



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63119

Entry Year 2017

Acreage: 3,487

County Missaukee

Management Area: Manistee River Valley

Revision Date: 2015-06-12

Stand Examiner: Joe Ventimiglia

Legal Description:

T24N R7W: Sections 4, 5, 8, 9, 16, 17

Identified Planning Goals:

Manage compartment for a mix of timber, wildlife, recreational and ecological concerns. Management plan and practiced silviculture methods will be implemented within management activities.

Soil and topography:

Soils are composed of rubicon sands. Site quality increases nearer the Manistee River and Hopkins and Ham Creeks. The lowest site indices are within the oak-pine barrens restoration area.

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

A large portion of this compartment was formerly owned by Consumers Power and was acquired by the State of Michigan. Much of the former Consumers land was along the Manistee River. Overall, the compartment is mostly solid state ownership. Desirable parcels for acquisition would be the 80 acre parcel in the southeast corner of the compartment.

Unique Natural Features:

This compartment contains oak-pine barrens and northern wet meadow communities. Evidence of wood turtle has been identified and potential exists for Blanding's turtle in the Hopkins and Ham Creeks. Potential exists for massasauga and prairie warbler in the upland brush areas.

Archeological, Historical, and Cultural Features:

Numerous Native American archeological sites have been documented. The high banks area bordering the Manistee River was used as log rollaways in the late 1800's pine logging era.

Special Management Designations or Considerations:

A large portion of this compartment is being managed as shrub and herbaceous open land through the use of prescribed fire. Future goals for this open land are to maintain a fire return interval that enhances wildlife habitat, blueberry production, and vegetation associated with barrens. The Hopkins Burn Units were burned actively in the last 20 years with plans to continue such burning as funding and weather allows. The treatment map lays out the plans for the burns including adding a new burn unit. (Stand 48)

Watershed and Fisheries Considerations:

The mainstream of the Manistee, Hopkins Creek and Ham Creek flow through this compartment. Extensive past beaver activity has been documented along Ham and Hopkins Creeks. Occupied dens and some blockage were identified near the north edge of the compartment. Both Ham and Hopkins Creeks are designated tributaries under the Upper Manistee River State Natural River designation. The Upper Manistee River Natural River Plan has very specific native vegetation buffers for the mainstream and tributaries (pages 40-42, inclusive.) The mainstream buffer is 175 feet, except if the proposed treatment meets one of the eight criteria. On Ham Creek the buffer would be 100 feet, if the slope is 0-10%; 115 feet, if the slope is 11-20%; 135 feet, if the slope is 21-32%; and 155 feet, if the slope is 33+%. On Hopkins Creek, in addition to the above standards, there is a 100foot no cut zone, unless it meets one of the (a) through (h) criteria in the plan.

Wildlife Habitat Considerations:

This compartment offers a wide variety of valuable wildlife habitats. The river and creek corridors are valuable deer winter areas. They provide excellent habitat and travel areas for bear and bobcat. The management objective for the central (approximately) 700 acres of the area in proximity to the campground is to maintain an open grassland that provides blueberry and fruit bearing shrubs for songbirds and turkey. The surrounding oak, aspen, and pine areas provide adjacent food and cover for many different species. By maintaining this variety of cover types and age classes, this compartment can continue to provide valuable habitats to deer, ruffed grouse, woodcock, turkey, bear, bobcat, and numerous songbirds. Featured species of special interest include deer and bear. Timber sale specifications to benefit wildlife (where applicable) will include brush pile creation along lowland edges, protection of mast-bearing wildlife shrubs and ironwood, protection of standing dead snags, and creation of drumming logs (1-2 per acre) and woody debris (tops or whole trees) in aspen cuts.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel, post-glacial alluvium, and minor coarse-textured till. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan Formation is quarried for gypsum in other areas of the state. Gravel pits are not located in the immediate area, but potential is good, especially the upland areas. State Pit 467 is located approximately three miles east (Section 18, T24N R7W). The northern portion of the compartment is located on the edge of Springfield Field. The field has produced from gas the Traverse Limestone. The bulk of the State mineral rights in the compartment are currently leased for oil and gas development.

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. As future timber sales occur logging roads and old State forest two tracks may be blocked to vehicle access as needed.

Survey Needs:

This compartment is almost solid state ownership. No surveying is needed at this time. The compartment boundary along the west edge of section 5 follows a bluff line heading north. This property line is very irregular and does not head straight north.

Recreational Facilities and Opportunities:

There are numerous recreational opportunities within this compartment including: Hopkins Creek rustic & designated equestrian campground, the Shore to Shore riding and hiking trail, the North Missaukee ORV trail, the Mis-Kal ORV route, Michigan Cross Country Cycle Trail (MCCCT), and Snowmobile trail #6. Proposed timber treatments negatively impacting campers should be taken into consideration. Providing a tree'd buffer adjacent to campsites, and harvesting during the winter months are two potential mitigating practices. Trail protection specifications should be included in any timber sale potentially impacting trails. Specifically, appropriate measures identified in DNR Policy & Procedures "32.22XX" (Best Management Practices for Forest and Wildlife Management Adjacent to Recreational Trails) should be taken into consideration when setting up timber sales. Furthermore, guidance provided in the "Logging Operations and Horse Events on State Lands" document should be followed for timber treatments impacting the Shore to Shore riding and hiking trail. There are numerous fishing and hunting opportunities and dispersed camping is very common in this compartment. Blueberry picking is popular within this compartment. (T.M.N. 12/16/14)

Fire Protection:

The areas of red pine provide the potential for large fire growth. There are some urban area concerns within the compartment. The potential for poor access exists with the varying terrain within the compartment. An area near Hopkins Creek Campground is managed for blueberries by prescribed fire.

Additional Compartment Information:

The following reports from the Inventory are attached:

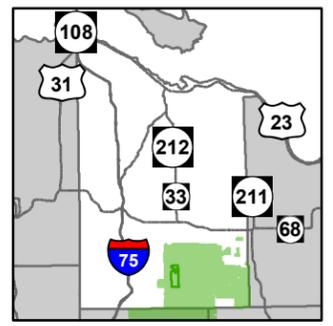
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

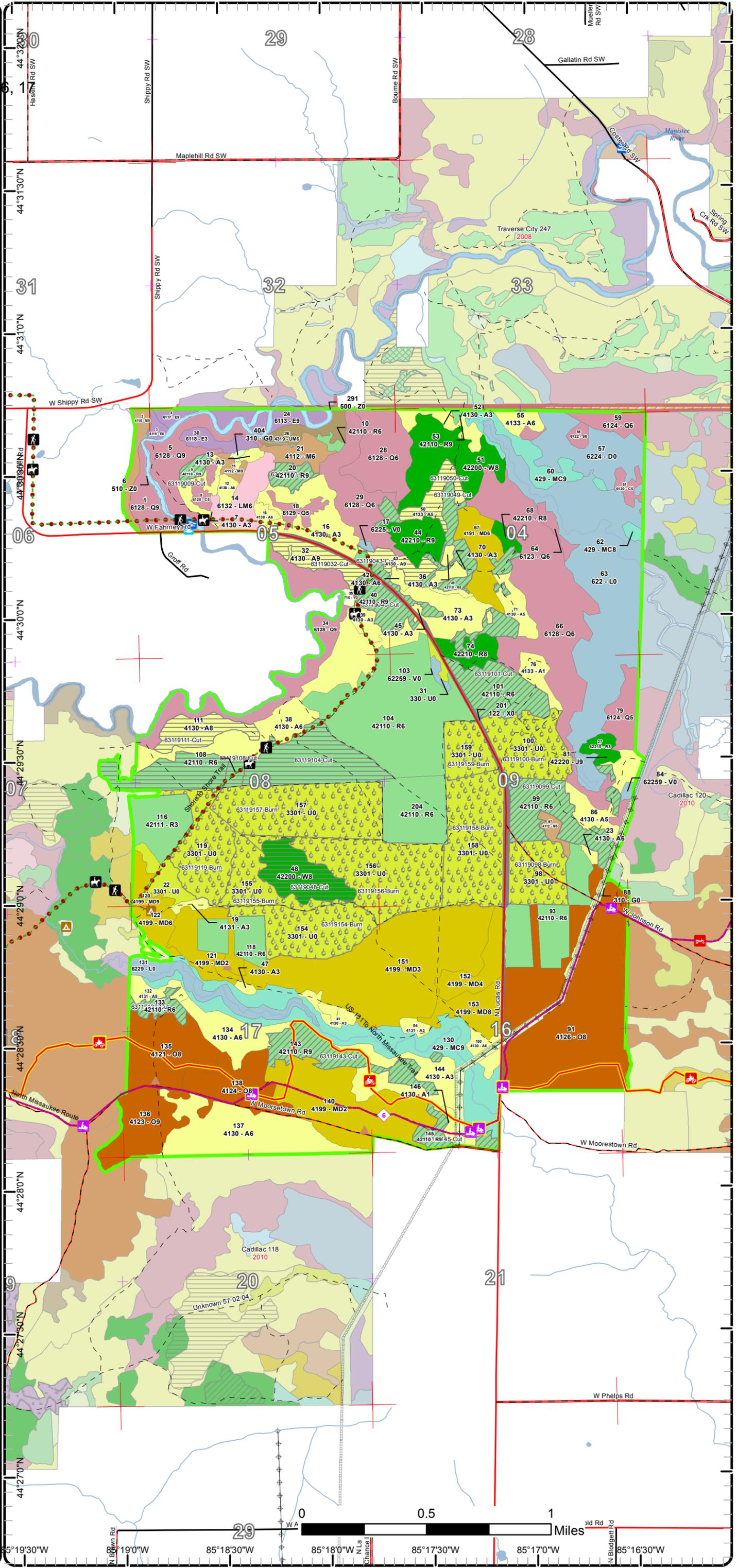
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments

Compartment: 119
 T24N, R08W, Sec. 04, 05, 08, 09, 16, 17
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Manistee River Valley
 YOE: 2017
 Acres: 3487 GIS Calculated
 Examiner: Joe Ventimiglia
 Map Revised: 7/7/2015
 Map Phase: Pre-Review

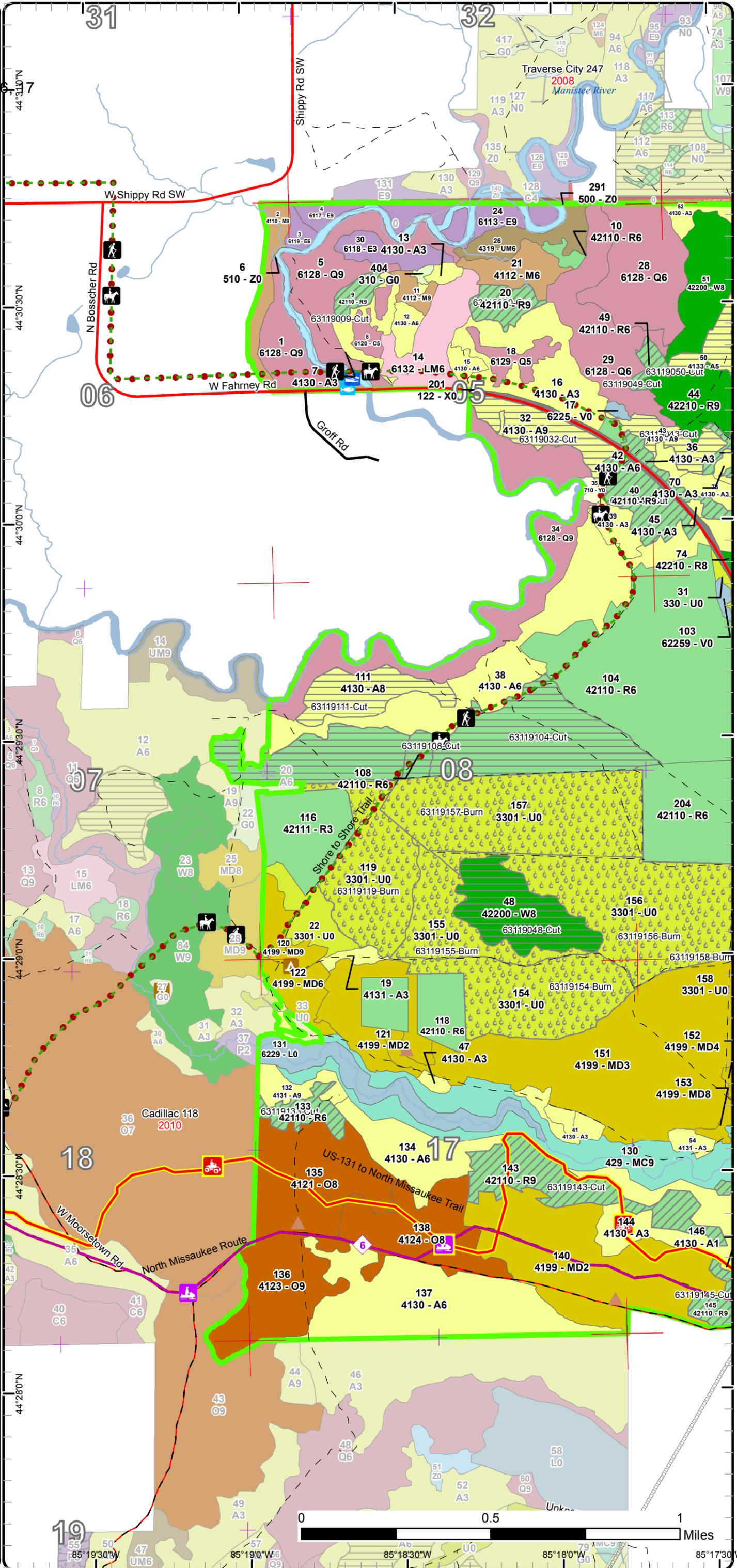
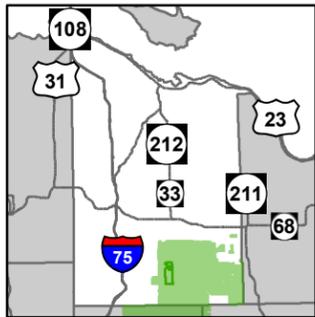


- ✚ Remonumented Section Corner
- Miris Corners
- County Paved Roads
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- County Gravel Roads
- - Poor Dirt Roads
- - County Poor Dirt Roads
- ▲ Berms
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- Designated Snowmobile Trails
- Designated MCCCT Trails
- Rivers
- Lakes
- Pipeline
- ⚡ Powerline
- Treatments**
- Clearcut (w/Reserves)
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- Forest Covertypes**
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Covertypes**
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand/Soil



Cover Type & Treatments

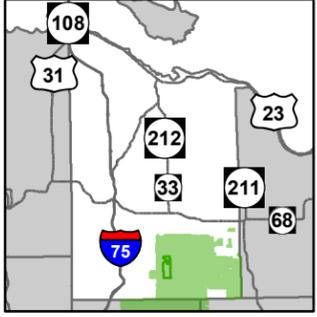
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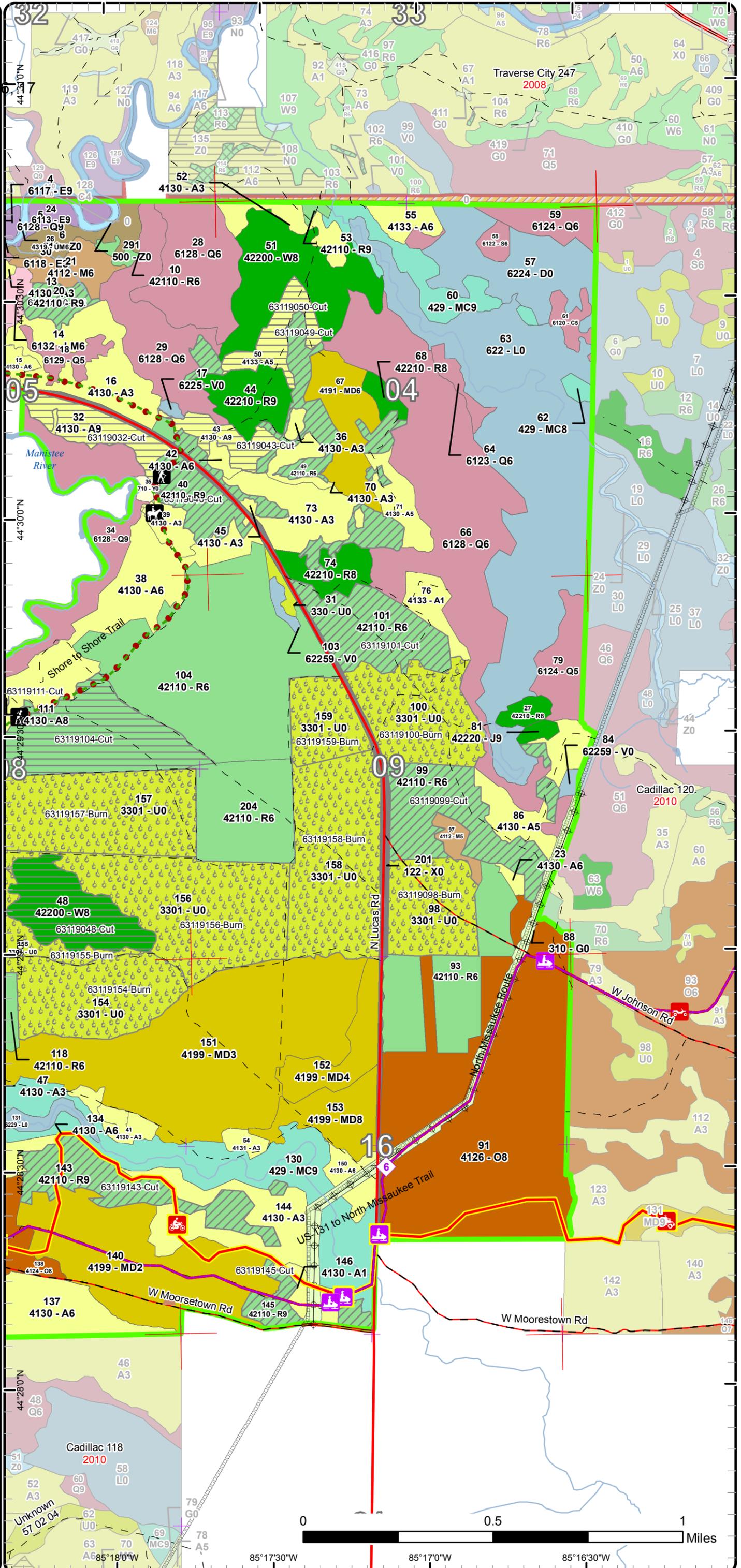
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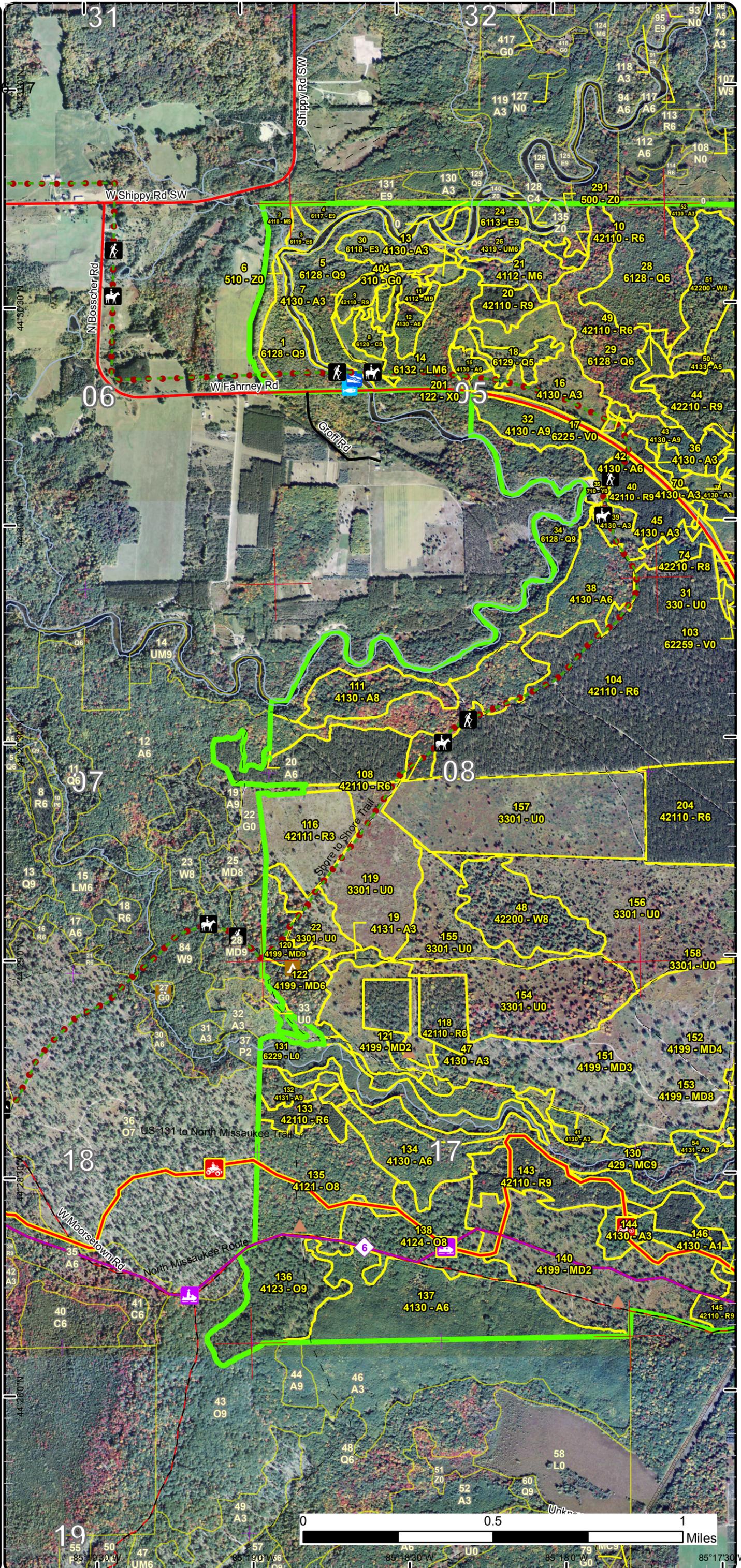
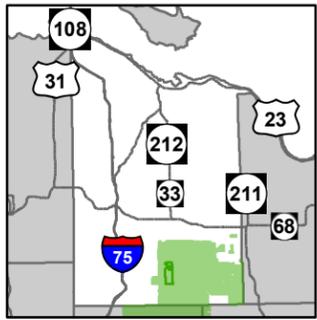
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85°17'30"W 85°17'0"W 85°16'30"W

Stand Boundary Map

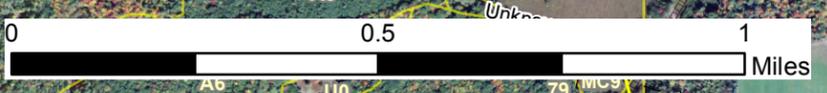
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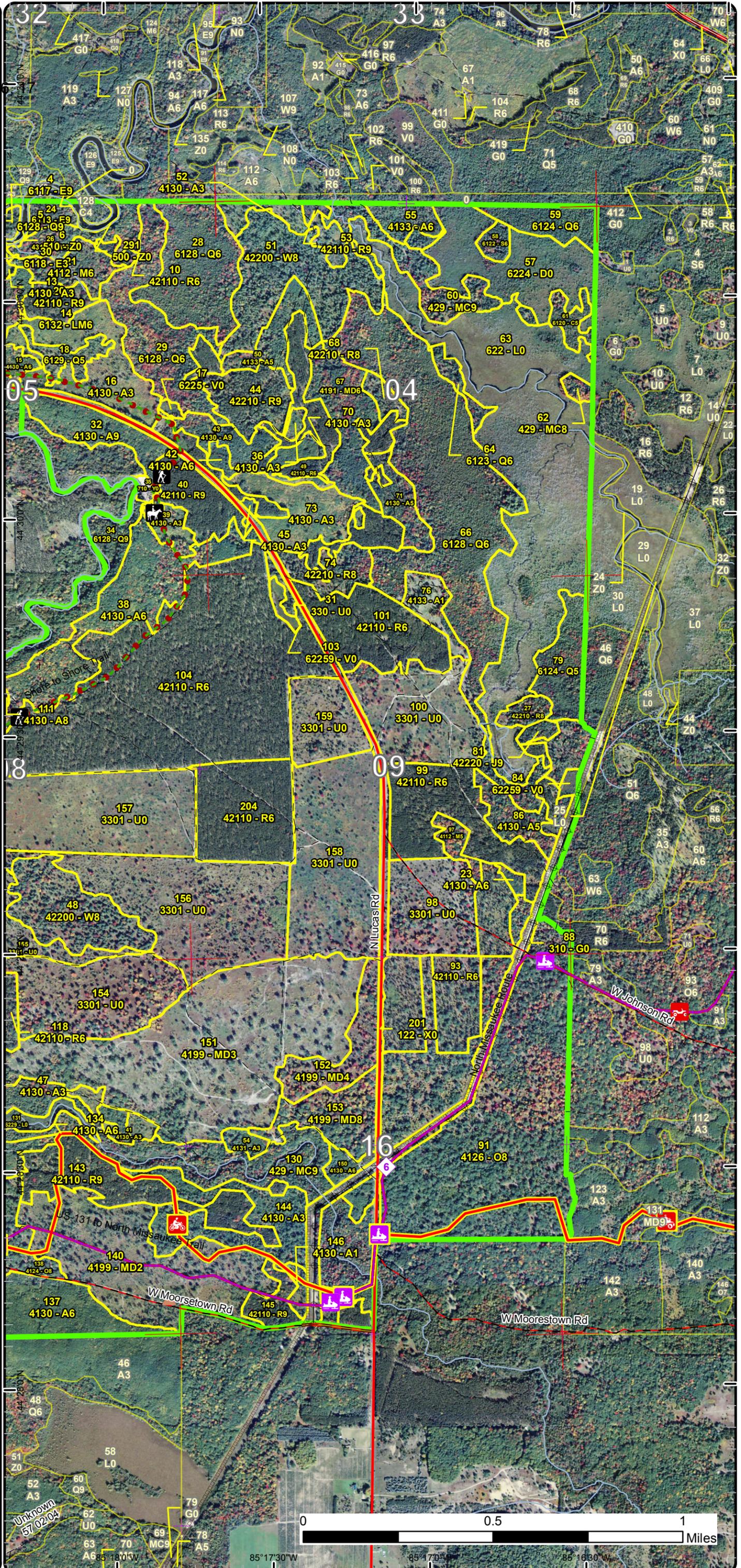
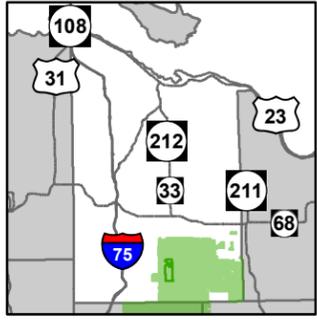
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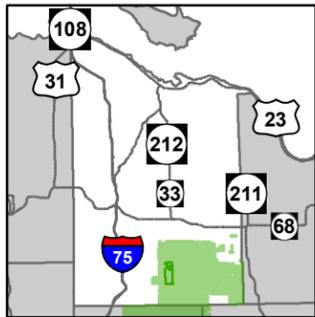
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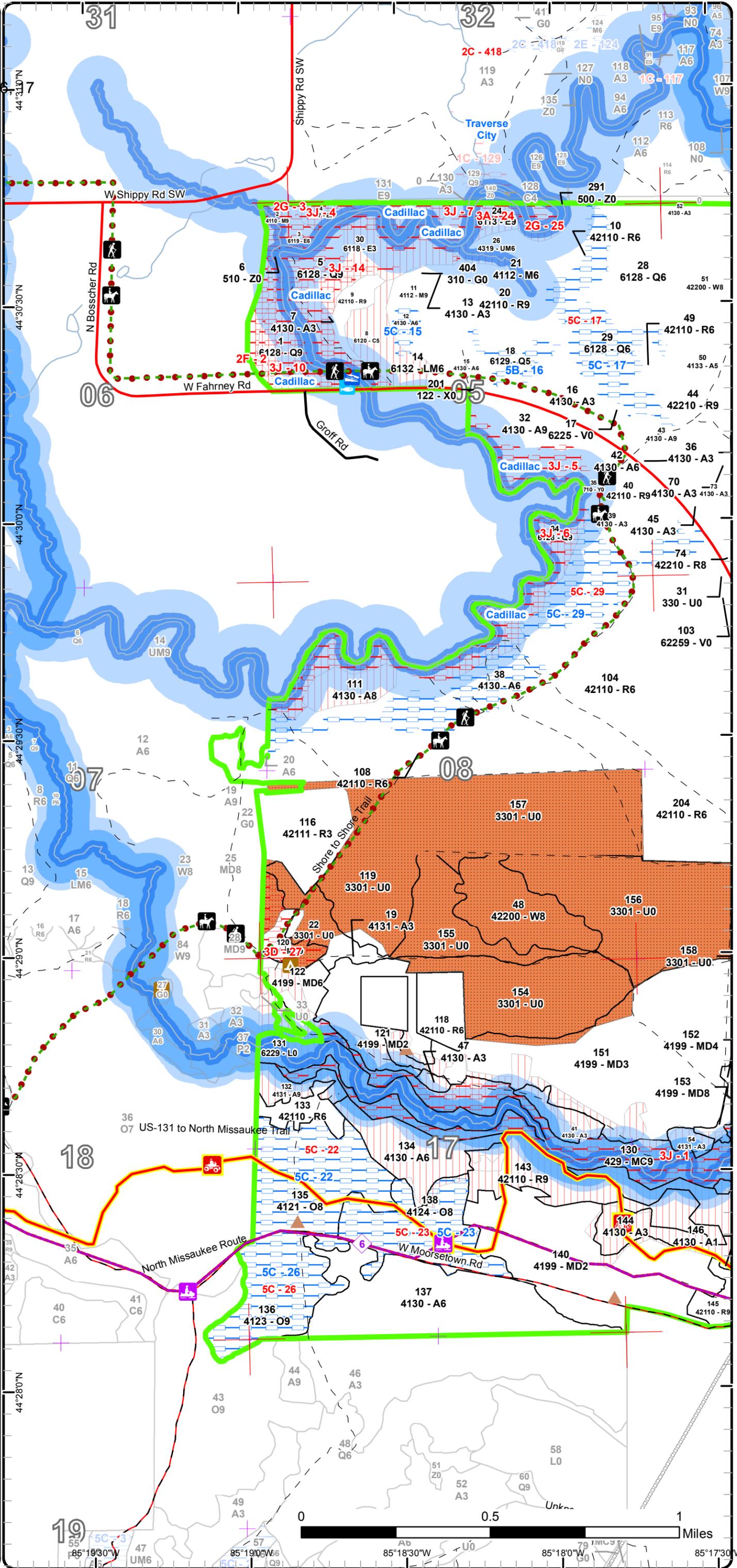
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Special Conservation Areas & Site Conditions Map

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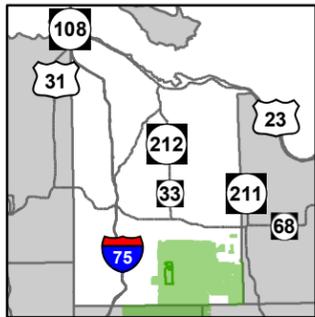


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- SCA Recommendation**
- ▨ SCA
- Site Condition**
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints**
- 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
- 2E: Road needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors**
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Potential old growth / biodiversity
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- Special Conservation Areas**
- ▨ Natural Rivers Vegetative Buffer
- ▨ Natural Rivers Zoning District
- ▨ Cold Water Streams
- ▨ Cold Water Lakes
- ▨ High Priority Trout Stream Buffer
- ▨ Other Habitat Area



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SCA Recommendation

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Available Factors W/ Constraints

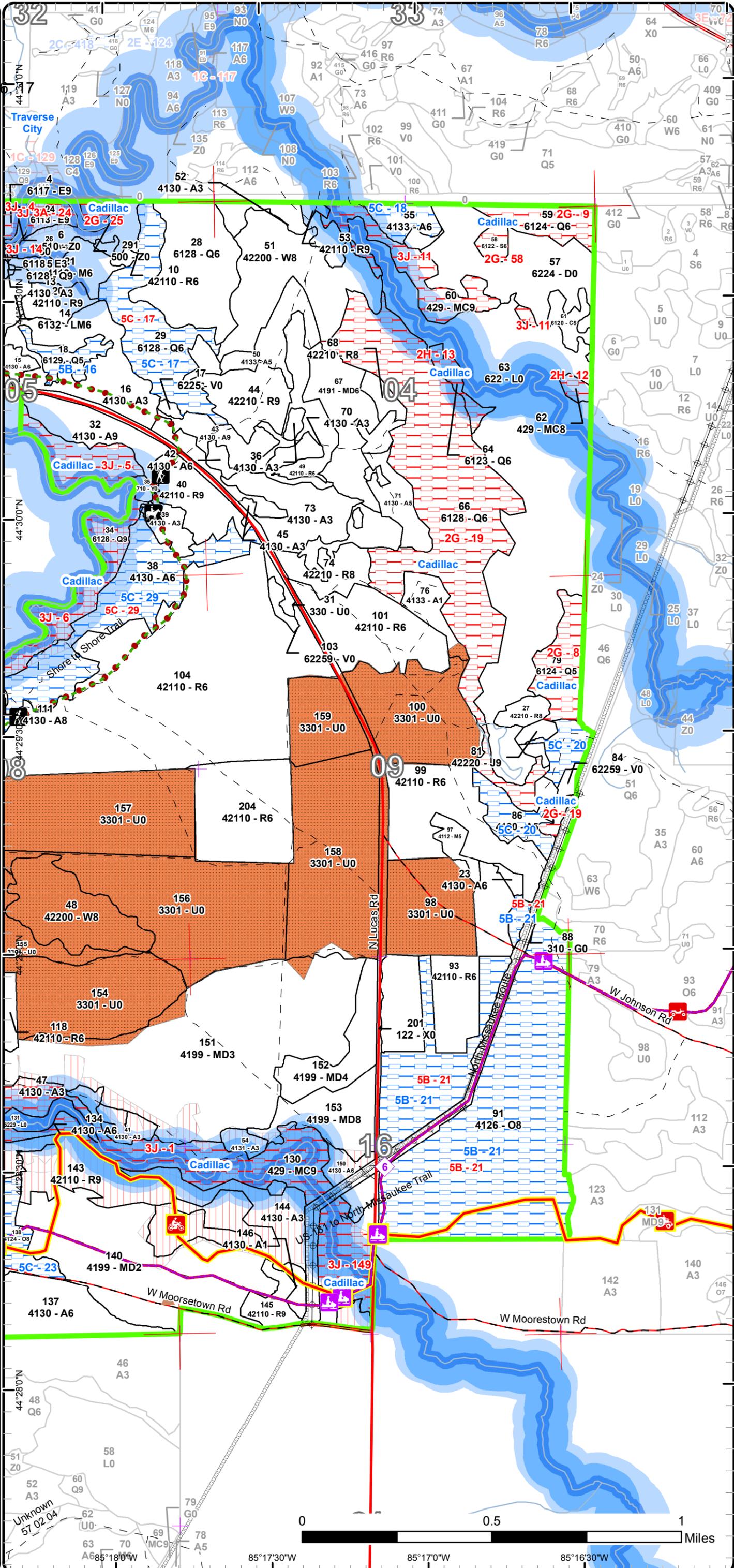
- 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
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Unavailable Factors

- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Potential old growth / biodiversity
- 3E: Easement / lease, non-military (e.g. - Consumers Power red pine, etc)
- 3J: Water quality / BMPs (stream, river, or lake)

Special Conservation Areas

- ▨ Natural Rivers Vegetative Buffer
- ▨ Natural Rivers Zoning District
- ▨ Cold Water Streams
- ▨ Cold Water Lakes
- ▨ High Priority Trout Stream Buffer
- ▨ Other Habitat Area



Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Compartment 119 Year of Entry 2017

Joe Ventimiglia : Examiner



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	120	47	125	0	67	120	23	0	0	0	0	0	0	0	0	0	0	502
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	0	0	0	7	6	0	0	0	0	0	0	13
Herbaceous Openland	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Jack Pine	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Low-Density Trees	518	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	518
Lowland Conifers	0	0	0	0	0	0	0	20	21	0	184	42	0	0	0	0	0	127	394
Lowland Deciduous	0	11	0	0	0	0	0	0	0	4	0	8	0	0	0	0	0	13	36
Lowland Mixed Forest	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Shrub	205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	205
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Mixed Upland Deciduous	0	255	0	0	0	0	41	0	0	13	0	0	0	0	0	0	0	75	384
Northern Hardwood	0	0	0	0	0	0	20	0	0	0	5	0	0	0	0	0	0	12	37
Oak	0	0	0	0	0	0	0	0	0	142	0	198	0	0	0	0	0	0	340
Red Pine	0	32	0	0	0	3	584	11	0	0	0	0	0	0	0	0	0	40	670
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Treed Bog	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	121	121
Upland Mixed Forest	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	14
Urban	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	88
Total	856	418	47	125	0	70	805	57	21	159	196	254	0	0	0	0	0	482	3490



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 119

Total Compartment Acres: 3,487

Commercial Harvest - 0
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 501

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	71	0	0	0	0	0	0	0	0	71
Red Pine	101	0	0	0	0	231	0	0	0	332
White Pine	37	0	0	0	0	0	0	0	0	37
Total	209	0	0	0	0	231	0	0	0	440



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	Approval Status
9	63119009-Cut	5.7	42110 - Planted Red Pine	Sawtimber Well	60	111-140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Third thin stand. Mark for quality pushing to allow the best quality stem to grow into poles and quality logs.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Lump in with other pine sales to make it more marketable. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

20	63119020-Cut	9.7	42110 - Planted Red Pine	Sawtimber Well	59	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Third thin, make for quality leaving the best stems to remain for future poles and quality logs.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Lump in with adjacent pine sales to make more marketable. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

32	63119032-Cut	19.7	4130 - Aspen	Sawtimber Well	52	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Final harvest, leave all pine. As well leave one green ringed island 3 to 5 % of total acreage. Note treatment will avoid drainage ravine in middle of stand(too steep). Treatment shape reflects this.

Specs:

Next Step
Treatments:

Acceptable Mostly aspen and mixed conifer.
Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

40	63119040-Cut	25.7	42110 - Planted Red Pine	Sawtimber Well	58	111-140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Second thin pine plantation. Mark to cut poor form, suppressed, and doubles. Leave quality stems to grow. Aim for residual BA of 90 to 110.

Specs:

Next Step
Treatments:

Acceptable Not regeneration cut.
Regen:

Other Note treatment boundary avoids area of stunted pine in northwest. Avoid with red line. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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	Approval Status
43	63119043-Cut	12.5	4130 - Aspen	Sawtimber Well	51	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Two-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Final harvest leave all pine over 10 inches in diameter. Leave pine under 4 as well.

Specs:

Next Step

Treatments:

Acceptable Aspen and white pine.

Regen:

Other Manage for mixed pine and aspen. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

48	63119048-Cut	37.0	42200 - Natural White Pine	Sawtimber Medium	74	1-50	Harvest	Clearcut	320 - Upland Shrub		Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest, require chipping. No retention to facilitate post harvest burn and management objective. (2 inch and up spec) Leave three one

Specs: acre retention island to leave some structural and species diversity.

Next Step

Treatments:

Acceptable Non forested objective. Upland opening objective.

Regen:

Other Burn following harvest, will be lumped in with all other Hopkins burn units. Scattered remnant pine can be burned under and remain through the

Comment: burn cycles. Old next step comments:

Proposed Start Date: 1 /30/2015

49	63119049-Cut	30.1	42110 - Planted Red Pine	Poletimber Well	59	141- 170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Second thin stand. Take out lower quality stems, marking for quality stems to remain for future. Leave residual BA no lower then 100 to 120.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

50	63119050-Cut	15.7	4133 - Aspen, Mixed Pine	Poletimber Medium	45	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest leave all pine as well as green ring a few aspen as future snags.

Specs:

Next Step

Treatments:

Acceptable Mix of aspen and pine.

Regen:

Other Lump in with aspen to south. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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	Approval Status
98	63119098- Burn	37.2	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	Burn	Opening	320 - Upland Shrub		Proposal

Habitat Cut: Yes**Site Condition:**

Prescription Part of Hopkins Creek burn area, plans to be burned in 2015.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Bruce Tower (Baldwin 50) is in charge of the burn plans and wildlife is funding the burn. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

99	63119099-Cut	49.4	42110 - Planted Red Pine	Poletimber Well	59	111- 140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Second thin pine plantation. Mark doubles and poor form as well as suppressed stem. Improve stand quality with harvest.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

100	63119100- Burn	47.6	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	Burn	Opening	320 - Upland Shrub		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Plans to be burned again in 2017? Was just burned in 2014.

Specs:

Next Step

Treatments:

Acceptable Warm season grasses and mixed open grown trees.

Regen:

Other Bruce Tower(Baldwin 50) is in charge of the burn plan, while Wildlife funds the burn. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

101	63119101-Cut	49.6	42110 - Planted Red Pine	Poletimber Well	59	141- 170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Second thin. Mark to cut poor form, suppressed and doubles. Leave quality stems behind.

Specs:

Next Step

Treatments:

Acceptable Not regeneration cut.

Regen:

Other Good landing areas in Hopkins burn units. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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	Approval Status
104	63119104-Cut	95.8	42110 - Planted Red Pine	Poletimber Well	59	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Final Harvest no retention. Replant to red pine. Require chipping .

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Red Pine

Regen:

Other Stand was chosen to be final harvested to meet the MA guidance on red pine restart acres. Stand is fairly low quality and would have likely never produced poles. Only western half of stand is being treated. Old next step comments:

Proposed Start Date: 10/1 /2016

108	63119108-Cut	5.4	42110 - Planted Red Pine	Poletimber Well	59	171- 200	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final Harvest and replant to red pine. No retention to facilitate planting. Stand will be cut along with stand 104.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Red Pine

Regen:

Other Stand was chosen for poor quality and to meet MA guidance on red pine restart acres. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

111	63119111-Cut	22.9	4130 - Aspen	Sawtimber Medium	68	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest buffer river appropriately and keep sale off bluff in south side of stand. Leave all oak and white pine.

Specs:Next StepTreatments:

Acceptable Aspen as well as white pine, maple and oak. Expecting mostly aspen.

Regen:

Other Retention will be in the form of oak, white pine and the acres that cannot be reached on the side slope of the bluff. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

119	63119119- Burn	50.9	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	Burn	Opening	320 - Upland Shrub		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Part of Hopkins Creek burn area, plans to be burned in 2015.

Specs:Next StepTreatments:

Acceptable Warm season grasses and mixed open grown trees.

Regen:

Other Bruce Tower (Baldwin 50 is in charge of burn plan) Wildlife funded burn. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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	Approval Status
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133	63119133-Cut	10.3	42110 - Planted Red Pine	Poletimber Well	59	141- 170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Second thin red pine. Mark to cut poorer quality and suppressed stems. Leave quality stems behind, for future. Leave residual BA of 100 to 120.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

143	63119143-Cut	38.3	42110 - Planted Red Pine	Sawtimber Well	59	111- 140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Second thin red pine. Mark to cut poorer quality and suppressed stems. Leave quality stems behind, for future. Leave residual BA of 100 to 120.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

145	63119145-Cut	12.4	42110 - Planted Red Pine	Sawtimber Well	59	141- 170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Second thin red pine plantation. Mark to cut poor form, and lower quality tree. Mark down to 100 to 120 BA.
Specs:

Next Step
Treatments:

Acceptable Not regeneration cut at this time
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

154	63119154- Burn	56.6	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	Burn	Opening	320 - Upland Shrub		Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Part of Hopkins Creek burn area, plans to be burned in 2016.
Specs:

Next Step
Treatments:

Acceptable Warm season grasses and mixed open grown trees.
Regen:

Other Bruce Tower is in charge of the burn plan, while Wildlife funds the burn. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



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	Approval Status
155	63119155- Burn	30.7	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	Burn	Opening	320 - Upland Shrub		Proposal
Habitat Cut: Yes		Site Condition:									
<u>Prescription</u> Part of Hopkins Creek burn area, plans to be burned in 2016.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Warm season grasses and open grown trees scattered.											
<u>Regen:</u>											
<u>Other</u> Bruce Tower(Baldwin 50) is in charge of burn and wildlife division is funding the burn. Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
156	63119156- Burn	86.7	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	Burn	Opening	320 - Upland Shrub		Proposal
Habitat Cut: Yes		Site Condition:									
<u>Prescription</u> Part of Hopkins Creek burn area, plans to be burned in 2016.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Warm season grasses and mixed open grown trees.											
<u>Regen:</u>											
<u>Other</u> Bruce Tower (Baldwin 50 oversees burn plan) Wildlife division funds the burn. Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
157	63119157- Burn	87.3	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	Burn	Opening	320 - Upland Shrub		Proposal
Habitat Cut: Yes		Site Condition:									
<u>Prescription</u> Part of Hopkins Creek burn area, plans to be burned in 2017? Was just burned in 2014.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Warm Season grasses and mixed open grown trees.											
<u>Regen:</u>											
<u>Other</u> Bruce Tower, Baldwin 50 is in charge of the burn plan while Wildlife funds the burn. Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
158	63119158- Burn	78.8	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	Burn	Opening	320 - Upland Shrub		Proposal
Habitat Cut: Yes		Site Condition:									
<u>Prescription</u> Part of Hopkins Creek burn area, plans to be burned in 2017?											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Warm season grasses and scattered open grown trees.											
<u>Regen:</u>											
<u>Other</u> Bruce Tower is in charge of the burn plan, with wildlife funding the burn. Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											



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	Approval Status
159	63119159- Burn	24.6	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	Burn	Opening	320 - Upland Shrub		Proposal

Habitat Cut: Yes

Site Condition:

Prescription Part of the Hopkins Creek Burn area. Planned to be burned in 2015.

Specs:

Next Step

Treatments:

Acceptable Mixed warm season grasses and mixed open grown trees.

Regen:

Other Bruce Tower(Baldwin 50 is in charge of managing the burn plane) Wildlife funded burns. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment
Acreage Proposed: 940.7**

Report 5 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 119
Year of Entry: 2017

Dominant Site Conditions

	2F	2G	2H	3A	3D	3J	5B	5C
Aspen								111
Bog								
Cedar								
Herbaceous Openland								
Jack Pine								
Low-Density Trees								
Lowland Conifers		173	6			119	9	42
Lowland Deciduous		6		4		13		
Lowland Mixed Forest								
Lowland Shrub								
Lowland Spruce/Fir		4						
Mixed Upland Deciduous					13	1		
Northern Hardwood	12							
Oak							198	142
Red Pine						0		
Sand, Soil								
Treed Bog								
Upland Conifers			3			115		
Upland Mixed Forest								
Urban								
Water								
White Pine								
Total Forested Acres	12	184	9	4	13	248	207	295
Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	72	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments: Vegetated buffer along Hopkins Creek. Unavailable for management.							

Report 5 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 119
Year of Entry: 2017

2	Unavailable	2F: Too steep	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Too steep and close to river. Stand not able to be treated commercially.							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 119
Year of Entry: 2017

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: Between proximity to creek and small creek that blocks access to southern half of stand.							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 119
Year of Entry: 2017

14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Some areas inland have potential for future commercial harvest but overall too wet and close to river to warrant management.							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was cut last entry only mature cedar and hemlock were left. Aspen and maple regeneration coming in good. Leave long lived conifer over story.							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Leave at this time, stand has potential for lowland management in the future but major concerns over wet nature and regeneration concerns post harvest.							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is small part of larger stand to north in TC unit. Stand should be managed with TC compartment to north.							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	139	5A: Not able to obtain desirable regeneration	3H: Deer Wintering Areas	Unspecified	Unspecified
Comments: Large complex stand, in general large commercial management of this stand may not be warranted do to above site conditions.							

Report 5 – Site Conditions

Cadillac Mgt. Unit

Joe Ventimiglia : Examiner

Compartment: 119

Year of Entry: 2017

20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5B: Maintain for regeneration purposes	198	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand has been recently treated. Scattered large oak left for regeneration purposes. Do not enter stand, as a result of damage to oak understory. Stand can be entered in 40 plus years once oak gets more mature.							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	56	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	3A: Potential old growth / biodiversity	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 119
Year of Entry: 2017

26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	3D: Recreational / Scenic values	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hopkins Creek campground. Only management that will take place is removal of hazard trees as Parks division sees fit over time.							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	75	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cut next YOE, allow stand to put on a little more growth and will keep a chunk of aspen for next YOE.							
58	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
149	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



Report 6 – 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
Hopkins Creek	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	575
Comments				

**Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	21.2	140	81-110	Lowland conifer dominated by cedar along the Manistee River. Boat access managed site in the southeast corner of stand. Many seeps running in stand.
2	4110 - Sugar Maple Association	Sawtimber Well	12.3	102	51-80	Side slope of hardwood, very steep terrain. Private corn field to west and lowland cedar swamp to east. Too steep to manage commercially.
3	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	3.7	89	81-110	Floodplain of lowland hardwood and aspen.
4	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	13.0	102	51-80	Lowland land locked sliver of lowland hardwood and conifer along river.
5	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	36.3	99	51-80	Lowland conifer complex with pockets of upland aspen and a few openings along the river. Road goes all the way along west border of stand. Old consumers lease cabin has been removed in 2013. No evidence left of old cabin along the river.
7	4130 - Aspen	Sapling Well	8.9	5	Immature	Stand was final harvested in 2010 with green ringed trees left as well as any cedar and hemlock. Came back well to aspen.
8	6120 - Lowland Cedar	Poletimber Medium	6.3	102	51-80	Stand was cut in 2010, with all cedar and hemlock left as well as some green marked trees. Cedar in hemlock with aspen in understory.
9	42110 - Planted Red Pine	Sawtimber Well	5.7	60	111-140	Stand third row thinned two entries ago and second thinned in 2010. Good quality stand.
10	42110 - Planted Red Pine	Poletimber Well	2.6	41	111-140	Sparse never thinned red pine plantation overtopped by maple in spots. Very difficult access. Pine looking pretty stubby and rough.
11	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.8	95	51-80	Stand was marked thinning in 2010. Small sliver of hardwood. Decent quality hardwood.
12	4130 - Aspen	Poletimber Well	5.2	49	81-110	Small stand of pole- log aspen with red maple and white pine mixed in.
13	4130 - Aspen	Sapling Well	3.0	5	Immature	Stand was final harvested in 2010, with all cedar and hemlock left.
14	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	25.8	50	81-110	Variable lowland conifer stand although pockets of aspen and red maple scattered throughout as well. Very mixed stand. Hummocky ground but judging from the amount of aspen I do believe it could support commercial harvesting activity under the right conditions. Appears stand was cut some years ago judging from the pockets of pole-log aspen in stand.
15	4130 - Aspen	Poletimber Well	4.1	52	81-110	Small pocket of mature aspen and mixed conifer. Aspen to east was cut last YOY.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4130 - Aspen	Sapling Well	36.6	5	Immature	Stand was final harvested in 2010, with all cedar and hemlock left as well as some green marked trees. Buffer strip of mature aspen and pine left along Lucas road.
18	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	8.7	99	1-50	Stand was cut in 2010, with all cedar and hemlock left as well as some green marked trees. Two aged stand with hemlock and cedar scattered in over story and aspen flush from 2010 sale in understory.
19	4131 - Aspen, Oak	Sapling Well	3.6	20	Immature	Small aspen stand with mix of oak. Some larger oak on the edges were left.
20	42110 - Planted Red Pine	Sawtimber Well	9.7	59	141-170	Stand was 3rd row thinned between 1989-92, and was marked second thinning in 2010. Good quality stand which is slightly isolated.
21	4112 - Maple, Beech, Cherry Association	Poletimber Well	13.8	52	81-110	Young hardwood stand with mostly cherry and red maple regeneration. Isolated stand small drainage running along stand on the north and south. Only one spot in southeast to cross into stand. Semi open in spots. Still a young stand.
23	4130 - Aspen	Poletimber Well	2.0	40	51-80	Small stand of pole aspen.
24	6113 - Lowland Maple	Sawtimber Well	8.3	102	81-110	Two separate lowland hardwood stands off the bluff and within the natural rivers buffers. Cedar along the edges of the river.
26	4319 - Mixed Upland Forest	Poletimber Well	14.2	55	81-110	Variable mixed upland stand with failed red pine plantations scattered in stand with red maple, aspen and white pine all mixed as well. Stand has log white pine with the rest being pole class. Very steep bluff goes right down to river. Large ravine with creek isolates stand in spots.
27	42210 - Natural Red Pine	Sawtimber Medium	5.5	73	51-80	Natural red pine stand on isolated upland pocket. Variable size class pine but mostly log red pine. Open to west end of stand.
28	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	43.4	65	51-80	Large lowland conifer complex, with some lowland hardwood and aspen on the north and west edges.
29	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	42.1	103	51-80	Cedar mixed with balsam red maple, black spruce, and tamarack to the west. Black ash overtopping cedar to the east. Overall lowland stand although it has its pockets when it looks like equipment may hold up?
30	6118 - Lowland Deciduous with Cedar	Sapling Well	10.6	5	Immature	Stand was habitat cut by wildlife division in winter of 2010. Stand was just cut and left, timber was not utilized. Cedar was left. FTP# W63-689. Was too wet and down the bank to do commercially at that time. Cedar is patchy some pockets being wide open aspen and maple regeneration.
32	4130 - Aspen	Sawtimber Well	20.2	52	81-110	Good quality aspen on south side of Lucas road. Small sliver of red pine in northwest border. Stand is two level topography Also steep creek drainage splits stand north and south.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	62.2	102	51-80	Transitions from a white pine stand upslope into a mixed cedar, balsam, black ash etc. Q-type near river. All of it is off the slope and within the Manistee river buffer. Upslope portions of the stand are upland with all bottom slope portions being lowland near river.
36	4130 - Aspen	Sapling Well	2.1	7	Immature	Stand was final harvested in 2008.
38	4130 - Aspen	Poletimber Well	74.5	53	51-80	Variable mostly pole aspen stand with pockets of larger diameter log aspen. Low to medium quality aspen for the most part. Large stand with mostly level terrain.
39	4130 - Aspen	Sapling Well	7.4	7	Immature	Stand was final harvested in 2008, with all oak left.
40	42110 - Planted Red Pine	Sawtimber Well	27.6	58	111-140	Stand was marked second thinning in 2008 and was third row thinned some years before that. Good quality and height for the most part. Scattered pockets of red maple re
41	4130 - Aspen	Sapling Well	6.8	5	Immature	Stand was final harvested in 2010, with all white pine under 4 inches dbh left at a time. Came back well to aspen and red maple.
42	4130 - Aspen	Poletimber Well	2.9	21	Immature	Young pole aspen stand, with a few pine mixed in.
43	4130 - Aspen	Sawtimber Well	12.5	51	81-110	Variable mature aspen stand with white pine component in over story and understory.
44	42210 - Natural Red Pine	Sawtimber Well	20.5	75	51-80	Nice natural red pine stand with pockets of white pine as well. Stand was marked thinning in 2007, with all maple, aspen, jack pine, and fir spec cut. Pockets of aspen regeneration were created from this cut with limited understory under the heavy pine cover.
45	4130 - Aspen	Sapling Well	1.0	19	Immature	Small clone of solid aspen.
47	4130 - Aspen	Sapling Well	3.7	12	Immature	Two separate aspen stands, with some oak and white pine mixed in. Nearly blend in as a result of all the recent cutting in this area.
48	42200 - Natural White Pine	Sawtimber Medium	37.0	74	1-50	Natural white pine stand which is being added to the surrounding "Hopkins Creek Burn" area. Plan on leaving a couple remnant white pine and red pine as future legacy pine. Stand is planned to be burned in rotation with surrounding units. Burns will be planned by wildlife and fire division.
49	42110 - Planted Red Pine	Poletimber Well	30.1	59	141-170	Stand was third row thinned in 2008, all other trees besides oak mixed in the plantation were also cut at this time.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
50	4133 - Aspen, Mixed Pine	Poletimber Medium	15.7	45	51-80	Rough looking aspen stand with white pine component. Appears to be a poor site for aspen and a better site for pine. Aspen gets a little better to east.
51	42200 - Natural White Pine	Sawtimber Medium	50.9	85	1-50	Stand was thinned in 2010, with all aspen, maple, and jack pine cut as well. Was part of sale 630040801. White pine over story with full aspen and maple flush of growth in understory from 2010 cut.
52	4130 - Aspen	Sapling Well	12.5	5	Immature	Stand was final harvested with reserves in 2010. All cedar, oak, hemlock and cherry were left along with white pine under 10 inches dbh. Sale continues north into Kalkaska unit, was all part of the same sale. Continue to manage together in future rotation.
53	42110 - Planted Red Pine	Sawtimber Well	1.7	55	81-110	Stand was 3rd row thin and cut all trees <6" dbh in remaining two rows. T-sale should include two stands to the north in Kalkaska Unit. Portion of stand was in Kalkaska unit, manage our of the Manton office. East part of stand has a dead pocket that appears to be weakening the trees around it.
54	4131 - Aspen, Oak	Sapling Well	6.5	12	Immature	Young aspen with some oak mixed in. In two different locations. Almost blends in with recent cuts in the last 5 years.
55	4133 - Aspen, Mixed Pine	Poletimber Well	9.0	52	51-80	Only 9 acres of a larger stand to the north in Kalkaska Unit. Kalkaska should treat this stand when they cut stand 73. Southeast portion of stand has some natural red pine, too small to map.
58	6122 - Black Spruce	Poletimber Well	6.3	85	51-80	Small 4 acre and 2 acre isolated pockets of spruce. Has F1, S1, alder understory.
59	6124 - Lowland Spruce- Fir	Poletimber Well	14.8	74	51-80	Stand is one small part of a larger swamp complex that goes into the adjacent compartment and into Kalkaska county. Too wet and isolated for commercial management.
60	429 - Mixed Upland Conifers	Sawtimber Well	23.6	95	51-80	Stand contains the upland portions of the bog and a portion bordering Ham Crk. The upland portions of the bog contain a mix of red maple, balsam, and aspen with scattered oak. Beaver activity has removed some of the aspen component, but a few areas are regenerating. The portion of the stand to the north contains a heavier white pine component. White pine component concentrated in northwest. Small creek cuts access off to southern half of stand.
61	6120 - Lowland Cedar	Poletimber Medium	7.0	99	51-80	Northern part of stand contain some upland islands of a mix of fir and red maple. Mostly sparsely grown stagnant cedar on the south edge mixed with birch. No accessible with for commercial harvest.
62	429 - Mixed Upland Conifers	Sawtimber Medium	2.8	95	51-80	FMD: contains scattered supercanopy red pine, log sized red maple, and pockets of thick balsam poles. Isolated stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
64	6123 - Lowland Fir	Poletimber Well	5.8	71	81-110	Isolated lowland conifer stands with some red maple. Few open spots in stand and wet but still higher than stands all around.
66	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	138.5	95	81-110	FMD: Large conifer swamp complex. Has a few more upland portions but on the whole is a very wet hummocky stand. Has variable density and has a mix of swamp aspen and balsam toward the northeast quarter that was cut between 1944-1948.
67	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	28.0	52	51-80	Mix of aspen, red maple and white pine. Upland stand although has some lowland character in middle portion of stand. Large super canopy white pine scattered in stand as well. Old opening filling in in north portion of stand, appears to be from old landing.
68	42210 - Natural Red Pine	Sawtimber Medium	4.8	65	1-50	Small natural red pine stand. Stand thinned in 2007, with all aspen, maple, jack pine, and fir spec cut. Currently scattered log red pine with mix of aspen, red maple, fir and white pine in understory.
70	4130 - Aspen	Sapling Well	6.5	21	Immature	Stand was final harvested in 1994. Came back well to aspen.
71	4130 - Aspen	Poletimber Medium	12.8	45	1-50	Stand of lower quality aspen which becomes more of a lowland hardwood stand on east border of stand.
73	4130 - Aspen	Sapling Well	26.0	7	Immature	Stand was final harvested in 2008, with all oak left. Came back well to aspen, with some oak mixed in.
74	42210 - Natural Red Pine	Sawtimber Medium	13.7	86	51-80	Stand of natural red pine, with some aspen and white pine filling in between the red pine. Hummocky ground with leather leaf.
76	4133 - Aspen, Mixed Pine	Sapling Poor	10.5	2	1-50	Stand was final harvested in 2014, with all white pine, red pine and cedar left. Chipping operation, Heavy deer browse has set back the maple and aspen regeneration. May be a low stocked stand as a result of the deer pressure. (Likely a result of small size and proximity to swamp) Log white and red pine scattered in stand.
79	6124 - Lowland Spruce- Fir	Poletimber Medium	20.1	68	1-50	Lowland conifer complex with open flooded pockets of just alder.
81	42220 - Natural Jack Pine	Sawtimber Well	2.8	65	81-110	Good quality jack pine pocket with mix of white pine, red maple and red pine.
86	4130 - Aspen	Poletimber Medium	22.1	49	1-50	Low quality rough looking aspen with some hardwood and pine mixed in. Two track goes through both stand. Low density and quality aspen.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
91	4126 - White, Black, N. Pin Oak	Sawtimber Medium	198.0	102	1-50	Stand was modified shelter wood in 1999, with most of the red maple and aspen cut at that time and what appears to have been most of the red oak. Mostly open grown white oak in the over story. Open grown white oak over story has variable size class oak, maple, aspen, white pine and witch hazel in understory. A few opens pockets of clump red maple with the rest being more of a oak mix. Good mix of size classes. ORV trail and snowmobile trail run through stand.
93	42110 - Planted Red Pine	Poletimber Well	49.8	54	1-50	Odd third row thinning in which stand was third row thinned with all trees less than 7.5 inches dbh at stump cut as well regardless of row. Open plantation with hardwood/ aspen understory. Pine will be lost at this site. Sale took place in 2009.
97	4112 - Maple, Beech, Cherry Association	Poletimber Medium	5.8	59	51-80	Small stand of low quality clump red maple and scattered log oak.
99	42110 - Planted Red Pine	Poletimber Well	49.4	59	111-140	Stand was third row thinned in 2009, with all aspen and maple cut at that time too that was mixed in plantation. Very short spindly trees. Very low site index.
101	42110 - Planted Red Pine	Poletimber Well	49.6	59	141-170	Stand was third row thinned in 2008, with all aspen, maple, white pine, and cherry cut where present. Lots of doubles in stand, fairly short pine although one of the better stand in the area.
104	42110 - Planted Red Pine	Poletimber Well	229.8	59	111-140	Stand was third row thinned in 2010. Winter Storm in 2012 causes significant snow load damage and resulted in a small percentage of the plantation being damaged. Pine short and small in diameter for age, likely the result of the sandy limited soils. Very large stand.
108	42110 - Planted Red Pine	Poletimber Well	5.4	59	171-200	Old consumers lease prevented this small piece from ever being thinned along with the rest of the plantation. Very rough looking plantation as a result, treat along with adjacent pine now that lease is no longer valid.
111	4130 - Aspen	Sawtimber Medium	22.9	68	51-80	Mature stand of aspen down the bluff, with some oak, red maple, white pine and fir mixed in. South side of stand is a steep slope. Semi open in spots.
116	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	32.1	5	Immature	Stand treated by Sale #63-080-10-01 following wildfire that destroyed portion of stand. Stand was final harvested in 2010. Stand was trenched in 2010 and planted in 2011. East half of stand was where wildfire had occurred.
118	42110 - Planted Red Pine	Poletimber Well	25.7	54	81-110	Stand was third row thinned in 2010, with all red pine less then 7.5 inches dbh also cut. Any aspen, maple was also cut out of the plantation.
120	4199 - Other Mixed Upland Deciduous	Sawtimber Well	12.7	85	51-80	Stand is part of the Hopkins creek campground, used by heavily by horse campers. Mix of maple and oak with some aspen. Hazard trees have been cut over the years and will continue to be. Parts division primarily maintains the site. Open in spots but mostly well shaded campsites.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
121	4199 - Other Mixed Upland Deciduous	Sapling Medium	28.2	4	Immature	Stand was final harvested in 2011, with some reserve trees left (Green marked). Scattered big oak were left. Came back to mix of red maple, oak and aspen. Mostly stump sprouts.
122	4199 - Other Mixed Upland Deciduous	Poletimber Well	13.2	50	51-80	Mix of aspen, red maple and oak. Some pockets of over mature log aspen but mostly pole size aspen .
130	429 - Mixed Upland Conifers	Sawtimber Well	94.0	85	111-140	Buffer Complex along Hopkins Creek. Lowland conifer along the creek edge with more upland species on the side slope. Not suitable for commercial management. Acts as vegetative buffer to trout stream. Are a few areas on some of the edges that could be cut but not nearly large enough to make a sale. Again acts as a buffer to Hopkins.
132	4131 - Aspen, Oak	Sawtimber Well	9.2	45	81-110	Small less then 10 acre chunk of mature aspen with some pine mixed in. Hummocky ground, with all the aspen and oak just cut to the west.
133	42110 - Planted Red Pine	Poletimber Well	10.3	59	141-170	Pruned in 1980 and third row thinned in 1998. Ready to be second thinned. Good spot for landing and road already in place.
134	4130 - Aspen	Poletimber Well	28.0	26	Immature	Stand was final harvested in 1989. All pine was left. Aspen came back well with pine scattered. Aspen a little rough looking in spots.
135	4121 - Oak, Aspen	Sawtimber Medium	55.5	87	51-80	Log oak stand with mix of pole aspen, aspen concentrated in north end of stand. Large stand to west was just clear-cut with reserves 2014.
136	4123 - Red Oak	Sawtimber Well	44.1	88	51-80	Stand was thinned in 2010, with all aspen and maple spec cut as well. Very limited understory as a result of deer browse. Some red maple and oak regeneration on the hillside in east side of stand.
137	4130 - Aspen	Poletimber Well	75.3	26	Immature	Stand was final harvested in 1989. Small pole stand, still sapling size in pockets.
138	4124 - Red with White Oak	Sawtimber Medium	42.8	87	1-50	Harvested in 1999, Oak over story was left at 30 to 60 BA. Oak, aspen, and red maple have taken up the understory.
140	4199 - Other Mixed Upland Deciduous	Sapling Medium	88.7	5	Immature	Stand was final harvested in 2010, with all oak less then 6 inches in dbh left as well as scattered green ringed mature oak. Aspen , red maple and oak have regenerated from the harvest. Good mix of all three with all the advanced oak scattered throughout. Snowmobile and ORV trail in the stand and on the edge.
143	42110 - Planted Red Pine	Sawtimber Well	38.3	59	111-140	Pruned in 1980 and third row thinned in 2000. All maple and aspen was cut out of plantation at that time as well.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
144	4130 - Aspen	Sapling Well	35.4	16	Immature	Stand was final harvested came back to mostly aspen with some oak and white pine mixed in. ORV trail goes through stand.
145	42110 - Planted Red Pine	Sawtimber Well	12.4	59	141-170	Pruned in 1980 and third row thinned in 2000. Stand is in good shape, limited understory. Snowmobile trail goes through stand. Stand is of better quality on east end. old two track or fire break on west unit.(Good spot for landing)
146	4130 - Aspen	Sapling Poor	7.3	5	Immature	Stand was final harvested in 2010, with all oak less than 6 inches dbh and scattered green ringed mature oak left as well. Regenerated well to aspen, maple and oak mix. Oak left mostly small pole, snowmobile trail goes through stand as well as ORV trail. Stand is separated by power line ROW.
150	4130 - Aspen	Poletimber Well	8.7	27	Immature	Stand was final harvested in 1988. Call back well to aspen, with some oak mixed in. A few large oak were left by the road.
151	4199 - Other Mixed Upland Deciduous	Sapling Well	165.7	2	1-50	Stand was treated on two separate occasions between 2013 and 2014. In 2013 PCA cut and chipped all of the wood with the exception of the log oak.(PCA had no market for big oak at that time) Log oak was then cut a year later in winter of 2014 by subcontracted producer. Widely scattered green ringed oak were left as well as all oak under 4 inches dbh.
152	4199 - Other Mixed Upland Deciduous	Poletimber Poor	23.0	104	1-50	Burned in 1998 and in 2001. Scheduled to burn again in 2009, but never happened. Open grown red maple clumps and oak with oak and maple understory. Variable stand with evidence of old fire scars from previous prescribed burns.
153	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	24.3	153	1-50	Variable stand of clump red maple and large open grown oak. White pine component as well.
204	42110 - Planted Red Pine	Poletimber Well	44.0	59	111-140	Stand was third row thinned in 2011. Smaller diameter and height for age, received a little snow damage from 2012 storm, but not as bad as stand to north.



Stand	Cover Type	Acres	Managed Site	General Comments:
6	510- Water (OI)	15.0	No	OPIC - FMD: Manistee River
17	6225 - Bog	1.3	No	
22	3301 - Low Density Deciduous Tree	14.8	Yes	OPIC - FMD: last burned in 2000. Scheduled to burn again in 2008.
31	330 - Low-Density Trees	2.6	No	Sliver of semi open jack pine, red pine, aspen, and red maple. Good spot for landing if needed. Variable pole and sapling for the most part.
35	710 - Sand, Soil	2.2	No	Mantistee overlook. Sand bank all the way up to bluff. Appears to be popular swimming spot. Road access right to top of bluff.
57	6224 - Treed Bog	48.8	No	
63	622 - Lowland Shrub	177.3	No	Large beaver flooding with scattered pockets of dead cedar and lowland grasses. Creek runs through stand.
84	62259 - Bog (OI)	2.1	No	
88	310 - Herbaceous Openland	30.1	No	Utility Line. Wet in pockets.
98	3301 - Low Density Deciduous Tree	37.2	Yes	OPIC - FMD: burned in 1996 and 2002. Prescribed for 2010, but this never happened. Plan to burn in 2015. Stand was burned again in the spring of 2015.
100	3301 - Low Density Deciduous Tree	47.6	Yes	OPIC - FMD: last burned in 1999. Scheduled for 2005. Stand was burned again in 2014.
103	62259 - Bog (OI)	2.7	No	Leather leaf bog.
119	3301 - Low Density Deciduous Tree	50.9	Yes	Part of the Hopkins burn area, last burned in 2000. Site of Hopkins creek wildfire that took place in 2010. Destroyed pine plantation to north and west. Plan is to burn this unit in 2015. STAND was RX burned in spring 2015.
131	6229 - Mixed lowland shrub	27.5	No	FMD: alder along Hopkins Crk. HCVA - Natural River corridor.
154	3301 - Low Density Deciduous Tree	56.6	Yes	OPIC - FMD: Last burned in 1996 and 2002. Was scheduled to be burned again in 2010, although this never took place.
155	3301 - Low Density Deciduous Tree	30.7	Yes	OPIC - FMD: Last burned in 1997 and 2003. Scheduled to burn again in 2011, although this never took place. Has a white pine overstory component. Plan is to burn this unit in 2016.



Stand	Cover Type	Acres	Managed Site	General Comments:
156	3301 - Low Density Deciduous Tree	86.7	Yes	Last burned in 1997 and 2003 and 2004. Scheduled to burn again in 2012 ,although this never took place. Has a white pine overstory component on west side. Center of stand was burned in 2010 arson wildfire. (Shape shows up on bing imagery, larger portion of this wildfire was to the west in stand 119.)
157	3301 - Low Density Deciduous Tree	87.3	Yes	Last burned in 1996 and 2001. Stand was burned again in 2014.
158	3301 - Low Density Deciduous Tree	78.8	Yes	OPIC - FMD: Last burned in 1997 and 2003. Stand was burned again in 2014.
159	3301 - Low Density Deciduous Tree	24.6	Yes	Last burned in 1998 and 2004. Scheduled to burn again in 2012, but this did not happen. Now planned to be burned in 2015. Stand was burned again in May 2015. (5-7-15)
201	122 - Road/Parking Lot	26.9	No	Lucas Rd.
291	500 - Water	2.5	No	FMD: small section of Manistee River
404	310 - Herbaceous Openland	1.0	No	