



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 186

Entry Year 2015

Acreage: 2,218

County Mackinac

Management Area: Milakokia Lake

Revision Date: 06/05/2013

Stand Examiner: Cory Luoto

Legal Description:

T43N-R12W, Sections 1-2, 9-16 & 21-23 and T44N-R12W, Section 36

Identified Planning Goals:

This compartment is located approximately 5 miles south-southwest of Curtis. Aspen/spruce/fir mix (both upland and lowland) is the primary component of the compartment, with several hardwood stands scattered throughout. Good age class diversity exists within the aspen component. Aspen cutting has taken place every decade since the mid-1960's. Continued cutting of the mature to over-mature stands is recommended to assure adequate regeneration, and continued age class diversity. The hardwood stands are in need of management to promote health and growth. Access problems exist within large parts of the compartment. Two private landowners control access to several scattered state parcels. These holding should be considered for trading or selling.

Soil and topography:

Level lowlands to rolling uplands. Uplands consist primarily of Greylock-Adams complex, Adams sandy loam and Graveraet fine sandy loam. Minor associates include Paquin sand, Springlake loamy coarse sand, Guardlake fine sandy loam, Solona loam, and Kalkaska sand. Lowlands are primarily Markey and Carbondale mucks, but includes some Angelica muck.

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

This is the most fragmented compartment managed out of the Naubinway Field office. The compartment has three primary private landowners bordering and mixed in with the state land. There is one block of state land along the Meade Creek Road. Three forties are accessed off of Brotherton Road; also there is a private road system off of Brotherton Road that is used to access the state land in sections 14 and 15. Nine forties around Brown Lake can be accessed through private off of US-2. Two parcels are along Norton Road. The other one hundred sixty acres can be access from the Harrington Grade, but these are also blocked by private land. The compartment map better illustrates how broken up the state land is in this area.

Unique Natural Features:

Within this compartment there are numerous osprey nests, an eagle nest, and a great blue heron rookery. Long Lake, Mitten Lake, Lily Lake and portions of Norton Creek, Taylor Creek, and Meade Creek are contained within the compartment boundaries.

Archeological, Historical, and Cultural Features:

History of old logging railroads evident also old logging camp remnants present.

Special Management Designations or Considerations:

One stand is the public access site known as Dunkles Landing on South Manistique Lake.

Watershed and Fisheries Considerations:

This compartment contains a stream reach of Meade Creek and Browns Lake. Meade Creek is a warm-water tributary of the Manistique River. No file information exists for Brown's Lake. Implementation of BMP's will aid in preventing sediment input from road crossings and upland areas are critically important to protect spawning areas for stream-resident fishes.

Wildlife Habitat Considerations:

This compartment lies within the Milakokia Lakes Management Area. This is a predominantly upland area. The original land surveyor notes show a highly diverse high quality hardwood forest dominated the landscape in this compartment. Northern hardwoods continue to occupy a substantial portion of the compartment with aspen and lowland poplar occupying a similar amount of area. The lowlands that exist within the compartment contained cedar, spruce and tamarack. Open grassland and brush comprise a small proportion of this compartment.

Wildlife habitat objectives in this compartment include maintenance and enhancement of species and structural diversity

within the hardwood forests, maintaining cedar and other lowland conifer stands, and enhancing age class diversity in some early successional stands. Hardwoods will be thinned to encourage new growth while retaining some mast producing species, those that are under-represented, and some larger wolfy trees for hawk nesting, including for red-shouldered hawks. Some stands containing aspen and other early successional species will be harvested to promote young regeneration favorable to deer, ruffed grouse, and woodcock. Many stands will be harvested during the winter months to allow tops to be available as browse for wintering deer. Cedar will be left to provide winter cover for deer and habitat for bobcat, bear, and other species

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel, peat and muck, and coarse-textured glacial till. The glacial drift thickness varies between 10 and 100 feet. The Silurian Burnt Bluff Group subcrops below the glacial drift. The Burnt Bluff is quarried for stone/limestone six miles to the southwest at the Inland Quarry. Gravel pits are located throughout the area and there appears to be potential on the upland areas. There is no economic oil and gas production in the UP.

Vehicle Access:

Access to this compartment can be quite difficult. The largest block of land can be access from the Meade Creek Road. This is a county road but the southern portions are only usable in the winter months. Access to the northern portion in the summer months can be gained by going through private land. The center parcels all have roads that access them but the roads all go through private land. The eastern portions of the compartment can be access from Brotherton Road, Harrington Grade, and Norton Road. However private land must be crossed in order to reach state land. The southern portion has roads leading to it but these roads also go through private land.

Survey Needs:

If harvesting activities are to take place in sections 14 and 15 some corners may need to be placed. Logging was done on the adjacent private land and there may be private corners that are already in place.

Recreational Facilities and Opportunities:

There are no developed recreation facilities within this compartment.

Fire Protection:

This is a low fire potential compartment. However, access issues should be noted.

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 & Treatment Map

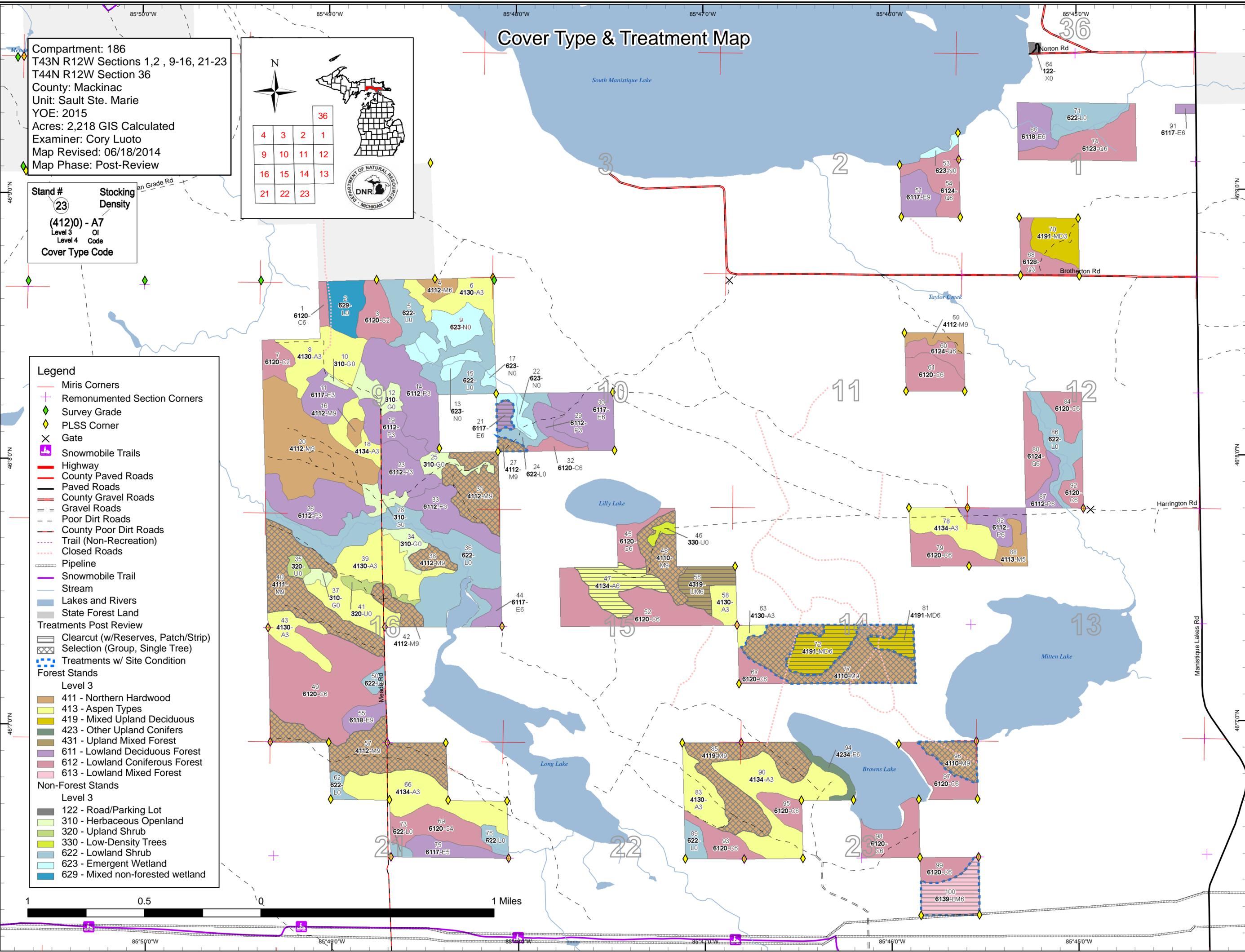
Compartment: 186
 T43N R12W Sections 1, 2, 9-16, 21-23
 T44N R12W Section 36
 County: Mackinac
 Unit: Sault Ste. Marie
 YOE: 2015
 Acres: 2,218 GIS Calculated
 Examiner: Cory Luoto
 Map Revised: 06/18/2014
 Map Phase: Post-Review

N

			36
4	3	2	1
9	10	11	12
16	15	14	13
21	22	23	

Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - ◆ Survey Grade
 - ◆ PLSS Corner
 - X Gate
 - Snowmobile Trails
 - Highway
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Trail (Non-Recreation)
 - Closed Roads
 - Pipeline
 - Snowmobile Trail
 - Stream
 - Lakes and Rivers
 - State Forest Land
 - Clearcut (w/Reserves, Patch/Strip)
 - Selection (Group, Single Tree)
 - Treatments w/ Site Condition
 - Forest Stands**
 - Level 3**
 - 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 423 - Other 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
 - 320 - Upland Shrub
 - 330 - Low-Density Trees
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland
 - 629 - Mixed non-forested wetland



85°50'0"W 85°49'0"W 85°48'0"W 85°47'0"W 85°46'0"W 85°45'0"W
 46°50'0"N 46°49'0"N 46°48'0"N 46°47'0"N

Stand Boundary Map

Compartment: 186
 T43N R12W Sections 1, 2, 9-16, 21-23
 T44N R12W Section 36
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4	3	2	1
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16	15	14	13
21	22	23	

Stand # **23**
 Stocking Density
(4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Legend

- Miris Corners
- Remonumented Section Corners
- ◆ Survey Grade
- ◆ PLSS Corner
- × Gate
- Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
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- Snowmobile Trail
- Stream
- Stand Boundaries

Forest Stands

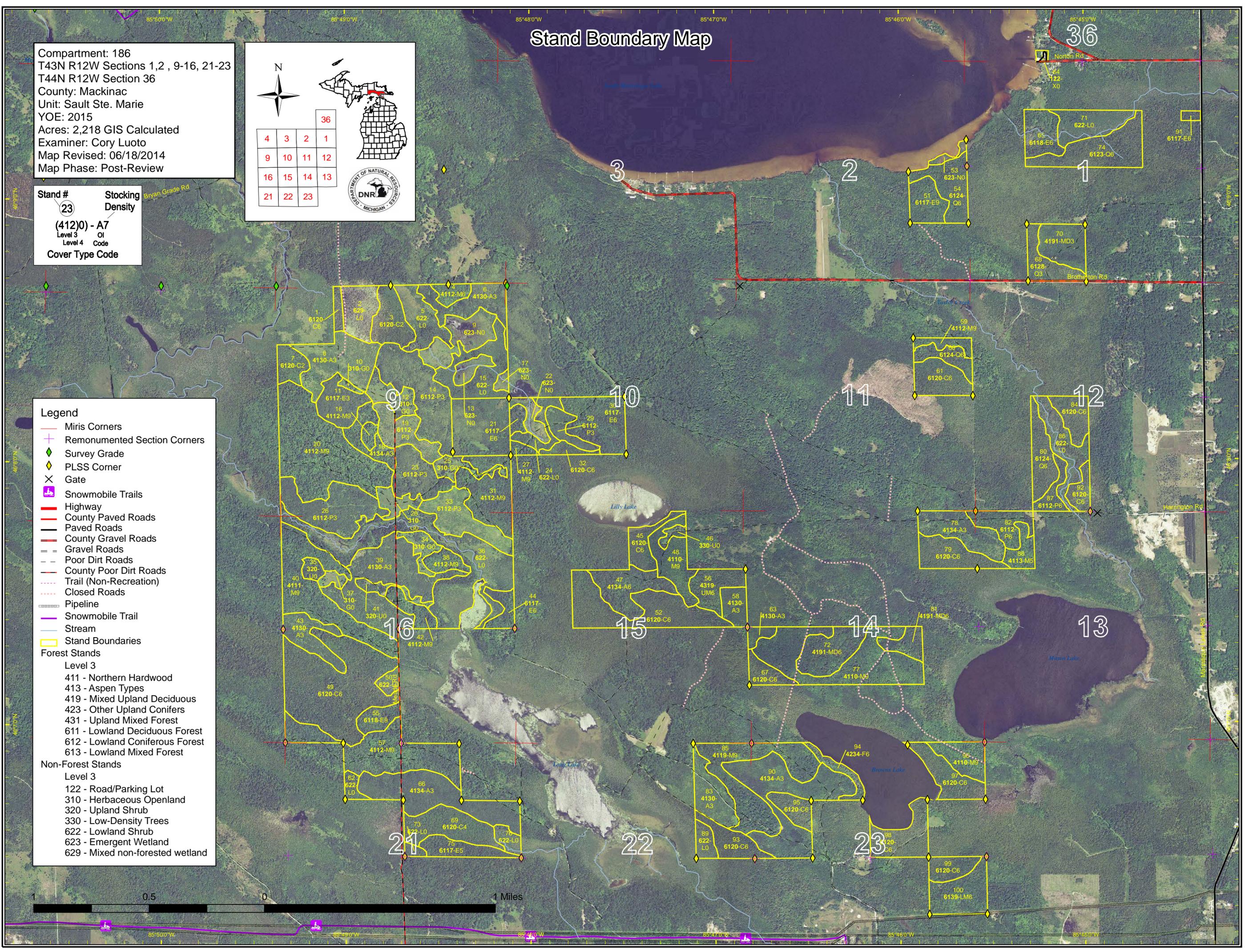
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Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
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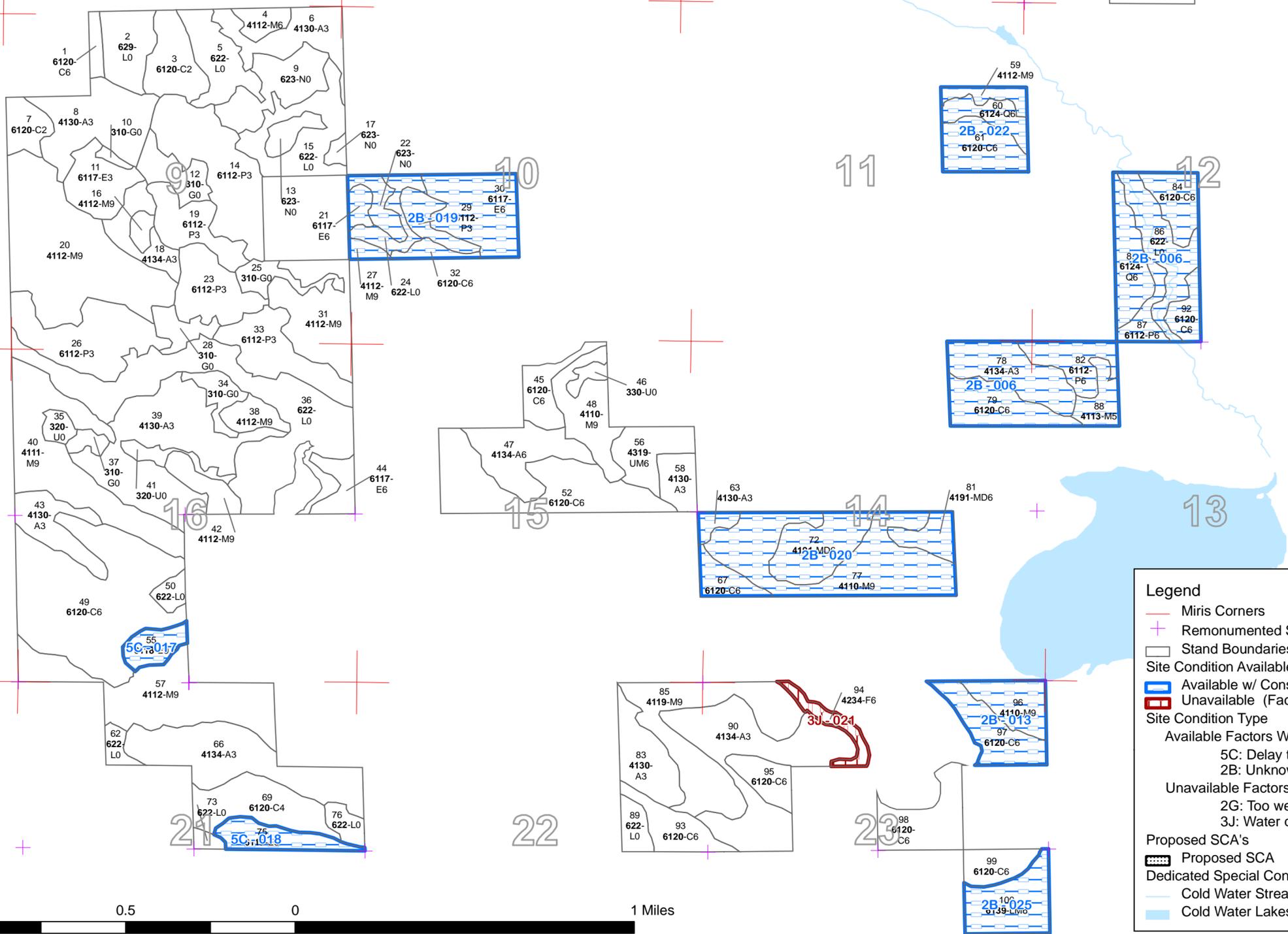


Special Conservation Areas & Site Conditions Map

Compartment: 186
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 T44N R12W Section 36
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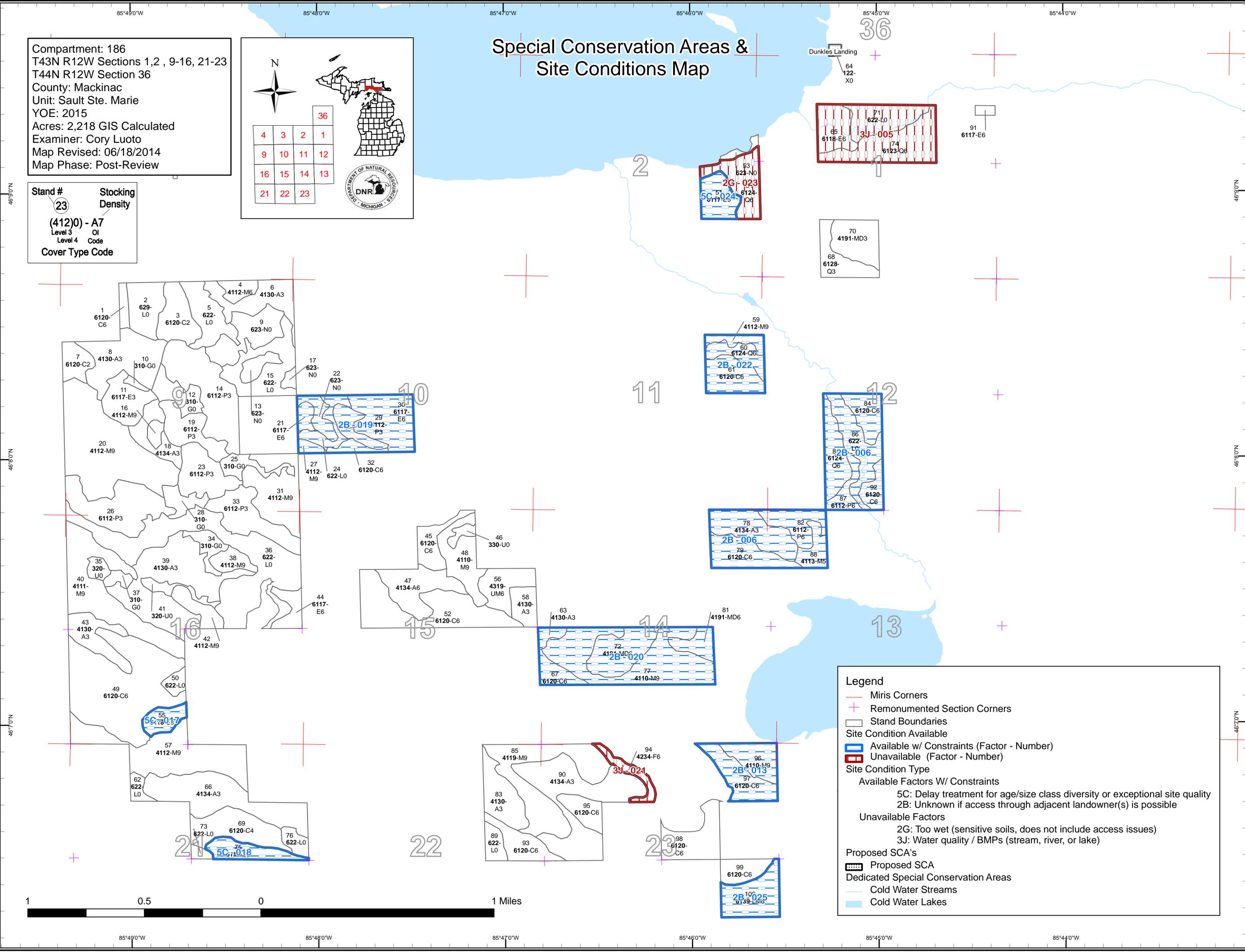
			36
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21	22	23	

Stand # **23** Stocking Density
(4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- Miris Corners
- Remonumented Section Corners
- Stand Boundaries
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Site Condition Type
- Available Factors W/ Constraints
 - 5C: Delay treatment for age/size class diversity or exceptional site quality
 - 2B: Unknown if access through adjacent landowner(s) is possible
- Unavailable Factors
 - 2G: Too wet (sensitive soils, does not include access issues)
 - 3J: Water quality / BMPs (stream, river, or lake)
- Proposed SCA's
 - Proposed SCA
 - Dedicated Special Conservation Areas
 - Cold Water Streams
 - Cold Water Lakes



Cover Type & Treatment Map

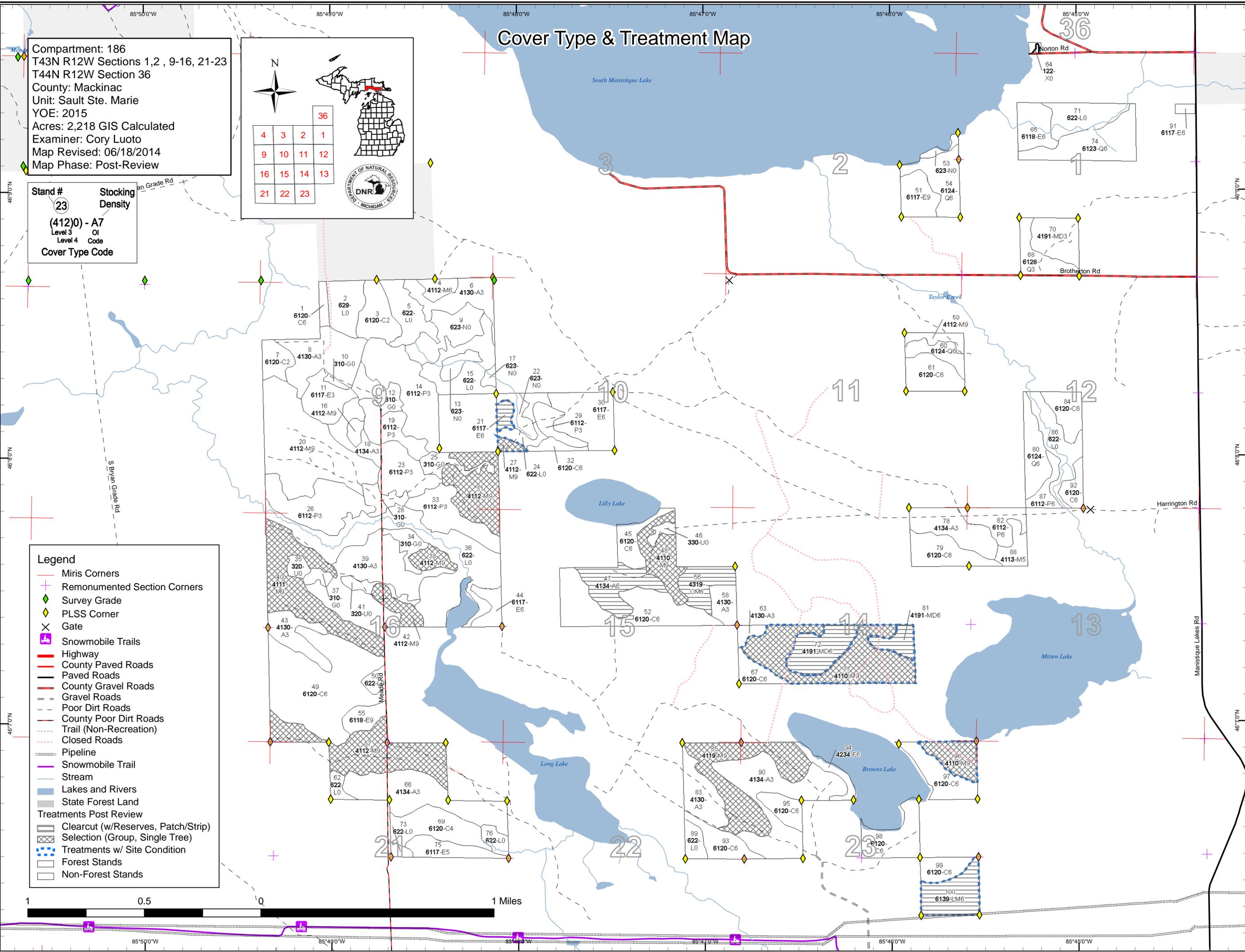
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Report 1 – Total Acres by Cover Type and Age Class



	Age Class													Total	
	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 +		Uneven Age
Aspen	64	161	134	0	0	0	0	0	29	0	0	0	0	387	
Cedar	0	0	0	0	0	0	0	31	12	199	104	68	0	414	
Herbaceous Openland	49	0	0	0	0	0	0	0	0	0	0	0	0	49	
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	4	
Lowland Aspen/Balsam Poplar	52	53	76	0	0	0	0	27	0	0	0	0	0	208	
Lowland Conifers	0	0	0	0	0	0	17	0	96	0	0	0	0	113	
Lowland Deciduous	0	0	21	0	0	2	45	21	17	30	0	0	0	136	
Lowland Mixed Forest	0	0	0	0	0	0	28	0	0	0	0	0	0	28	
Lowland Shrub	259	0	0	0	0	0	0	0	0	0	0	0	0	259	
Marsh	50	0	0	0	0	0	0	0	0	0	0	0	0	50	
Mixed Upland Deciduous	0	0	23	0	0	0	0	39	0	0	0	0	0	62	
Northern Hardwood	0	0	0	0	0	0	76	197	194	0	0	0	0	467	
Upland Mixed Forest	0	0	0	0	0	0	19	0	0	0	0	0	0	19	
Upland Shrub	11	0	0	0	0	0	0	0	0	0	0	0	0	11	
Upland Spruce/Fir	0	0	0	0	0	0	9	0	0	0	0	0	0	9	
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	2	
Total	490	214	254	0	0	0	2	194	315	349	229	104	68	0	2218



Report 2 – Proposed Treatment Summaries

Sault Ste. Marie Mgt. Unit
Year of Entry 2015

Compartment 186
Total Compartment Acres: 2,218

Acres by Treatment Type

Commercial Harvest - 468	Tree Planting - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	29	0	0	0	0	0	0	29
Lowland Deciduous Forest	5	0	0	0	0	0	0	5
Lowland Mixed Forest	28	0	0	0	0	0	0	28
Mixed Upland Deciduous	39	0	0	0	0	0	0	39
Northern Hardwood	0	348	0	0	0	0	0	348
Upland Mixed Forest	19	0	0	0	0	0	0	19
Total	120	348	0	0	0	0	0	468

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
31 45186031-Cut	37.7	4112 - Maple, Beech, Cherry Association	High Density Log	97	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy. - Incomplete

Prescription Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all junberry and
Specs: 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.

Other
Comments:

Next Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow
Steps: birch, balsam fir, spruce, aspen and hemlock.

Proposed
Start Date: 10/01/2014

38 45186038-Cut	9.2	4112 - Maple, Beech, Cherry Association	High Density Log	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy. - Incomplete
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Prescription Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all junberry and
Specs: 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. Leave any healthy beech and 2-3 beech per acre where present. Leave yellow birch, and some large wolfy trees. Winter cut.

Other
Comments:

Next Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow
Steps: birch, balsam fir, spruce, aspen and hemlock.

Proposed
Start Date: 10/01/2014

40 45186040-Cut	59.2	4111 - S.Maple, Hard Mast Association	High Density Log	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy. - Incomplete
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Prescription Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all junberry and
Specs: 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. Leave any healthy beech and 2-3 beech per acre where present. Leave yellow birch, and some large wolfy trees. Winter cut.

Other
Comments:

Next Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow
Steps: birch, balsam fir, spruce, aspen and hemlock.

Proposed
Start Date: 10/01/2014

42 45186042-Cut	11.2	4112 - Maple, Beech, Cherry Association	High Density Log	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy. - Incomplete
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Prescription Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all junberry and
Specs: 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.

Other
Comments:

Next Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow
Steps: birch, balsam fir, spruce, aspen and hemlock.

Proposed
Start Date: 10/01/2014



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
47	45186047-Cut	28.9	4134 - Aspen, Spruce/Fir	High Density Pole	93	111-140	Harvest	Clearcut with Reserves	413 - Aspen	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Cut all deciduous 2" or more and conifer 4" or more to encourage regeneration for ruffed grouse and other species, except leave a representative healthy, mature tree spaced every 75ft (resulting in ~8 leave trees per acre) for diversity and future drumming logs. Leave cedar, and stay out of cedar patches to maintain winter cover. Winter cut so palatable browse is available for wintering deer.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2014</p>										
48	45186048-Cut	25.1	4110 - Sugar Maple Association	High Density Log	89	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Mark stand to 80 to 90 Basal Area to encourage diversity in the stand. Leave at least 2-3 beech per acre where present, any healthy beech, some large wolfy trees for hawk nesting, and some ironwood, basswood, and all junberry, conifers, and some ash (including all healthy trees) to benefit cavity nesters and encourage mast production for deer, bear, and other species. 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. Winter cut.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, balsam fir, spruce, aspen and hemlock.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2014</p>										
56	45186056-Cut	19.4	4319 - Mixed Upland Forest	High Density Pole	73	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre). Stay out of patches of thick cedar.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2014</p>										
57	45186057-Cut	61.0	4112 - Maple, Beech, Cherry Association	High Density Log	84	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all junberry 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. Leave any healthy beech and 2-3 beech per acre where present. Leave yellow birch, and some large wolfy trees. Winter cut.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, balsam fir, spruce, aspen and hemlock.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2014</p>										



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
85 45186085-Cut	55.1	4119 - Mixed Northern Hardwoods	High Density Log	93	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy. - Incomplete

Prescription Good diversity of species in this stand. Beech bark disease is present in the stand.

Specs: Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all junberry and conifer should be left. Cut a majority of the white ash. Some larger canopy gaps may be desirable around the aspen if possible to regenerate the species and enhance the advanced regeneration present. Leave any healthy beech and at least 2-3 beech per acre where present and some ash. Leave yellow birch, and some large wolfy trees. Winter cut.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, balsam fir, spruce, aspen and hemlock.

Proposed Start Date: 10/01/2014

**Total Treatment
Acreage Proposed: 306.8**



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
21	45186021-Cut	5.2	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	83		Harvest	Clearcut with Reserves	413 - Aspen	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription Specs:</u> Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre) Winter cut.</p> <p><u>Other Comment:</u> No legal access at this time.</p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p> <p><u>Limiting Factor</u> 2A: Adjacent landowner denied access</p>										
27	45186027-Cut	3.5	4112 - Maple, Beech, Cherry Association	High Density Log	97	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription Specs:</u> Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all junberry 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. Leave any healthy beech and 2-3 beech per acre where present. Leave yellow birch, and some large wolfy trees. Winter cut.</p> <p><u>Other Comment:</u> No legal access to this stand.</p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p> <p><u>Limiting Factor</u> 2A: Adjacent landowner denied access</p>										
72	45186072-Cut	27.9	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	82	111-140	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription Specs:</u> Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre). Winter cut.</p> <p><u>Other Comment:</u> No legal access to this stand.</p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p> <p><u>Limiting Factor</u> 2A: Adjacent landowner denied access</p>										
77	45186077-Cut	68.5	4110 - Sugar Maple Association	High Density Log	78	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription Specs:</u> Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all junberry 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. Leave some ash, particularly any healthy trees. Winter cut.</p> <p><u>Other Comment:</u> No legal access to this stand.</p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, balsam fir, spruce, aspen and hemlock.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p> <p><u>Limiting Factor</u> 2A: Adjacent landowner denied access</p>										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
81 45186081-Cut	11.0	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	82	111-140	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre).

Other Comment: No legal access to this stand.

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Proposed Start Date: 10/01/2014

Limiting Factor 2A: Adjacent landowner denied access

96 45186096-Cut	17.8	4110 - Sugar Maple Association	High Density Log	89	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy. - Incomplete
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Prescription Specs: Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all junberry 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. Leave any healthy beech and 2-3 beech per acre where present. Leave yellow birch, and some large wolfy trees. Winter cut.

Other Comment: No legal access to this stand.

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, balsam fir, spruce, aspen and hemlock.

Proposed Start Date: 10/01/2014

Limiting Factor 2A: Adjacent landowner denied access

100 45186100-Cut	27.7	6139 - Mixed Lowland Forest	High Density Pole	75	111-140	Harvest	Clearcut with Reserves	612 - Lowland Coniferous Forest	Fld. Tr. Bdy. - Incomplete
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Prescription Specs: Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre). Stay out of patches of thick cedar. Winter cut.

Other Comment: No legal access to this stand.

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, paper and yellow birch, white pine, spruce, fir, jack pine, red pine, and tamarack.

Proposed Start Date: 10/01/2014

Limiting Factor 2A: Adjacent landowner denied access

**Total Treatment
Acreage Proposed: 161.6**

Availability for Management

Total Acres	Acres Available	Acres Not Available		Dominant Site Conditions				
				No	5C	3J	2G	2A
387	354	33	Aspen	354				33
414	307	107	Cedar	307				107
208	170	38	Lowland Aspen/Balsam Poplar	170				38
113	17	96	Lowland Conifers	17		39	25	32
136	78	59	Lowland Deciduous	33	44	19		40
28		28	Lowland Mixed Forest					28
62	23	38	Mixed Upland Deciduous	23				38
467	361	106	Northern Hardwood	361				106
19	19		Upland Mixed Forest	19				
9		9	Upland Spruce/Fir			9		
1,844	1,331	513	Total Forested Acres	1,286	44	66	25	422
	72%	28%	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
005	Not Available	3J: Water quality / BMPs (stream, river, or lake)	81	2B: Unknown if access through adjacent landowner(s) is possible			
Comments: These stand are very wet and is a riparian area for a stream that flows into South Manistique lake.							
006	Available	2B: Unknown if access through adjacent landowner(s) is possible	161				
Comments:							

Report 5 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment 186

Year of Entry 2015

013	Available	2B: Unknown if access through adjacent landowner(s) is possible	40	
Comments:				
017	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	
Comments: Stand was thinned in the previous entry. Wait ten years to thin again.				
018	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	
Comments: Wait ten years for the stand to grow and group with other clearcut within the compartment.				
019	Available	2B: Unknown if access through adjacent landowner(s) is possible	79	
Comments:				
020	Available	2B: Unknown if access through adjacent landowner(s) is possible	119	
Comments:				
021	Not Available	3J: Water quality / BMPs (stream, river, or lake)	9	
Comments: Stand is right on the shore of Brown Lake. Was left as a buffer along the lake.				

Report 5 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment 186

Year of Entry 2015

022	Available	2B: Unknown if access through adjacent landowner(s) is possible	41	
Comments:				
023	Not Available	2G: Too wet (sensitive soils, does not include access issues)	25	3J: Water quality / BMPs (stream, river, or lake)
Comments: Stand is extremely wet and borders South Manistique Lake. Might be able to harvest a portion in ten years when the adjacent stand is treated.				
024	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	
Comments: Basal area isn't high enough to mark now. Look at harvesting ten years.				
025	Available	2B: Unknown if access through adjacent landowner(s) is possible	28	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
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
Dunkles Landing	Concentrated Recreation Area	Boat Access Site	SCA	1.7
Comments	Boat Launch, Parking Lot and outhouse.			



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	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 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	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	High Density Pole	4.8	113	171-200	Stand is very dense cedar. Was originally part of a larger stand but the portion to the east of the road has been flooded and has all died.
3	6120 - Lowland Cedar	Medium Density	21.6	101		Very wet cedar and tag alder. Cedar is around ten feet tall and small. Very poor quality.
4	4112 - Maple, Beech, Cherry Association	High Density Pole	7.6	75	81-110	Red maple stand that transitions into a Mackinac Mix stand in the compartment to the north. Look at doing a cut next entry.
6	4130 - Aspen	High Density Sapling	25.2	19		Stand was cut in 1995 and 1996. Data taken from the the compartment to the north. Field work done by Matt Edison.
7	6120 - Lowland Cedar	Medium Density	11.7	101		Very wet cedar and tag alder. Cedar is around ten feet tall and small. Very poor quality.
8	4130 - Aspen	High Density Sapling	40.1	5		Awesome aspen stand. Regen is doing great very little conifer.
11	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	20.5	22		Aspen regen is doing great. About 30' tall and quite dense.
14	6112 - Lowland Aspen	High Density Sapling	50.2	22		wetter aspen stand. Regen is doing great. The north part of the stand was cut in 1992 and the south part was cut in 1999. Hard to tell the difference on the ground. The west edge of the stand is drier than the rest of the stand.
16	4112 - Maple, Beech, Cherry Association	High Density Log	4.1	89	81-110	Decent maple stand. Not quite as good as the other maple in the compartment. Much higher volume of red maple.
18	4134 - Aspen, Spruce/Fir	High Density Sapling	15.9	11		Decent aspen stand. Regen doing good. Pretty fair amount of spruce and balsam.
19	6112 - Lowland Aspen	High Density Sapling	21.8	3		Aspen is coming back great. Really thick sprouts.
20	4112 - Maple, Beech, Cherry Association	High Density Log	89.0	89	81-110	Decent maple stand. Not quite as good as the other maple in the compartment. Much higher amounts of red maple.
21	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	5.2	83		Wetter Mackinac Mix stand. Should be harvested but at this time there is no legal access.
23	6112 - Lowland Aspen	High Density Sapling	26.2	22		Aspen is doing decent. A few sparse areas but overall pretty thick regen.
26	6112 - Lowland Aspen	High Density Sapling	42.2	15		The west half of this stand was cut in 1992. The east half was cut in 1999. Pretty close to the same now. Nice aspen with more spruce and balsam than other areas of the compartment.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	4112 - Maple, Beech, Cherry Association	High Density Log	3.5	97	111-140	Nice maple stand ready to be thinned. No legal access at this time.
29	6112 - Lowland Aspen	High Density Sapling	11.0	15		Aspen regen is doing great. Trees around 25' tall.
30	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	35.3	73	81-110	A variable, wet Mackinac Mix stand. There are two upland islands of maple but not worth splitting out. This stand could be harvested in ten years. No legal access to at this time.
31	4112 - Maple, Beech, Cherry Association	High Density Log	37.7	97	111-140	Nice maple stand. Very little brush, ready to be thinned.
32	6120 - Lowland Cedar	High Density Pole	5.5	121	141-170	Nice dense cedar stand. Part of the same stand that surrounds Lily Lake.
33	6112 - Lowland Aspen	High Density Sapling	29.9	3		Aspen regen is doing great. About 10' tall.
38	4112 - Maple, Beech, Cherry Association	High Density Log	9.2	92	111-140	Nice maple stand ready to be thinned. Some aspen and spruce in the eastern most portion.
39	4130 - Aspen	High Density Sapling	71.1	12		Really nice aspen stand. This area grows great aspen.
40	4111 - S.Maple, Hard Mast Association	High Density Log	59.2	92	111-140	Nice maple stand. Ready to be thinned. Fair amount of deer browse.
42	4112 - Maple, Beech, Cherry Association	High Density Log	11.2	92	111-140	Nice maple stand ready for thinning. Some aspen and spruce near the road.
43	4130 - Aspen	High Density Sapling	19.9	12		Awesome aspen stand. Regen is doing really good, almost pure aspen.
44	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	9.8	72	111-140	A decent, but wetter Mackinac mix stand. This stand is a nice riparian area for the wetland to the north. The west edge of the stand is more upland.
45	6120 - Lowland Cedar	High Density Pole	14.1	121	141-170	Nice dense cedar stand. Stand goes right up to the water on Lily Lake.
47	4134 - Aspen, Spruce/Fir	High Density Pole	28.9	93	111-140	Stand is starting to decline. Should have cut last entry but no legal access. Some areas are more open but a fair amount of balsam in the understory.
48	4110 - Sugar Maple Association	High Density Log	25.1	89	111-140	Nice hardwood stand. Not much in the understory. Concentrate harvest on the white ash within the stand.
49	6120 - Lowland Cedar	High Density Pole	100.7	102		Variable, wet cedar stand. Some areas are heavier to black spruce but they are small. The eastern part of the stand is wetter than the west. Tons of deer sign.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
51	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	17.5	93	51-80	Very wet maple stand. Doesn't look much different than it did ten years ago. Look a doing a treatment in ten more years.
52	6120 - Lowland Cedar	High Density Pole	54.4	107	141-170	Fairly dense cedar stand. Lots of deer sign. A small section of road will have to be built to access the stand to the north.
54	6124 - Lowland Spruce-Fir	High Density Pole	24.7	96	81-110	Wet swamp conifer stand. I visited this stand twice. The portion along the lake in the winter and the south portion in May. Lots more mature stems to the north but it is a pole stand throughout. Stand borders South Manistique Lake.
55	6118 - Lowland Deciduous with Cedar	High Density Log	10.9	106	51-80	Wetter maple, Birch stand with cedar. This stand was thinned in the previous entry. Look at thinning again in ten years.
56	4319 - Mixed Upland Forest	High Density Pole	19.4	73	81-110	Decent Mackinac Mix stand. Stand might be slightly larger when harvested. It is hard to tell on the imagery how far south the stand goes.
57	4112 - Maple, Beech, Cherry Association	High Density Log	61.0	84	111-140	Nice maple stand, ready to be thinned again.
58	4130 - Aspen	High Density Sapling	11.3	26		Aspen regen is doing great. Not entirely sure if the stand is upland or lowland. Too much snow to tell.
59	4112 - Maple, Beech, Cherry Association	High Density Log	7.4	91		Harvested stand last entry. Land owner denied access unless he was present. Couldn't get him to return calls.
60	6124 - Lowland Spruce-Fir	High Density Pole	11.8	91		Land owner denied access unless he was present. Couldn't get him to return calls. Smaller spruce and balsam.
61	6120 - Lowland Cedar	High Density Pole	21.5	111		Land owner denied access unless he was present. Couldn't get him to return calls. Pretty dense cedar.
63	4130 - Aspen	High Density Sapling	4.8	26		Aspen regen is doing great. Not entirely sure if the stan is upland or lowland. Too much snow to tell.
65	6118 - Lowland Deciduous with Cedar	High Density Pole	19.0	101		Wet, maple, balsam poplar, paper Birch, spruce, balsam and cedar. Made it to this stand ten years ago. Couldn't get into it this time.
66	4134 - Aspen, Spruce/Fir	High Density Sapling	54.8	22		Nice young aspen stand, typical of this area. Will make a pole stand in 10 years.
67	6120 - Lowland Cedar	High Density Pole	10.5	107	141-170	Fairly dense cedar stand. Lots of deer sign.
68	6128 - Lowland Coniferous, Mixed Deciduous	High Density Sapling	17.4	71	1-50	Thick, wet swamp conifer stand. This stand includes a small patch of hemlock that used to be it's one stand. The county did improvement on Brotherton Road and this stand has got alot wetter. Most of the hemlock has died. There are a few merchantable trees but it is primarily a sapling stand.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6120 - Lowland Cedar	Low Density Pole	31.1	84	1-50	Very wet lowland conifer stand. Poor quality throughout the stand.
4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	22.8	22		Decent Mackinac Mix Stand. Lots of stems per acre!
4191 - Mixed Upland Deciduous with Conifer	High Density Pole	27.9	82	111-140	Upland Mackinac Mix stand. Should be harvested but no legal access to this stand.
6123 - Lowland Fir	High Density Pole	38.7	91		I was here ten years ago. Lots of balsam and some paper birch. No legal access.
6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	15.9	86	51-80	Poor quality lowland Mackinac Mix. Fair amount of cedar in the stand. Extremely wet looking.
4110 - Sugar Maple Association	High Density Log	68.5	78	141-170	Awesome sugar maple stand. Needs to be cut but no legal access.
4134 - Aspen, Spruce/Fir	High Density Sapling	28.5	18		No legal access to this stand.
6120 - Lowland Cedar	High Density Pole	23.6	121		No Legal Access to this stand.
6124 - Lowland Spruce-Fir	High Density Pole	20.5	94		No legal access to this stand.
4191 - Mixed Upland Deciduous with Conifer	High Density Pole	11.0	82	111-140	Upland Mackinac Mix stand. Should be harvested but no legal access to this stand.
6112 - Lowland Aspen	High Density Pole	17.6	84		No legal access to this stand.
4130 - Aspen	High Density Sapling	23.6	3		Regen is doing great. About 10' tall. Very little conifer present.
6120 - Lowland Cedar	High Density Pole	15.5	121		No legal access to this stand.
4119 - Mixed Northern Hardwoods	High Density Log	55.1	93	111-140	Part of this stand was thinned last entry. However there is a decent amount of white ash and beech present in the previous harvest area. The unharvested portion is in need of a regular thinning. A ridge of red maple and spruce fir separate these two areas. Heavy deer browse within the stand.
6112 - Lowland Aspen	High Density Pole	9.6	84		No legal access to this stand.
4113 - R.Maple, Conifer	Medium Density Pole	11.0	91		No legal access to this stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
90	4134 - Aspen, Spruce/Fir	High Density Sapling	63.2	26		Aspen is doing great. About 30' tall. Lots of spruce and balsam in places.
91	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	2.3	64	81-110	Very small lot. Very wet also. Not sure what to do with it.
92	6120 - Lowland Cedar	High Density Pole	9.1	121		No legal access to this stand.
93	6120 - Lowland Cedar	High Density Pole	17.1	116		Almost pure cedar, a few scatter red maple. Tons of deer sign. Nice thick canopy.
94	42340 - Upland Spruce/Fir	High Density Pole	8.5	75		Nice spruce, fir stand with some scattered maple. This stand is a nice little ridge right on the shore of Brown Lake. This is the only upland ground on the shore of the lake.
95	6120 - Lowland Cedar	High Density Pole	12.1	94	81-110	A somewhat sparcer cedar stand than others in the area. Lots of deer sign.
96	4110 - Sugar Maple Association	High Density Log	17.8	89	141-170	Nice Maple stand. Not alot of beech. No legal access to this stand for a timber sale.
97	6120 - Lowland Cedar	High Density Pole	22.3	115		Really dense cedar stand. Small diameters. Almost a pure cedar stand except for some scattered red maple and paper birch. Stand data taken from pre-inv stand 101. This is all the same cedar stan around the south and eastern shores of Brown Lake.
98	6120 - Lowland Cedar	High Density Pole	26.1	115		Really dense cedar stand. Small diameters. Almost a pure cedar stand except for some scattered red maple and paper birch.
99	6120 - Lowland Cedar	High Density Pole	12.6	115		Really dense cedar stand. Small diameters. Almost a pure cedar stand except for some scattered red maple and paper birch. Data taken from pre-inv stand 101.
100	6139 - Mixed Lowland Forest	High Density Pole	27.7	75	111-140	Wet mackinac mix stand. Far eastern corner is upland hardwood but it is a small patch. It would be nice to harvest this stand but land owner to the SE has denied access in the past. Going along the pipeline from Burton's road isn't an option.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	629 - Mixed non-forested wetland	20.7	Unspecified	Unspecified	
5	622 - Lowland Shrub	22.7	Unspecified	Unspecified	
9	623 - Emergent Wetland	27.4	Unspecified	Unspecified	
10	310 - Herbaceous Openland	1.8	Unspecified	Unspecified	
12	310 - Herbaceous Openland	14.4	Unspecified	Unspecified	
13	623 - Emergent Wetland	7.4	Unspecified	Unspecified	
15	622 - Lowland Shrub	31.7	Unspecified	Unspecified	
17	623 - Emergent Wetland	2.8	Unspecified	Unspecified	
22	623 - Emergent Wetland	8.9	Unspecified	Unspecified	
24	622 - Lowland Shrub	11.2	Unspecified	Unspecified	
25	310 - Herbaceous Openland	9.8	Unspecified	Unspecified	
28	310 - Herbaceous Openland	9.5	Unspecified	Unspecified	
34	310 - Herbaceous Openland	9.4	Unspecified	Unspecified	
35	320 - Upland Shrub	5.0	Unspecified	Unspecified	
36	622 - Lowland Shrub	95.6	Unspecified	Unspecified	
37	310 - Herbaceous Openland	4.2	Unspecified	Unspecified	
41	320 - Upland Shrub	6.5	Unspecified	Unspecified	
46	330 - Low-Density Trees	3.9	Unspecified	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
50	622 - Lowland Shrub	5.2	Unspecified	Unspecified	
53	623 - Emergent Wetland	3.1	Unspecified	Unspecified	
62	622 - Lowland Shrub	5.0	Unspecified	Unspecified	
64	122 - Road/Parking Lot	1.6	Unspecified	Unspecified	
71	622 - Lowland Shrub	23.6	Unspecified	Unspecified	
73	622 - Lowland Shrub	2.8	Unspecified	Unspecified	
76	622 - Lowland Shrub	6.7	Unspecified	Unspecified	
86	622 - Lowland Shrub	25.6	Unspecified	Unspecified	
89	622 - Lowland Shrub	7.9	Unspecified	Unspecified	