



**Newberry Forest Management Unit
Compartment Review Presentation**
Compartment #113 Entry Year: 2013
Compartment Acreage: 3529 County: Luce

Revision Date: 9/21/11

Stand Examiner: Don Kuhr & Amy Douglass

Legal Description: T46N R10W, Sections 1-3, 10-12, 13-15, 22 and 27

RMU (if applicable): This compartment is located within the Tahquamenon River Basin Wetlands Management Area. For further description of this management area, go to the following web site:
http://www.midnr.com/publications/pdfs/forestslandwater/Ecosystem/EUP/final-MAsummaries/29_Tahquamenon_River_Basin_Wetlands_MA_summary_3_6.pdf

Management Goals: Maintain forest productivity, forest health, species diversification, and age class diversification through silvicultural and natural processes.

Soil and Topography: The majority of the compartment consists of lowland swamp conifer and lowland aspen types on outwash plains. The associated soils are primarily Carbondale, Lupton, and Tawas soils with Spot-Finch complex, Markey muck, Tawas-Spot-Finch complex and Kinross-Au Gres complex. Some transitional areas of aspen and hardwood consist of Auger Annanias silt loams and Noseum fine sandy loam. The scattered high ground, many of which are narrow ridges, are primarily aspen and spruce with additional acreage of plantation red pine and spruce. The associated soils for these types are Paquin sand, Rubicon sand, Wallace sand, Rousseau-Spot complex and Wallace-Spot complex.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State lands abut to the far east and far west. Private lands of all acreage sizes are intermixed along the M-123 corridor and other East-West roads off M-123. Year-round homes, seasonal camps, tree farms and agricultural lands are all found here. The Village of Newberry is approximately 1 mile to the south.

Unique, Natural Features: The potential exists for several threatened and endangered plant and animal species in this compartment, mostly associated with the lowland types. Osprey and eagles have been known to inhabit the area.

Archeological, Historical, and Cultural Features: Dollarville Dam is located in the southwest corner of the compartment.

Special Management Designations or Considerations: A corner of the Dollarville State Wildlife Area lies within the compartment. Most of the dam flooding lies to the west. A deer wintering area is located north of the Dollarville Dam, covering the southern half of the western portion of the compartment. An OI Special Conservation Area is proposed for removal due to its' overlap with the Deer Wintering Area designation.

Watershed and Fisheries Considerations:

Fisheries Values: Good-to-Excellent

Fisheries Concerns: This compartment contains McDermon Lake and Otto Brandt Creek. There are no files on McDermon Lake. Otto Brandt Creek is a cold transitional stream and supports brook trout. Prescribed treatment areas adjacent to Otto Brandt Creek should maintain 100' buffer, consistent with BMP's. This

creek flows into the Tahquamenon River outside the compartment, but still needs to have appropriate protection because of sediment loading concerns.

Wildlife Habitat Considerations: Compartment 113 lies in central Luce county in the Seney Sand Lake Plain ecological sub-subsection. The compartment has a high level of diversity within and among stands with a most of the compartment being made up of various lowland types (deciduous and coniferous). The Tahquamenon river runs through the southern portions of the compartment and serves as a wildlife travel corridor.

Wildlife objectives will be met by leaving behind a few scattered trees in final harvested stands. For example, aspen and birch will serve as future den and nest trees for marten (featured species) and flying squirrels and cavity nesting species such as woodpeckers, northern flickers, flycatchers, chickadees and saw-whet owls. Retained spruce will act as seed sources for birds and mammals and resting trees for fisher and marten as well as structural diversity for many species including deer and bobcat. Trails will have standing trees left along them to maintain travel corridors for wildlife including black bear (featured species) and deer. Lowland aspen types that are harvested will provide food sources for many early successional species including deer, moose (featured species), ruffed grouse (featured species) and hare.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of peat and muck and coarse-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Ordovician Stonington Formation and Utica Shale subcrop below the glacial drift. The Stonington could be used for stone. Gravel pits are located one mile to the south and potential may be good in Section 2. There is no economic oil and gas production in the UP.

Vehicle Access: Access to the northwestern part of the compartment is okay via county roads, but access to many stands also cross private lands. The eastern portion of the compartment is accessed by Charcoal Grade and a couple woods roads off the grade, as well as access points through private lands to the north off M-123. The southwestern portion of the compartment has limited access by the Dollarville Dam, with no other access to the large swamp portions to the north.

Survey Needs: The isolated parcel north of the railroad tracks in Section 27 needs a survey for timber purposes, as long as access through private land is granted. A survey may be needed in Section 13 for timber purposes to secure the west line of state land against private lands.

Recreational Facilities and Opportunities: Snowmobile trail number 9 and 45 travel through the compartment. The Silver Creek ORV Trailhead is located just to the west of the compartment. Dollarville Dam provides boating access to both the flooding and the Tahquamenon River below the dam. The dam and the river are primarily used for fishing, canoeing, waterfowl hunting and trapping.

Fire Protection: The potential for large fire growth in this compartment is low because of the lowland of conifer and hardwood cover types. Much of the compartment is inaccessible with heavy equipment. Most fires should be low intensity surface fires with slow rates of spread and may require modified suppression tactics.

Additional Compartment Information: A 120 acre parcel was acquired in 2006, essentially the S ½ of the S ½ of Section 13.

- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **Dedicated and Proposed Special Conservation Areas**

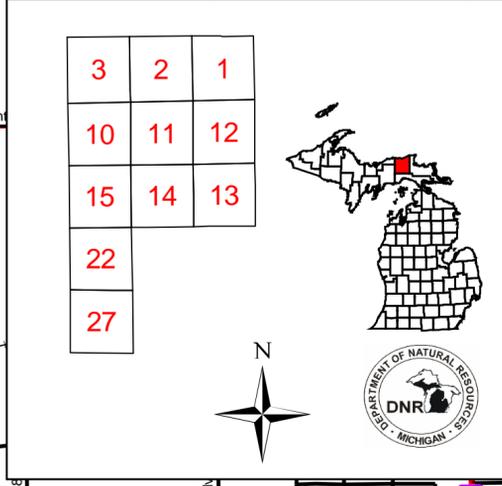
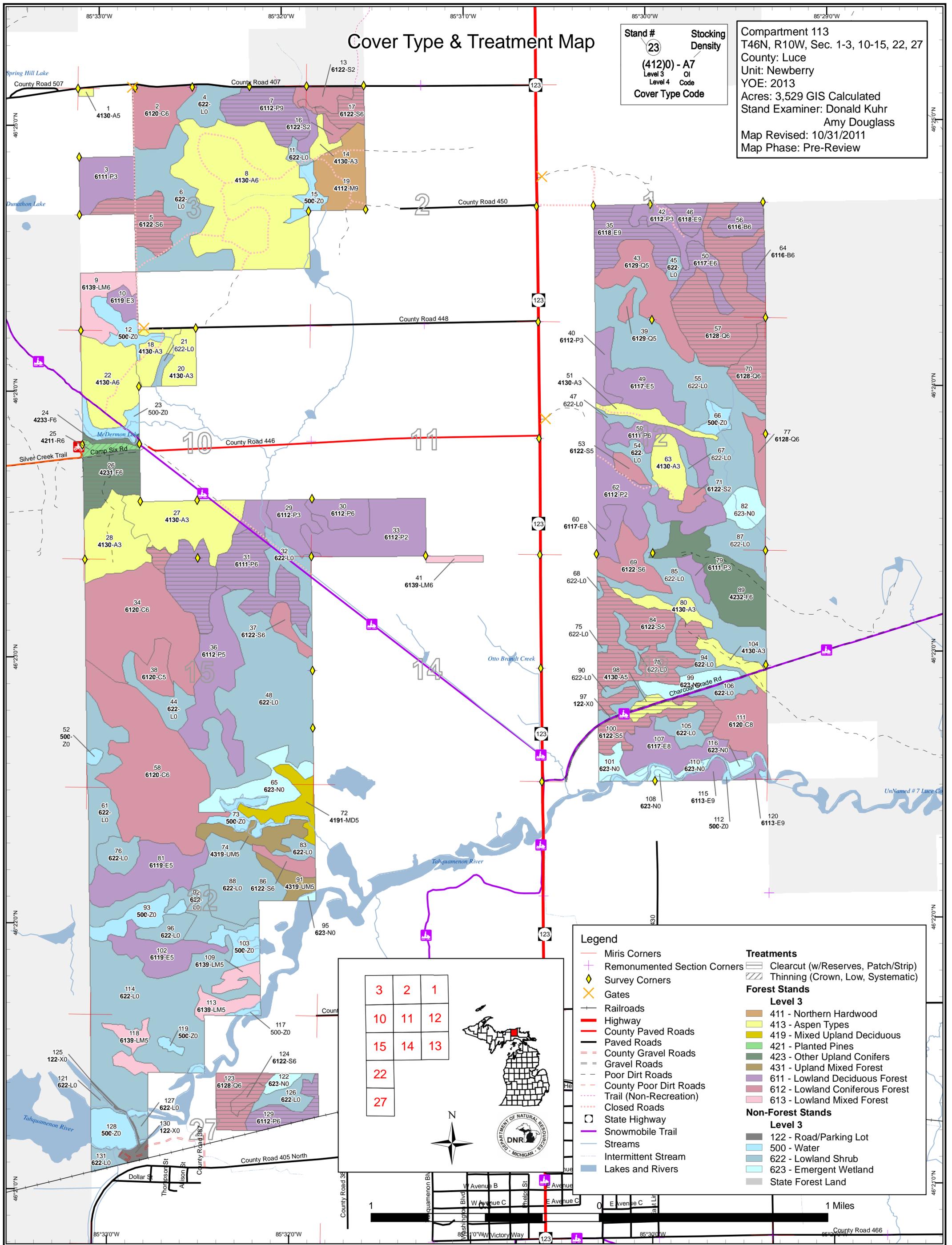
- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**

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Cover Type & Treatment Map

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

Compartment 113
 T46N, R10W, Sec. 1-3, 10-15, 22, 27
 County: Luce
 Unit: Newberry
 YOE: 2013
 Acres: 3,529 GIS Calculated
 Stand Examiner: Donald Kuhr
 Amy Douglass
 Map Revised: 10/31/2011
 Map Phase: Pre-Review



Legend

- Miris Corners
- Remonumented Section Corners
- Survey Corners
- Gates
- Railroads
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- State Highway
- Snowmobile Trail
- Streams
- Intermittent Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)

Forest Stands

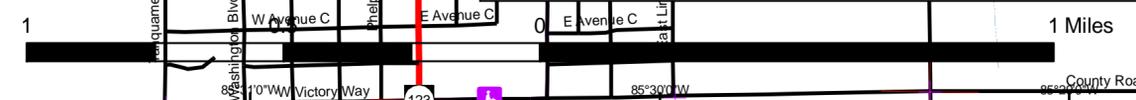
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 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

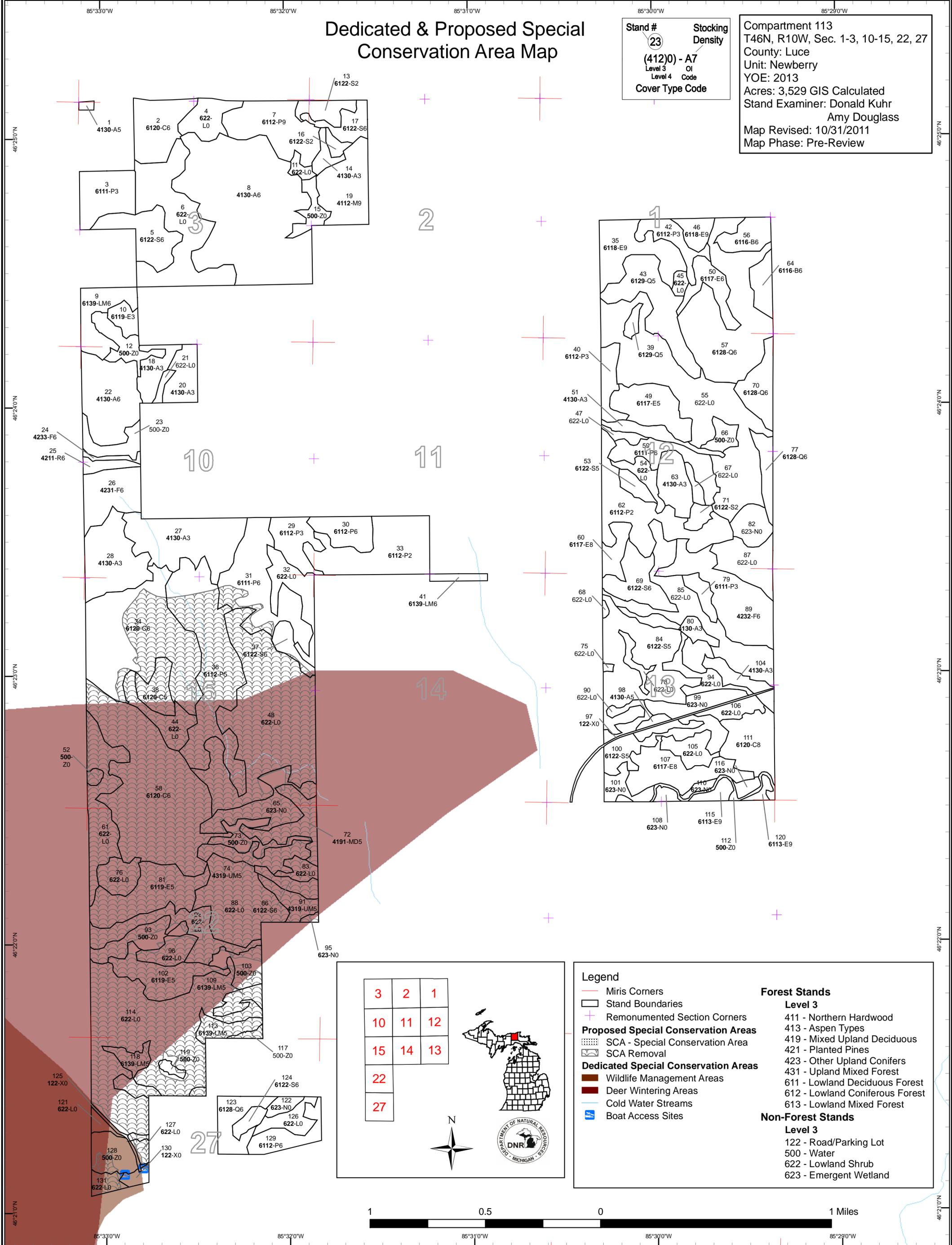
- 122 - Road/Parking Lot
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- State Forest Land



Dedicated & Proposed Special Conservation Area Map

Stand #
 (412)0 - A7
 Level 3
 Level 4
 Cover Type Code

Compartment 113
 T46N, R10W, Sec. 1-3, 10-15, 22, 27
 County: Luce
 Unit: Newberry
 YOE: 2013
 Acres: 3,529 GIS Calculated
 Stand Examiner: Donald Kuhr
 Amy Douglass
 Map Revised: 10/31/2011
 Map Phase: Pre-Review



Legend

- Miris Corners
- Stand Boundaries
- Remonumented Section Corners
- Proposed Special Conservation Areas
 - SCA - Special Conservation Area
 - SCA Removal
- Dedicated Special Conservation Areas
 - Wildlife Management Areas
 - Deer Wintering Areas
 - Cold Water Streams
 - Boat Access Sites

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 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
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

3	2	1
10	11	12
15	14	13
22		
27		

DEPARTMENT OF NATURAL RESOURCES
 DNR
 MICHIGAN

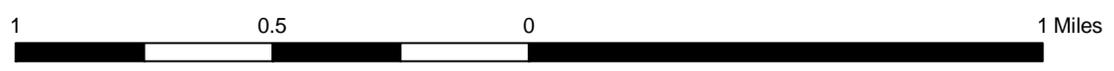


Table 1 – Total Acres by Cover Type and Age Class



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Uneven Age
Aspen	0	111	12	267	0	2	9	0	0	0	0	0	0	0	53	454
Cedar	0	0	0	0	0	0	0	0	0	0	0	35	328	0	0	363
Lowland Aspen/Balsam Poplar	0	145	31	37	0	20	19	0	46	65	0	0	0	0	129	494
Lowland Conifers	0	0	0	0	0	0	0	0	22	52	35	0	0	97	0	205
Lowland Deciduous	0	0	0	0	0	0	0	81	152	10	0	0	0	0	9	252
Lowland Mixed Forest	0	0	0	0	0	0	0	15	53	0	0	0	0	0	0	68
Lowland Shrub	976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	976
Lowland Spruce/Fir	0	6	0	0	0	12	0	0	26	114	28	0	0	0	57	244
Marsh	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	23
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	40
Paper Birch	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	30
Red Pine	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	33
Upland Spruce/Fir	0	0	0	0	0	0	33	3	0	0	0	0	0	0	58	94
Urban	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Water	141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141
Total	1222	263	44	304	0	34	67	100	386	241	103	35	328	97	306	3529



Table 2 – Proposed Treatment Summaries

Newberry Mgt. Unit
Year of Entry 2013

Compartment 113
Total Compartment Acres: 3529

Acres by Treatment Type

Commercial Harvest - 609	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	9	0	0	0	0	0	9
Lowland Aspen/Balsam Poplar	157	0	0	0	0	0	157
Lowland Conifers	139	0	0	0	0	0	139
Lowland Deciduous	68	0	0	0	0	0	68
Lowland Spruce/Fir	165	0	0	0	0	0	165
Paper Birch	30	0	0	0	0	0	30
Red Pine	0	0	0	0	7	0	7
Upland Spruce/Fir	36	0	0	0	0	0	36
Total	603	0	0	0	7	0	609



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	42113005-Cut	31.1	6122 - Black Spruce	High Density Pole	92	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all species except white pine where present. Leave some trees along the N-S trail road to help protect the wildlife corridor. Leave scattered <u>Specs:</u> (approx. 1 tree/5 acres) white birch, aspen & conifer for additional retention and wildlife values.</p> <p><u>Other</u> Access has been adequate through private road. <u>Comments:</u></p> <p><u>Next</u> Regeneration survey per Work Instructions. Acceptable regeneration includes black spruce, balsam, aspen and white birch. <u>Steps:</u></p>									
7	42113007-Cut	41.0	6112 - Lowland Aspen	High Density Log	70	Harvest	Clearcut with Reserves	6112 - Lowland Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all species. Retain pockets of low ground for retention. Leave some mature aspen along younger aspen on southern edge. These can be red <u>Specs:</u> lined trees. Buffer stream on east side by 100 feet.</p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> Regeneration survey per Work Instructions. Acceptable regeneration includes aspen, white birch, red maple, spruce and balsam. <u>Steps:</u></p>									
17	42113017-Cut	13.1	42320 - Upland Spruce	High Density Pole	77	Harvest	Clearcut with Reserves	42320 - Upland Spruce	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all species except white pine and hemlock. Retention includes west finger/stream buffer. <u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> Regeneration survey per Work Instructions. Acceptable regeneration includes spruce, balsam, aspen, white birch, red maple and white pine. <u>Steps:</u></p>									
24	42113024-Cut	3.2	42330 - Upland Fir	High Density Pole	60	Harvest	Clearcut	42330 - Upland Fir	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all species. No retention due to small size. <u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> Regeneration survey per Work Instructions. Acceptable regeneration includes spruce, balsam, aspen, white birch and red maple. <u>Steps:</u></p>									
25	42113025-Cut	6.5	42110 - Planted Red Pine	High Density Pole	50	Harvest	Low Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Second thinning. Mark trees down to approx. 100 - 120 residual BA. <u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p>									
26	42113026-Cut	32.6	42310 - Planted Spruce	High Density Pole	50	Harvest	Clearcut	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all species. No retention to maximize aspen regeneration. Leave a few (approx. 1 tree/5 acres) mature spruce (with live branches down to <u>Specs:</u> near ground level) in areas heavier to spruce (not to impede aspen regeneration).</p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> Regeneration survey per Work Instructions. Let aspen regenerate where possible. Aspen mixed with spruce, balsam, red maple are acceptable <u>Steps:</u> species. If areas exist without adequate aspen regeneration, trench and plant to red pine.</p>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
31	42113031-Cut	54.4	6111 - Lowland Balsam Poplar	High Density Pole	80	Harvest	Clearcut with Reserves	6111 - Lowland Balsam Poplar	Cmpt. Review Proposal
<p><u>Prescription:</u> Cut all species. Retention will be along creek (be sure to buffer by 100 feet). Leave some trees along the snowmobile trail road to help protect the wildlife corridor. Leave scattered (approx. 1 tree/5 acres) white birch, aspen & conifer for additional retention and wildlife values.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Lots of blowdown.</p> <p><u>Next Steps:</u> Regeneration survey per Work Instructions. Acceptable regeneration includes balsam poplar, aspen, white birch, balsam fir and spruce.</p>									
35	42113035-Cut	39.5	6118 - Lowland Deciduous with Cedar	High Density Log	79	Harvest	Clearcut with Reserves	6118 - Lowland Deciduous with Cedar	Cmpt. Review Proposal
<p><u>Prescription:</u> Cut all trees except white pine, hemlock and yellow birch where present. Pockets of heavier cedar may be left for retention.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Cedar regeneration is very good here. This is an uncut portion of 4-Mile Birch (#024-03-01). Will need to be winter harvested. Access through private has been adequate.</p> <p><u>Next Steps:</u> Regeneration survey per Work Instructions. Acceptable regeneration includes aspen, balsam poplar, white birch, red maple, cedar, balsam fir and spruce.</p>									
36	42113036-Cut	42.1	6112 - Lowland Aspen	Medium Density Pole	85	Harvest	Clearcut with Reserves	6112 - Lowland Aspen	Cmpt. Review Proposal
<p><u>Prescription:</u> Cut all species. Retention will be in southern portion of stand that is not harvested. Leave scattered (approx. 1 tree/5 acres) white birch, aspen & conifer for additional retention and wildlife values. Leave some mature aspen along younger aspen on northern edge. These can be red lined trees.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Regeneration survey per Work Instructions. Acceptable regeneration includes aspen, balsam poplar, white birch, black spruce and balsam fir.</p>									
46	42113046-Cut	10.4	6118 - Lowland Deciduous with Cedar	High Density Log	79	Harvest	Clearcut with Reserves	6118 - Lowland Deciduous with Cedar	Cmpt. Review Proposal
<p><u>Prescription:</u> Cut all trees except white pine, hemlock and yellow birch where present. Pockets of heavier cedar may be left for retention.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Cedar regeneration is very good here. This is an uncut portion of 4-Mile Birch (#024-03-01). Will need to be winter harvested. Access through private has been adequate.</p> <p><u>Next Steps:</u> Regeneration survey per Work Instructions. Acceptable regeneration includes aspen, balsam poplar, white birch, red maple, cedar, balsam fir and spruce.</p>									
50	42113050-Cut	18.2	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	74	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<p><u>Prescription:</u> Cut all trees except white pine, hemlock and yellow birch where present. Pockets of heavier cedar may be left for retention.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> High ridge of east side - mainly white birch and white spruce. Lower ground has more cedar component. Cedar regeneration is very good here. This is an uncut portion of 4-Mile Birch (#024-03-01). Will need to be winter harvested. Access through private has been adequate.</p> <p><u>Next Steps:</u> Regeneration survey per Work Instructions. Acceptable regeneration includes aspen, balsam poplar, white birch, red maple, cedar, balsam fir and spruce.</p>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
56	42113056-Cut	16.6	6116 - Lowland Birch	High Density Pole	74	Harvest	Clearcut with Reserves	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all trees except white pine, hemlock and yellow birch where present. Retention will be along the small intermittent stream.</p> <p><u>Specs:</u></p> <p><u>Other</u> Cedar regeneration is very good here. This is an uncut portion of 4-Mile Birch (#024-03-01). Will need to be winter harvested. Access through <u>Comments:</u> private has been adequate.</p> <p><u>Next</u> Regeneration survey per Work Instructions. Acceptable regeneration includes aspen, balsam poplar, white birch, red maple, cedar, balsam fir <u>Steps:</u> and spruce.</p>									
57	42113057-Cut	96.5	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	123	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all trees except white pine, hemlock and yellow birch where present. Pockets of heavier cedar will be left for retention. (Two cedar pockets <u>Specs:</u> had been previously delineated.) Retention pocket(s) should include other species as well. Buffer the small intermittent stream where present. Leave scattered (approx. 1 tree/5 acres) white birch, aspen, maple & conifer for additional retention and wildlife values.</p> <p><u>Other</u> Cedar regeneration is very good here. This is an uncut portion of 4-Mile Birch (#024-03-01). Will need to be winter harvested. Access through <u>Comments:</u> private has been adequate.</p> <p><u>Next</u> Regeneration survey per Work Instructions. Acceptable regeneration includes aspen, balsam poplar, white birch, red maple, cedar, balsam fir <u>Steps:</u> and spruce.</p>									
64	42113064-Cut	13.0	6116 - Lowland Birch	High Density Pole	74	Harvest	Clearcut with Reserves	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all trees except white pine, hemlock and yellow birch where present. Retention will be along the small intermittent stream.</p> <p><u>Specs:</u></p> <p><u>Other</u> Cedar regeneration is very good here. This is an uncut portion of 4-Mile Birch (#024-03-01). Will need to be winter harvested. Access through <u>Comments:</u> private has been adequate.</p> <p><u>Next</u> Regeneration survey per Work Instructions. Acceptable regeneration includes aspen, balsam poplar, white birch, red maple, cedar, balsam fir <u>Steps:</u> and spruce.</p>									
70	42113070-Cut	22.4	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	96	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all trees except white pine, hemlock and yellow birch where present. Pockets of heavier cedar may be left for retention.</p> <p><u>Specs:</u></p> <p><u>Other</u> Cedar regeneration is good in this area. Access through private has been adequate. <u>Comments:</u></p> <p><u>Next</u> Regeneration survey per Work Instructions. Acceptable regeneration includes aspen, balsam poplar, white birch, red maple, cedar, balsam fir <u>Steps:</u> and spruce.</p>									
84	42113084-Cut	86.4	6122 - Black Spruce	Medium Density Pole	87	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all species except white pine where present. Stand is variable and mixed with low- to non-stocked areas that are difficult to discern. Leave <u>Specs:</u> scattered spruce for seed. Leave some mature aspen, where present, along young aspen stands.</p> <p><u>Other</u> Will need to be winter harvested. Includes some small upland pockets. <u>Comments:</u></p> <p><u>Next</u> Regeneration survey per Work Instructions. Acceptable regeneration includes black spruce, balsam, aspen and white birch. <u>Steps:</u></p>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
98	42113098-Cut	8.9	4130 - Aspen	Medium Density Pole	56	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription: Cut all trees except white pine and red pine. Leave some small (could be sub-merchantable) spruce.

Specs:

Other

Comments:

Next Steps: Regeneration survey per Work Instructions. Acceptable regeneration includes aspen, white birch, red maple, balsam fir, spruce, white pine and red pine.

100	42113100-Cut	27.4	6122 - Black Spruce	Medium Density Pole	85	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
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Prescription: Cut all trees except white pine and hemlock where present. Leave scattered (approx. 1 tree/5 acres) deciduous & mature spruce for additional retention and wildlife values.

Specs:

Other

Comments:

Next Steps: Regeneration survey per Work Instructions. Acceptable regeneration includes black spruce, balsam, tamarack, aspen and white birch.

**Total Treatment
Acreage Proposed: 563.2**



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
123	42113123-Cut	20.3	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	73	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all species except white pine, cedar, hemlock and yellow birch where present. Leave 300 foot buffer along Tahquamenon River. Leave a white birch component (approx. 1 tree/5 acres).</p> <p><u>Specs:</u></p> <p><u>Other</u> Access will need to be sought through Private.</p> <p><u>Comment:</u></p> <p><u>Next</u> Regeneration survey per Work Instructions. Acceptable regeneration includes tamarack, spruce, balsam fir, cedar, aspen, balsam poplar, white birch and red maple.</p> <p><u>Steps:</u></p> <p><u>Limiting Factor and No</u> 2A: Adjacent landowner denies <u>Treatment Reason</u> access Access is through Private either from the north or the south. Will have to be worked out.</p>									
124	42113124-Cut	6.7	6122 - Black Spruce	High Density Pole	73	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all trees except cedar and white pine where present.</p> <p><u>Specs:</u></p> <p><u>Other</u> Access will need to be sought through Private.</p> <p><u>Comment:</u></p> <p><u>Next</u> Regeneration survey per Work Instructions. Acceptable regeneration includes black spruce, balsam, red maple, aspen and white birch.</p> <p><u>Steps:</u></p> <p><u>Limiting Factor and No</u> 2A: Adjacent landowner denies <u>Treatment Reason</u> access Access is through Private either from the north or the south. Will have to be worked out.</p>									
129	42113129-Cut	19.2	6112 - Lowland Aspen	High Density Pole	56	Harvest	Clearcut with Reserves	6112 - Lowland Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all species except elm. Leave scattered (approx. 1 tree/5 acres) mature aspen & conifer for additional retention and wildlife values.</p> <p><u>Specs:</u></p> <p><u>Other</u> Access will need to be sought through Private.</p> <p><u>Comment:</u></p> <p><u>Next</u> Regeneration survey per Work Instructions. Acceptable regeneration includes aspen, balsam poplar, white birch, red maple, cedar, balsam fir and spruce.</p> <p><u>Steps:</u></p> <p><u>Limiting Factor and No</u> 2A: Adjacent landowner denies <u>Treatment Reason</u> access Access is through Private either from the north or the south. Will have to be worked out.</p>									
Total Treatment Acreage Proposed:		46.2							

**Out of YOE -- Treatments
Prescribed with No Limiting Factor**

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
42045001-Cut	3.9	42210 - Natural Red Pine	High Density Log	89	Harvest	Seed Tree	42210 - Natural Red Pine	Cmpt. Review Proposal
<p><u>Prescription:</u> Harvest site to imitate a catastrophic crown fire by "clear-cutting all but a patchy mosaic of pine trees and clumps of trees to serve as seed trees"</p> <p><u>Specs:</u> (MNFI). Focus on the 8-18 inch DBH class. Residual BA 10-20 to allow for successful pine regeneration.</p> <p><u>Other Comments:</u> This stand is identified by MNFI as a Dry Northern Forest. Move some of the Hemlock and Yellow Birch logs into stand 34 for Hemlock regeneration nurse logs.</p> <p><u>Next Steps:</u> Burn the harvested area in the spring to reduce slash, hardwood competition, and to expose the mineral soil. This should be done within 2-3 years after the completion of any harvesting activities. If the site is not burned within the time frame, scarify site to promote pine regeneration. If scarification fails, plant red pine. Acceptable regeneration mix is RP and a small component of WP.</p>								

**Total Treatment
Acreage Proposed: 3.9**



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	Medium Density Pole	1.5	45		Small in-holding.
2	6120 - Lowland Cedar	High Density Pole	34.8	101		Not quality cedar poles. Cedar regen present.
3	6111 - Lowland Balsam Poplar	High Density Sapling	31.4	17		regenerating
5	6122 - Black Spruce	High Density Pole	31.1	Uneven Age	81-110	overmature
7	6112 - Lowland Aspen	High Density Log	46.1	70		Some upland along road. Mostly transitional ground.
8	4130 - Aspen	High Density Pole	180.4	23	1-50	regenerating
9	6139 - Mixed Lowland Forest	High Density Pole	25.7	72		Previous inventory indicates beaver activity selectively harvesting the aspen.
10	6119 - Mixed Lowland Deciduous Forest	High Density Sapling	8.9	Uneven Age		regenerating unspecified species is tag alder. Some aspen along upland edge.
13	6122 - Black Spruce	Medium Density	12.5	40		treed bog
14	4130 - Aspen	High Density Sapling	6.8	6		
16	6122 - Black Spruce	Medium Density	4.3	Uneven Age		regenerating
17	6122 - Black Spruce	High Density Pole	14.4	Uneven Age	111-140	could be upland
18	4130 - Aspen	High Density Sapling	15.5	7		Cut as part of 448 Aspen #022-03-01.
19	4112 - Maple, Beech, Cherry Association	High Density Log	40.5	92	51-80	aspen, cherry, red maple regen
20	4130 - Aspen	High Density Sapling	19.0	24		regenerating
22	4130 - Aspen	High Density Pole	52.7	Uneven Age	1-50	regenerating
24	42330 - Upland Fir	High Density Pole	3.2	60	81-110	
25	42110 - Planted Red Pine	High Density Pole	6.5	50	171-200	marked

S t a n d	Newberry Mgt. Unit		5 – Forested Stands			Compartment: 113 Year of Entry: 2013	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		
26	42310 - Planted Spruce	High Density Pole	32.6	50	141-170		scattered aspen
27	4130 - Aspen	High Density Sapling	63.0	3			
28	4130 - Aspen	High Density Sapling	46.8	21			regenerating
29	6112 - Lowland Aspen	High Density Sapling	22.5	25			
30	6112 - Lowland Aspen	High Density Pole	20.3	41			
31	6111 - Lowland Balsam Poplar	High Density Pole	65.1	80	51-80		lots of blowdown
33	6112 - Lowland Aspen	Medium Density	60.8	3			
34	6120 - Lowland Cedar	High Density Pole	122.1	116	171-200		no deer, bunny tracks
35	6118 - Lowland Deciduous with Cedar	High Density Log	39.5	79			Nice cedar regen present from 3' - 5', 5' - 10' on up. Unharvested portion of 4-Mile Birch Sale (#024-03-01).
36	6112 - Lowland Aspen	Medium Density Pole	102.6	Uneven Age	1-50		dying wet aspen
37	6122 - Black Spruce	High Density Pole	10.2	70	141-170		
38	6120 - Lowland Cedar	Medium Density Pole	17.0	116			
39	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	4.2	87			
40	6112 - Lowland Aspen	High Density Sapling	14.3	24			Not as clean cut on the south end as the north.
41	6139 - Mixed Lowland Forest	High Density Pole	4.9	72			Small, misc ownership piece.
42	6112 - Lowland Aspen	High Density Sapling	16.8	3			A small portion of the stand as entered from PVT is upland, but is mainly lower ground. Some nice cedar regen present 5' - 10' tall. Sale was harvested as part of 4-Mile Birch Sale (#024-03-01). Some residual trees including cedar, red maple, aspen and balm present.
43	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	47.6	87			Smaller trees along non-timbered edge. Mix of cedar and spruce.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	6118 - Lowland Deciduous with Cedar	High Density Log	10.4	79		Lots of cedar regen present from 3' - 5', 5' to 10' on up. Unharvested portion of 4-Mile Birch Sale (#024-03-01).
49	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	33.1	70		Scattered merchantable trees.
50	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	18.2	74		High ridge on east side - mainly white birch and white spruce. Lower ground has more cedar component. Good cedar regen present in all sizes (3' - 5', 5' - 10', on up). Uncut portion of 4-Mile Birch Sale (#24-03-01).
51	4130 - Aspen	High Density Sapling	12.2	13		High narrow ridge. Some scattered balsam and spruce residual poles.
53	6122 - Black Spruce	Medium Density Pole	7.4	Uneven Age	51-80	boggy soil
56	6116 - Lowland Birch	High Density Pole	16.6	74		Transitional ground. Good cedar regen 3' - 5' tall. Unharvested portion of 4-Mile Birch Sale (#024-03-01). Small intermittent stream present.
57	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	96.5	123		Nice cedar regen present (3' - 5' tall on up). A true variety of sized. Lots of saps mixed with poles. Occasional small pockets of large diameter white pine or hemlock. Portion of stand is unharvested portion of 4-Mile Birch Sale (#024-03-01). Small intermittent stream present.
58	6120 - Lowland Cedar	High Density Pole	155.1	116		Previous inventory indicates very wet stand surrounded by several drainages.
59	6111 - Lowland Balsam Poplar	High Density Pole	26.8	Uneven Age	1-50	
60	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	12.5	74		Scattered merchantable timber. Wet ground.
62	6112 - Lowland Aspen	Medium Density	59.2	4		sale 25-03, white pine ridge on east end
63	4130 - Aspen	High Density Sapling	21.0	24		On edge between sapling and pole size.
64	6116 - Lowland Birch	High Density Pole	13.0	74		Transitional ground. Good cedar regen 3' - 5' tall. Unharvested portion of 4-Mile Birch Sale (#024-03-01). Small intermittent stream present.
69	6122 - Black Spruce	High Density Pole	27.8	90		some ridges within stand
70	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	22.4	96		

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Newberry Mgt. Unit

5 – Forested Stands

Compartment: 113
Year of Entry: 2013

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
71	6122 - Black Spruce	Medium Density	6.2	4		Some upland. Stand lines are best guess between 'upland' aspen and 'lowland' spruce/aspen. Sparsely stocked - regen is slower than 'upland' portion, but is still adequate. White Pine left as residual.
72	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	23.4	70		Previous inventory indicates beaver activity
74	4319 - Mixed Upland Forest	Medium Density Pole	20.8	70		Mix of red pine, white pine, jack pine, balsam, spruce, birch, red maple and aspen.
77	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	12.5	96		
79	6111 - Lowland Balsam Poplar	High Density Sapling	8.5	5		sale 26-03
80	4130 - Aspen	High Density Sapling	12.6	5		sale 26-03
81	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	48.8	64		Previous inventory indicates very wet site with dead and dying white birch, along with beaver activity.
84	6122 - Black Spruce	Medium Density Pole	86.4	87		Lowland black spruce complex. Scattered ridges occur as well as low- to non-stocked areas. Spruce varies in age.
86	6122 - Black Spruce	High Density Pole	9.5	70		
89	42320 - Upland Spruce	High Density Pole	57.9	Uneven Age	81-110	Upland ridge gradiating into lowland. Was cut as part of 26-77-01.
91	4319 - Mixed Upland Forest	Medium Density Pole	12.4	70		Ridges of birch, red maple, spruce and fir iwth some lower areas heavier to black spruce
98	4130 - Aspen	Medium Density Pole	8.9	56		High, rolling sandy ground. Scattered white pine and red pine logs. Gradiates to black spruce.
100	6122 - Black Spruce	Medium Density Pole	27.4	85		
102	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	32.6	64		Previous inventory indicates very wet site with dead and dying white birch along with beaver activity.
104	4130 - Aspen	High Density Sapling	13.4	5		sale 26-03
107	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	38.3	73		Low ground. Aspen has been falling out over the years.

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Newberry Mgt. Unit

5 – Forested Stands

Compartment: 113
Year of Entry: 2013

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
109	6139 - Mixed Lowland Forest	Medium Density Pole	9.9	70		Previous inventory notes indicate beaver activity. Includes low sand ridge, but mainly lowland. Areas heavier to black spruce.
111	6120 - Lowland Cedar	Medium Density Log	33.8	111		
113	6139 - Mixed Lowland Forest	Medium Density Pole	12.6	70		Previous inventory notes indicate beaver activity. Includes low sand ridge, but mainly wetland. Semi-open inclusions.
115	6113 - Lowland Maple	High Density Log	6.4	85		Tahquamenon River floodplain
118	6139 - Mixed Lowland Forest	Medium Density Pole	15.3	64		Previous inventory notes of beaver activity; and dead and dying birch due to high water table. Includes a low sand ridge, but mainly lowland.
120	6113 - Lowland Maple	High Density Log	3.5	85		Tahquamenon River floodplain
123	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	21.9	73		wet spots, lots of volume
124	6122 - Black Spruce	High Density Pole	6.7	73	81-110	
129	6112 - Lowland Aspen	High Density Pole	19.2	56		aspen falling over



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	622 - Lowland Shrub	19.0	N/A	Unspecified	
6	622 - Lowland Shrub	74.5	N/A	Unspecified	
11	622 - Lowland Shrub	4.5	N/A	Unspecified	
12	50 - Water	16.8	N/A	Unspecified	Flooded area
15	50 - Water	11.2	N/A	Unspecified	Beaver flooding
21	622 - Lowland Shrub	3.1	N/A	Unspecified	
23	50 - Water	13.3	N/A	Unspecified	McDermon Lake
32	622 - Lowland Shrub	25.0	N/A	Unspecified	Includes the upper reaches of Otto Brandt Creek
44	622 - Lowland Shrub	20.4	N/A	Unspecified	
45	622 - Lowland Shrub	3.9	N/A	Unspecified	
47	622 - Lowland Shrub	4.2	N/A	Unspecified	
48	622 - Lowland Shrub	155.9	N/A	Unspecified	
52	50 - Water	2.7	N/A	Unspecified	
54	622 - Lowland Shrub	10.2	N/A	Unspecified	
55	622 - Lowland Shrub	133.4	N/A	Unspecified	
61	622 - Lowland Shrub	44.6	N/A	Unspecified	
65	623 - Emergent Wetland	32.4	N/A	Unspecified	
66	50 - Water	8.7	N/A	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
67	622 - Lowland Shrub	4.4	N/A	Unspecified	
68	622 - Lowland Shrub	1.0	N/A	Unspecified	
73	50 - Water	15.2	N/A	Unspecified	Ponds and drainage into Tahquamenon River
75	622 - Lowland Shrub	0.9	N/A	Unspecified	
76	622 - Lowland Shrub	15.4	N/A	Unspecified	
78	622 - Lowland Shrub	5.9	N/A	Unspecified	
82	623 - Emergent Wetland	15.5	N/A	Unspecified	
83	622 - Lowland Shrub	7.8	N/A	Unspecified	
85	622 - Lowland Shrub	57.8	N/A	Unspecified	Includes some upland ridges
87	622 - Lowland Shrub	27.4	N/A	Unspecified	
88	622 - Lowland Shrub	60.9	N/A	Unspecified	scattered trees
90	622 - Lowland Shrub	8.5	N/A	Unspecified	
92	622 - Lowland Shrub	36.5	N/A	Unspecified	
93	50 - Water	20.7	N/A	Unspecified	
94	622 - Lowland Shrub	13.9	N/A	Unspecified	
95	623 - Emergent Wetland	1.5	N/A	Unspecified	
96	622 - Lowland Shrub	13.7	N/A	Unspecified	scattered trees
97	122 - Road/Parking Lot	5.2	N/A	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
99	623 - Emergent Wetland	16.8	N/A	Unspecified	
101	623 - Emergent Wetland	11.0	N/A	Unspecified	lowlands along Taquamenon River
103	50 - Water	16.0	N/A	Unspecified	
105	622 - Lowland Shrub	14.7	N/A	Unspecified	
106	622 - Lowland Shrub	10.1	N/A	Unspecified	
108	623 - Emergent Wetland	3.6	N/A	Unspecified	Lowlands along Tahquamenon River
110	623 - Emergent Wetland	3.1	N/A	Unspecified	Lowlands along Tahquamenon River
112	50 - Water	8.0	N/A	Unspecified	Tahquamenon River
114	622 - Lowland Shrub	169.7	N/A	Unspecified	Large lowland complex. Scattered small upland islands within.
116	623 - Emergent Wetland	4.1	N/A	Unspecified	Lowlands along Tahquamenon River
117	50 - Water	4.2	N/A	Unspecified	Tahquamenon River and associated marshy edges.
119	50 - Water	2.9	N/A	Unspecified	
121	622 - Lowland Shrub	4.0	N/A	Unspecified	
122	623 - Emergent Wetland	5.6	N/A	Unspecified	
125	122 - Road/Parking Lot	2.6	Yes	Medium (NonForested)	Dollarville Dam/dike
126	622 - Lowland Shrub	13.1	N/A	Unspecified	
127	622 - Lowland Shrub	3.7	N/A	Unspecified	
128	50 - Water	20.9	Yes	Medium (NonForested)	Dollarville Flooding/Tahquamenon River



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
130	122 - Road/Parking Lot	4.7	N/A	Unspecified	Parking lot/boat launches for Dollarville Dam/Tahquamenon River
131	622 - Lowland Shrub	7.5	N/A	Unspecified	



7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments
multiple - see	SCA Removal	42113_SCA_Removal	1116.1	Area is recommended for removal from Potential Old Growth. The majority is lowland shrub intermixed with some lowland, medium stocked, forested types, as well as a few upland, medium stocked, forested ridges. These types of areas are located throughout the Forest Area. This particular area has limited access due to its' lowland nature.



8 – DEDICATED CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	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	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.
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.