



**SAULT FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 112 ENTRY YEAR: 2011

Compartment Acreage: 1,839 County: Mackinac

Revision Date: October 22, 2009

Stand Examiner: Cory Luoto

Legal Description: T43N R6W Sections: 7, 8, & 9; Moran Township

RMU (if applicable):

Management Goals: This compartment is located approximately 5 miles southwest of Trout Lake. It is within the Mackinac Mix Management Area. Plans for this Management Area are currently being written. It is accessed off of the north end of the J. T. Camp Road and the Caffey Truck Trail. The accessible parts of the compartment have been treated regularly but there is large area of cedar and lowland which makes access to several stands impossible. The aspen and spruce – fir types are regenerating nicely. The hardwoods need regular treatment to promote health and growth. The Caffey Truck Trail is a groomed snowmobile trail in the winter, and in the summer it is crisscrossed by an ORV Trail. An ORV trail also goes through the northeast part of section 9.

Soil and Topography: Lowlands and swamps consist primarily of Markey and Carbondale mucks, with Spot-Finch and Markey-Spot-Finch Complexes. Uplands are generally Amadon-Rock outcrop complex, Menominee loamy sand, Wallace sand, and Paquin sand. Topography is level lowlands to rolling uplands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment is completely surrounded by State lands. The Northeast quarter of the southeast quarter of section 8 is private.

Unique, Natural Features (include only non-site specific and non-sensitive information): Large boulders and rock ledges found in the east ½ of the compartment. Walking fern has been found in the area on large boulders.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None identified.

Special Management Designations or Considerations: Need to identify and protect boulders with walking fern within sale areas. ORV trails must be signed and kept clean while logging operations are ongoing

Watershed and Fisheries Considerations: Fisheries Concerns: This compartment contains the South Branch Carp River, which is classified as cold. A buffer of 300 feet should be maintained adjacent to this waterbody. Prescribed treatments are appropriate for protection of this waterbody.

Wildlife Habitat Considerations: This compartment is located approximately 4 miles southwest of the village of Trout Lake. A large portion of it contains lowland conifer and other wetland types, particularly in the western half and the southeastern portions. Of the remaining habitats, northern hardwoods, aspen, and

mixed deciduous with conifer components form the larger habitat types. The South Branch of the Carp River bisects the eastern and western sides of the compartment, and three or more ponds also exist within the wetlands mentioned above.

Wildlife objectives include maintaining species and structural diversity in northern hardwood stands, maintaining a forest opening, protecting wetlands and waterbodies by incorporating a no-cut buffer around them, and maintaining cedar and hemlock cover where present. Retention of hard and soft mast bearing species, snags, den trees, and coarse woody debris is important. A component of mature trees will be left within final harvest stands to provide budding and roosting or perching trees, and to increase diversity. Species use includes white-tailed deer, moose, beaver, cooper's and sharp-shinned hawks, ruffed grouse, gray wolf, hermit thrush and various other migratory song birds.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of peat and muck and lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Silurian Engadine and Manistique Groups subcrop below the glacial drift. The Engadine is quarried for stone/limestone in the area. Gravel pits are not located in the area and potential appears to be limited. There is no current economic oil and gas production in the UP.

Vehicle Access: The J. T. Camp Road accesses the compartment from the north, while the Caffey Truck Trail provides access to the south. There are several two tracks and ice roads that branch off of the main roads.

Survey Needs: None needed.

Recreational Facilities and Opportunities: The Brevort -Trout Lake Motorcycle trail winds along the Caffey Truck Trail an in the northeast quarter of section nine. The Caffey Truck Trail is also a groomed snowmobile trail # 2.

Fire Protection: This is a low fire danger area.

Additional Compartment Information:

- **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**

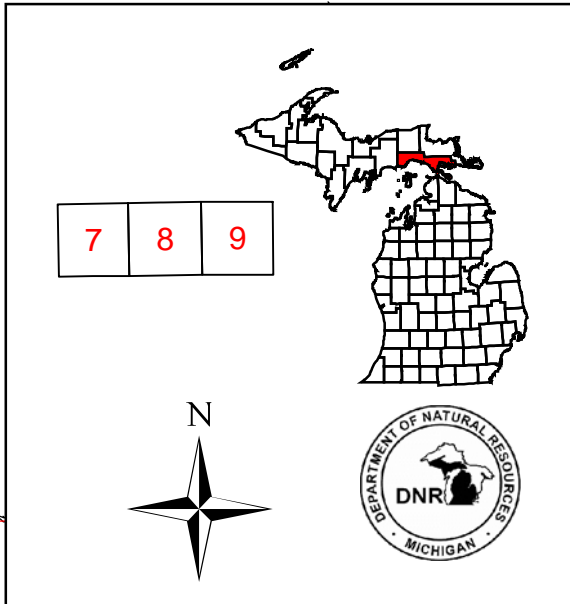
- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **SCA – Special Conservation Areas**

Cover Type & Treatment Map

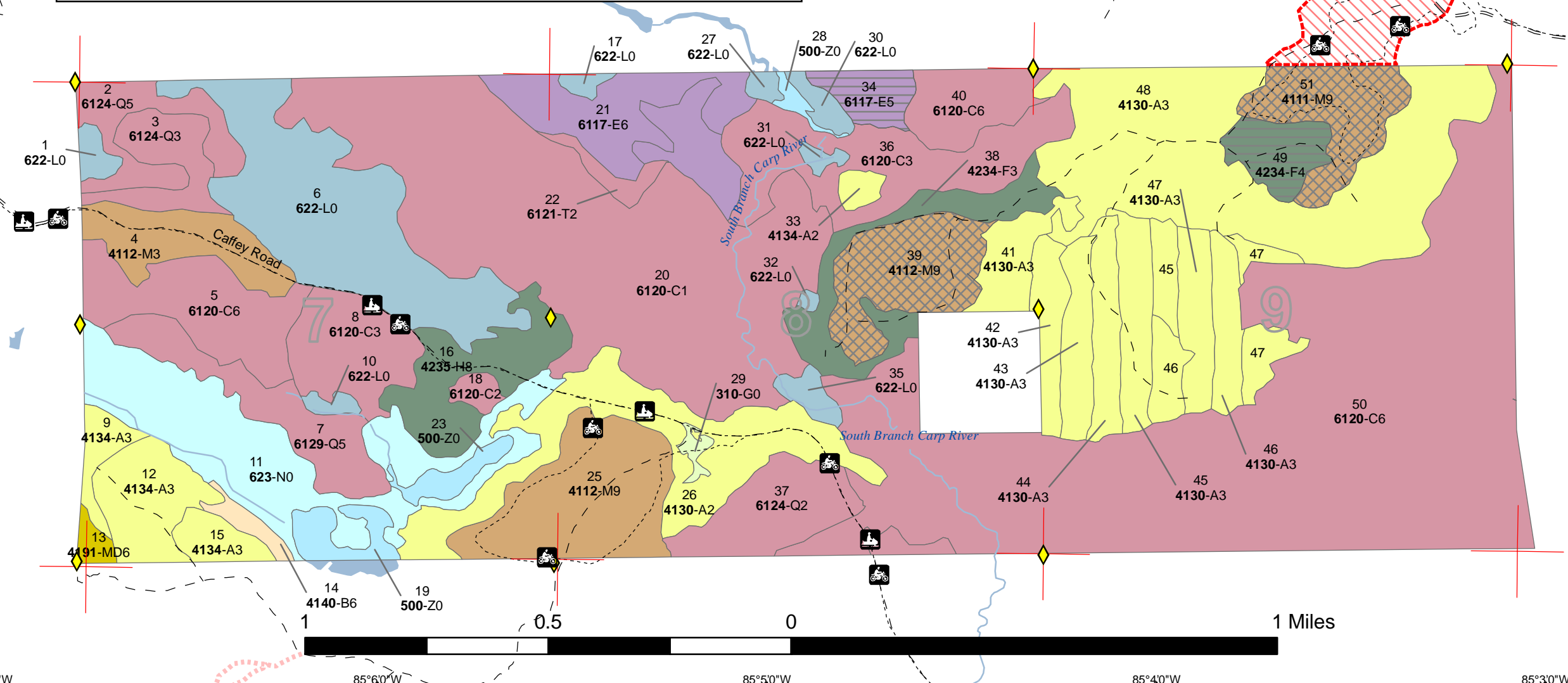
Compartment 112
 T43N, R06W, Sec. 7, 8, 9
 County: Mackinac
 Unit: Sault Ste Marie
 YOE: 2011
 Acres: 1,838 GIS Calculated
 Stand Examiner: Cory Luoto
 Map Revised: 08/17/2009
 Map Phase: Pre-Review

Legend

- | | | |
|-------|------------------------------------|---------------------------------|
| —+— | Miris Corners | Forest Stands |
| ◆ | RLS Corners | Level 3 |
| == | Gravel Road | 411 - Northern Hardwood |
| - - - | Poor Dirt Road | 413 - Aspen Types |
| ⋯ | Closed Road | 414 - Other Upland Deciduous |
| ⋯ | Intermittent Stream/Drain | 419 - Mixed Upland Deciduous |
| — | Stream | 423 - Other Upland Conifers |
| — | Lakes and Rivers | 611 - Lowland Deciduous Forest |
| ⋯ | Trails | 612 - Lowland Coniferous Forest |
| 🏍️ | Motorcycle Trails | Non-Forest Stands |
| 🏂 | Snowmobile Trails | Level 3 |
| ▭ | Clearcut (w/Reserves, Patch/Strip) | 310 - Herbaceous Openland |
| ▨ | Selection (Group, Single Tree) | 500 - Water |
| ▨ | Out of YOE Treatments | 622 - Lowland Shrub |
| | | 623 - Emergent Wetland |



Stand #	Stocking Density
23	
(412)0 - A7	
Level 3 OI	
Level 4 Code	
Cover Type Code	



46°30'N

46°30'N

85°70'W 85°60'W 85°50'W 85°40'W 85°30'W

85°70'W 85°60'W 85°50'W 85°40'W 85°30'W

46°30'N

85°30'W

Stand Boundary Map

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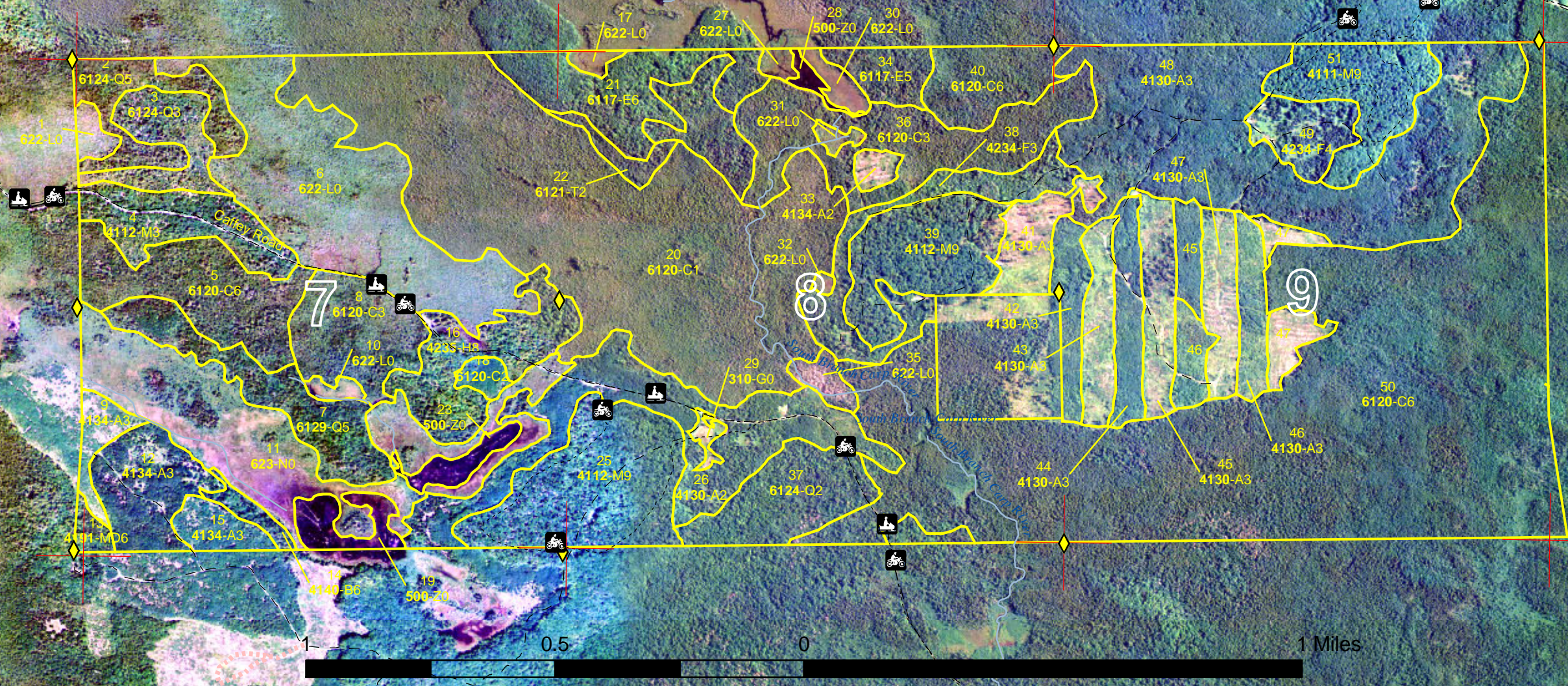
Legend

- | | | |
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7 8 9

N

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



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

Sault Ste. Marie Mgt. Unit

Compartment 112 Year of Entry 2011

Report Date: 08/11/2009



	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	82	77	209	27	0	0	0	0	0	0	0	0	0	0	394
Emergent Wetland	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Coniferous Forest	0	35	0	256	0	38	34	0	24	27	442	0	43	0	0	899
Lowland Deciduous Forest	0	0	0	0	0	0	0	17	12	36	0	0	0	0	0	66
Lowland Shrub	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
Mixed Upland Deciduous	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
Northern Hardwood	0	0	0	28	0	0	0	0	98	33	0	0	0	0	0	159
Other Upland Conifers	0	0	0	31	0	16	0	0	0	0	35	0	0	0	0	82
Other Upland Deciduous	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Water	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Total	228	117	77	523	27	54	38	22	134	96	477	0	43	0	0	1837

**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
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39	45112039-Cut	40.0	4112 - Maple, Beech, Cherry Association	High Density Log	77	Harvest	Single Tree Selection	Sugar Maple Association
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Rev
Cmnt: Protect USGS survey markers in the area.

Rev Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood and all juneberry and conifer should be left. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present.

WLD: Leave 3-5 beech per acre and some large, wolfy trees. Leave any white pine and hemlock.

Next
Steps: Follow-up treatment with regeneration survey according to work instructions. Acceptable regeneration is aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.

49	45112049-Cut	16.5	42340 - Upland Spruce/Fir	Low Density Pole	44	Harvest	Clearcut	Warm Season Grass
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Rev
Cmnt:

Rev This stand is an opening which is filling in. Can be commercially harvested with adjacent stands.
Spec:

Next
Steps: Check stand after harvest to see if follow-up treatment is necessary to maintain the opening.

51	45112051-Cut	32.9	4111 - S.Maple, Hard Mast Association	High Density Log	83	Harvest	Single Tree Selection	Sugar Maple Association
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Rev
Cmnt: ORV trail runs through the stand.

Rev Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood and all juneberry and conifer should be left. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present.

WLD: Leave 3-5 beech per acre and some large, wolfy trees. Leave any white pine and hemlock.

Next
Steps: Follow-up treatment with regeneration survey according to work instructions. Acceptable regeneration is aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.

**Total Treatment
Acreage Proposed: 89.4**



Treatment Name	Acres	Stage1 Cover Type	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
34 45112034-Cut	12.0	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	75	Harvest	Clearcut with Reserves	Lowland Deciduous, Mixed Coniferous

Limiting Factor and Comment: 2G: Blocked by physical obstacle

Rev Cmnt: Stand is factor limited because it is inaccessible.

Rev Spec: Clearcut with reserves following the retention guideline.

Next Steps: Follow-up treatment with regeneration survey according to work instruction. Acceptable regeneration is aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.

No Treatment Reason

**Total Treatment
Acreage Proposed: 12.0**



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
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.
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.