen	High Density Pole	77	Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous

Rev Cmnt: Narrow ridge along Huckleberry Road that had been left to screen cut behind it. The other cut is fully regenerated.

Rev Spec: Clearcut to regenerate aspen and birch, leaving white pine and red pine. Retain some birch seed trees.

Next Steps: Check for regeneration after harvest per Work Instructions. Acceptable regeneration includes aspen, birch, red maple, spruce, balsam and white pine in varying amounts.

32 45109032-World Series Mix	5.2	4134 - Aspen, Spruce/Fir	High Density Log	81	Harvest	Clearcut with Reserves	Aspen, Spruce/Fir
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Rev Cmnt: Majority of stand and sale is in adjacent compartment to the west (110).

Rev Spec: Currently under contract 451190401, World Series Mix. Clearcut leaving white pine and hemlock where present.

Next Steps: Check for regeneration after harvest per Work Instructions. Acceptable regeneration includes aspen, red maple, white birch, spruce, balsam and white pine in varying amounts.

33 45109033-cc w/res	24.6	4139 - Aspen, Mixed Deciduous	Medium Density Log	80	Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous
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Rev Cmnt: ORV hill climb problems still exist along Carp River Road. Illegal use of 4 wheelers through this stand along trail.

Rev Spec: Clearcut leaving white pine and red pine. Buffer being left along Carp River Road to help alleviate opening it up to more ORV problems. Try to leave some uncut patches along parts of the motorcycle trail for visual effect. Leave 300 foot buffer along Carp River.

WLD: Leave white pine, leave some patches of mature aspen, and leave scattered birch for a seed source (leave some in aspen patches if present). Do not cut any hemlock or cedar if present. Buffer wetlands.

Next Steps: Check for regeneration after harvest per Work Instructions. Acceptable regeneration includes aspen, red maple, white birch, balsam fir, white pine, red pine and spruce in varying amounts.

37 45109037-cc w/res	3.5	4193 - Birch, Aspen	High Density Pole	85	Harvest	Clearcut with Reserves	Aspen, Mixed Conifer
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Rev Cmnt: Small stand in crook of road.

Rev Spec: Clearcut leaving white pine, red pine and scattered white birch. Protect motorcycle trail.

Next Steps: Check for regeneration after harvest per Work Instructions. Acceptable regeneration includes aspen, red maple, white birch, jack pine, white pine, red pine, balsam and spruce in varying amounts.

38 45109038-spp cut	11.9	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	76	Harvest	Shelter Wood with Reserves	Mixed Upland Deciduous with Conifer
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Rev Cmnt:

Rev Spec: This will be a combination of no cut and clearcut. Leave hemlock groves intact (red line around the larger groves). For the rest of the stand - leave yellow birch, white pine, hemlock and some white birch seed trees/clumps. Cut everything else. Not good for leave tree marking, but could leave mark the white birch seed trees/clumps while cruising. Protect motorcycle trail.

WLD: Leave hemlocks clumps in-tact, and leave hemlock, yellow birch, and some white birch as prescribed. Also leave any cedar. Buffer wetlands by 1 tree length or 1 chain, whichever is greater.

Next Steps: Check for regeneration after harvest per Work Instructions. Acceptable regeneration includes red maple, white birch, white pine, hemlock, aspen, balsam and spruce in varying amounts.

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
39 45109039-cc w/res	1.3	6122 - Black Spruce	High Density Pole	80	Harvest	Clearcut with Reserves	Black Spruce

Rev
Cmnt:

Rev Clearcut leaving white pine. Cut with adjacent aspen/birch stand. Stay out of natural drainage on the south edge of stand.
Spec: WLD: Buffer drainage.

Next
Steps: Check for regeneration after harvest per Work Instructions. Acceptable regeneration includes black spruce, tamarack, aspen, birch and white pine in varying amounts.

44 45109044-cc	6.8	6116 - Lowland Birch	Medium Density Pole	65	Harvest	Clearcut	Lowland Aspen
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Rev
Cmnt: Harvest with adjacent stand.

Rev Clearcut for aspen/birch regeneration. May be best to harvest on frozen ground or very dry summer. Leave some budding trees on the edges and some large wolfy aspen for soft snags.
Spec: WLD: Buffer wetlands by 1 tree length or 1 chain, whichever is greater.

Next
Steps: Check for regeneration after harvest per Work Instructions. Acceptable regeneration includes aspen, balm, red maple, white birch, balsam and spruce in varying amounts.

62 45109062- Grand View Harvest	10.4	4130 - Aspen	High Density Log	70	Harvest	Clearcut with Reserves	Aspen
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Rev
Cmnt: Majority of stand and sale is in the adjacent compartment to the south (108).

Rev Currently under contract 451120501, Grand View Harvest. Clearcut leaving white pine and hemlock where present. Protect motorcycle trail by signing
Spec: and keeping clear of brush during harvest activity.

Next
Steps: Check for regeneration after harvest per Work Instructions. Acceptable regeneration includes aspen, white birch, red maple, cherry, spruce, balsam and white pine in varying amounts.

63 45109063-cc w/res	6.6	4130 - Aspen	High Density Log	80	Harvest	Clearcut with Reserves	Aspen
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Rev
Cmnt: Regeneration behind this buffer is very nice.

Rev Clearcut old buffer leaving red pine, white pine and oak where present.
Spec:

Next
Steps: Check for regeneration after harvest per Work Instructions. Acceptable regeneration includes aspen, white birch, red maple, red pine and white pine in varying amounts.

67 45109067-cc w/res	24.4	4132 - Aspen, Jack Pine	High Density Log	80	Harvest	Clearcut with Reserves	Aspen, Jack Pine
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Rev
Cmnt: Snowmobile trail follows Huckleberry Road. Be aware of stump heights along road.

Rev Clearcut leaving red pine, white pine and oak where present. Leave an edge of budding trees along bog edges. The southeastern end may not be
Spec: harvested south of road if too steep (except to take some "road" trees).

Next
Steps: Check for regeneration after harvest per Work Instructions. Acceptable regeneration includes aspen, jack pine, white birch, oak, red maple, red pine and white pine in varying amounts.



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
80 45109080-cc w/res	22.3	4193 - Birch, Aspen	High Density Log	78	Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous

Rev Cmnt: Will need to build a road off Carp River Road to access. Red pine stand is adjacent to the south.

Rev Spec: Clearcut leaving red and white pine. Buffer Carp River by 200 feet (reflected in treatment boundary). This can be considered for retention also. Try to discourage aspen in this buffer. Could cut some aspen in buffer if there is enough conifer cover. Be sure to include aspen/birch budding trees and large wolfy aspen in the edges where present.

WLD: Also leave a couple of small patches of birch and aspen in the stand for diveristy. Buffer wetlands by 1 chain or a tree length.

Next Steps: Check for regeneration after harvest per Work Instructions. Acceptable regeneration includes aspen, white birch, red maple, jack pine, white pine, red pine, balsam and spruce in varying amounts.

88 45109088-cc w/res	8.7	429 - Mixed Upland Conifers	High Density Pole	53	Harvest	Clearcut with Reserves	Mixed Upland Forest
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Rev Cmnt:
Rev Spec: Clearcut leaving red pine and white pine. Cut in summer for scarification. Retention strip left west of road.

Next Steps: Check for regeneration after harvest per Work Instructions. Acceptable regeneration includes jack pine, spruce and aspen mixed with red maple, white birch, cherry, balsam, red pine and white pine.

89 45109089-cc w/res	10.9	6126 - Lowland Jack Pine	High Density Pole	53	Harvest	Clearcut with Reserves	Lowland Jack Pine
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Rev Cmnt: Lower ground, but may have option to harvest in dry summer. Dry summer harvest would provide scarification needed. May be okay to cut in winter too. Would have to evaluate regen if not scarified somewhat during cutting.

Rev Spec: Clearcut leaving white pine and red pine. Retention strip is left on west side of Huckleberry Lake Road and fingers in southeastern corner. Some spruce/jack pine will be left along bog edge due to smaller size. Eastern edge is drawn along muskeg boundary.

WLD: Provide a 1 chain or tree length, whichever is greater, along wetland edges. Leave a retention strip across the stand to provide a connection between stands to the west and stands to the east.

Next Steps: Check for regeneration after harvest per Work Instructions. Acceptable regeneration includes jack pine and black spruce with some tamarack, white birch, red maple, balsam and white pine.

95 45109095-3rd row thin	32.4	42110 - Planted Red Pine	High Density Pole	25	Harvest	Systematic Thinning	Planted Red Pine
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Rev Cmnt:
Rev Spec: 3rd row thin red pine plantation. Pretty easy to follow rows.

WLD: Leave any cherry and other hardwoods.

Next Steps: N/A.

98 45109098-spp cut	18.1	42290 - Natural Mixed Pine	High Density Log	63	Harvest	Group Selection	Natural Mixed Pine
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Rev Cmnt: Upland/lowland mixed pine and spruce. May be best to harvest in dry summer to help provide some scarification.

Rev Spec: Remove all spruce and jack pine, leaving all red and white pine. May need to mark red/white pine if needed for access. Will end up being small patch clearcuts interspersed with red/white pine areas. Some fingers and edges along bog will be untouched.

WLD: Leave a 1 chain or tree length minimum buffer around wetlands, particularly any areas of muskeg.

Next Steps: Check for regeneration after harvest per Work Instructions. Acceptable regeneration includes spruce, jack pine, white pine, red pine with white birch and red maple.

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
106 45109106-cc w/res	7.6	4319 - Mixed Upland Forest	High Density Log	60	Harvest	Clearcut with Reserves	Aspen, Jack Pine

Rev Cmmt: Will need County Road permission to access the old strips along the road. One old access exists on the north side, but will need a culvert.

Rev Spec: Clearcut old buffers, leaving all red pine and white pine.

Next Steps: Check for regeneration after harvest per Work Instructions. Acceptable regeneration includes aspen, jack pine, spruce, red maple, white birch, balsam, white pine and red pine in varying amounts.

116 45109116-cc w/res	19.5	4130 - Aspen	High Density Pole	55	Harvest	Clearcut with Reserves	Aspen
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Rev Cmmt: Clearcut leaving all red and white pine and oak if present. Leave some budding trees along edges and old crappy aspen for soft snags.

Rev Spec: WLD: Leave a couple of patches of mature aspen and birch.

Next Steps: Check for regeneration after harvest per Work Instructions. Acceptable regeneration includes aspen, red maple, white birch, jack pine, balsam and spruce in varying amounts.

**Total Treatment
Acreage Proposed: 218.2**

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**



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Treatment Name	Acres	Stage1 Cover Type	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 1 of 1
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Limiting Factor and Comment:

Rev Cmnt:

Rev Spec:

Next Steps:

No Treatment Reason

**Total Treatment
Acreage Proposed: 0**



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.

Inventory Method: IFMAP

Stand	SCA Name	Acres	Comments



DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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

Conservation Area	Type	Description
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.