



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 78

Entry Year 2016

Acreage: 3,060

County Luce

Management Area: Charcoal Grade

Revision Date: 07/29/2014

Stand Examiner: Jason Tokar

Legal Description:

T47N R8W Sections 7-10, 11-15, 22 & 23

Identified Planning Goals:

Maintain or improve the forest health, productivity, and diversity of the area through proper management. Timber management, wildlife habitat, and recreation are the main uses of the compartment. Expanded timber management is the main goal of the compartment. Increasing management activity will provide an increase in diversity and wildlife habitat.

Soil and topography:

The compartment is comprised of heavy silt and silt loam soils, even on the higher ground areas. To the west of the Charcoal Grade, soils are mainly Paquin-Finch complex, Paquin-Spot complex and some areas of Wallace sand. To the east of the compartment, soils are primarily Auger-Annianias silt loam, Zandi silt loam and Hendrie-Annianias complex. Throughout the compartment on the slightly higher ground, forest cover types are northern hardwoods and aspen. On the lower sites, forest cover types consist of mixed swamp conifer, spruce, cedar, and some swamp hardwoods. The topography of the compartment is level with a few rolling areas of higher ground.

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

The core area of the compartment is primarily state land. There are some parcels of state land intermixed with private parcels around the compartment boundaries. State land mixed with small private parcels borders the compartment to the north, west, and south. To the east is mainly private land. Land use in the compartment is mainly hunting, fishing, and recreation such as snowmobiling on the groomed snowmobile trail. Development is minimal in the area due to the large amount of state land and the lowland nature of the area.

Unique Natural Features:

The Tahquamenon River, Atwood Creek, and Freeman Creek flow through the compartment. MNFI lists an eagle nest in the compartment.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

BMP guidelines will be followed for any management activities near the watercourses. Most management activities will take place in the winter months due to the nature of the soils. This will create a conflict with the snowmobile trail and sufficient precautions will need to be made.

Watershed and Fisheries Considerations:

Fisheries Values: Poor

Fisheries Concerns: The streams located in this compartment include Freeman Creek and two small unnamed warm streams. Although these streams are warm and most likely do not contain brook trout, they are an important component of the Tahquamenon River fishery providing nursery areas for important game-fish and forage species. Erosion control should be a high priority near these streams. Standard BMP's should be applied.

Wildlife Habitat Considerations:

Compartment 78 lies in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment is in the Charcoal Grade Management Area and has moose, black bear, American marten, ruffed grouse and spruce grouse as featured species. It is also located along the western edge of the historic Hulbert Deer yard and supports high numbers of deer during stressful winter periods. The compartment has good overall stand diversity with significant components of upland hardwood, swamp conifer, and mature white pine. Excellent wildlife travel corridors exist along lowlands and streams.

Conifer canopies should not be disturbed in this compartment to maintain the wildlife values and thermal cover of those stands. Forested corridors should be maintained to facilitate ease of movement between upland and lowland areas. Buffer zones along streams and rivers should be sustained to preserve travel corridors and wetland wildlife values and habitats. Wildlife objectives will be achieved by the retention of conifers, hard and soft mast producing trees, wildlife den and nest trees and snags in hardwoods stands and the preservation of conifer components in aspen stands. White-tailed deer, fisher, black bear, American marten, snowshoe hare, moose and gray wolf are noteworthy wildlife species using this compartment.

Mineral Resource and Development Concerns and/or Restrictions

Sections 7 – 10, 15-18, 22 & 23, T47N-R8W, Luce County

Surface sediments consist of lacustrine sand, gravel, clay and silt, peat and muck and coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. These formations are quarried for stone/dolomite in the UP. There are not any gravel pits in the area, but there may be potential in Section 15 & 16. There is no economic oil and gas production in the UP.

Vehicle Access:

The compartment is 16 miles northwest of Newberry. Access to the compartment can be gained via the Skyline Road and the Charcoal Grade. Island Lake Road also provides access to the southwest corner of the compartment. Vehicle access to most areas of the compartment is moderate mainly due to the low ground present. One good dirt road heading east from the Charcoal Grade provides access to the land in the northeast section of the compartment. State land in Sections 10, 15, 22 and 23 is intermixed with private and access is limited (gated roads). Several short abandoned roads heading from the Charcoal Grade are present, but provide no legal vehicle access. Low ground and heavy soils are the main restriction to vehicle access within the compartment.

Survey Needs:

S 1/16 corner of Section 9 – questionable gate location. Survey corner establishment along private land adjacent to proposed treatments is unlikely due to the lack of survey control in the area.

Recreational Facilities and Opportunities:

The Charcoal Grade is used as the groomed snowmobile trail from Newberry to the Tahquamenon Falls. Other recreational opportunities include hunting, fishing, hiking, ORV riding, wildlife viewing. Several small camps are located within the vicinity of the compartment.

Fire Protection:

Fires should remain small except in periods of increased drought conditions because of swamp conifers and hardwood cover types. Swamp conifers and heavier soils will make access to remote fires a challenge. Risk to private property should be low.

Additional Compartment Information:

A 5 mile stretch of the Charcoal Grade, extending from the Murphy Creek bridge north to the Camp 7 Road, was just improved through a recently closed timber sale (42-007-14-01, Charcoal Grade Project). The sale/project included removing trees on both sides of the road to eliminate shading of the road, culvert installation, and hauling fill/gravel and grading the entire stretch of the road. This project should greatly improve the ability to conduct timber sales in this compartment, as well as benefit the snowmobile trail program which uses the Charcoal Grade as a main snowmobile trail.

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**

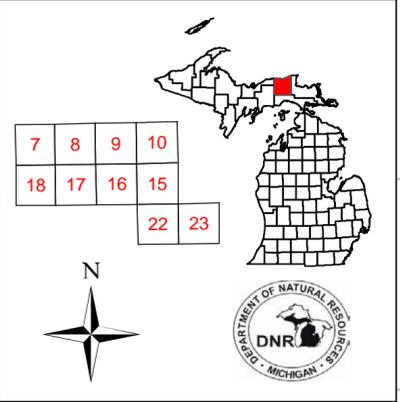
The following information is displayed, where pertinent, on the attached compartment maps:

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

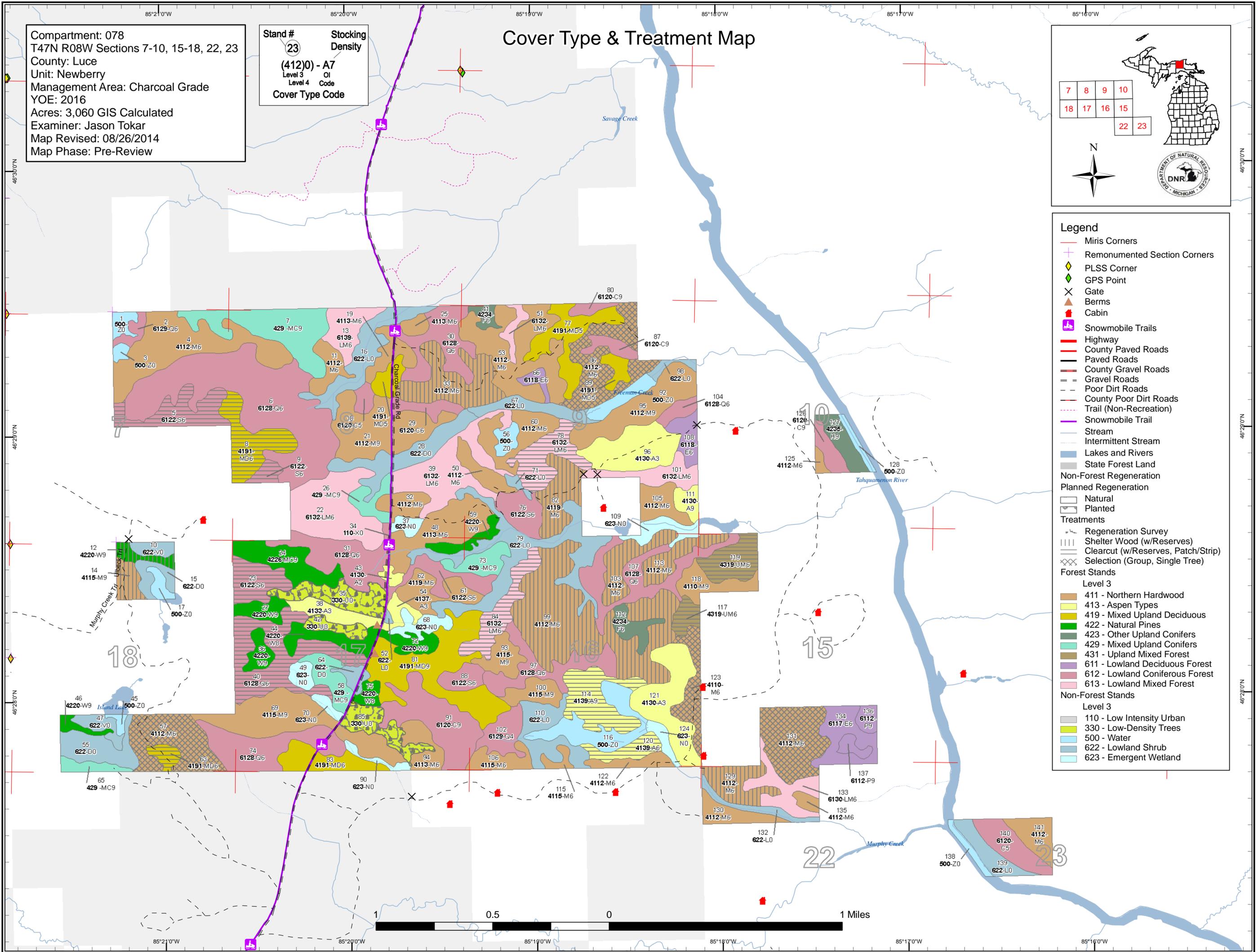
Cover Type & Treatment Map

Compartment: 078
 T47N R08W Sections 7-10, 15-18, 22, 23
 County: Luce
 Unit: Newberry
 Management Area: Charcoal Grade
 YOE: 2016
 Acres: 3,060 GIS Calculated
 Examiner: Jason Tokar
 Map Revised: 08/26/2014
 Map Phase: Pre-Review

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



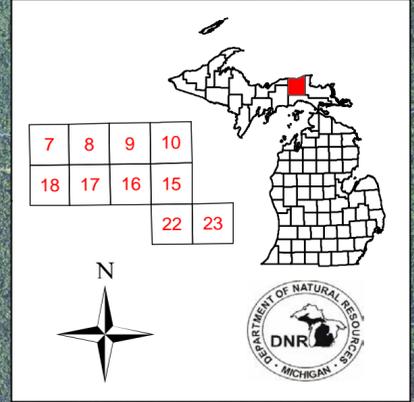
- ### Legend
- Miris Corners
 - Remonumented Section Corners
 - ◆ PLSS Corner
 - ◆ GPS Point
 - ✕ Gate
 - ▲ Berms
 - ▲ Cabin
 - Snowmobile Trails
 - Highway
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Trail (Non-Recreation)
 - Snowmobile Trail
 - Stream
 - Intermittent Stream
 - Lakes and Rivers
 - State Forest Land
 - Non-Forest Regeneration
 - Planned Regeneration
 - Natural
 - Planted
 - Treatments
 - Regeneration Survey
 - Shelter Wood (w/Reserves)
 - Clearcut (w/Reserves, Patch/Strip)
 - Selection (Group, Single Tree)
 - Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
 - Non-Forest Stands
 - Level 3
 - 110 - Low Intensity Urban
 - 330 - Low-Density Trees
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland



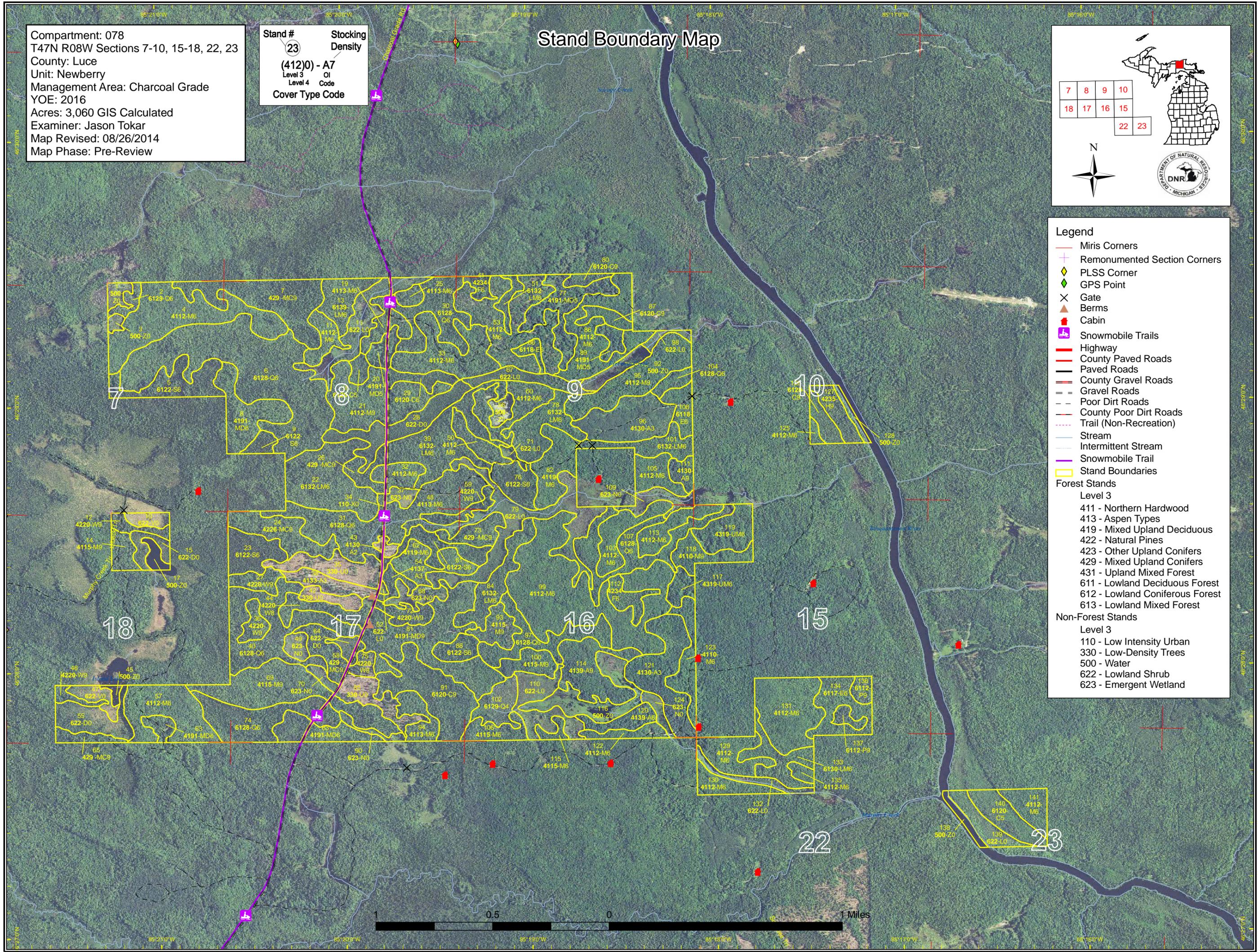
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Stand #
 23
 Stocking
 Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Stand Boundary Map



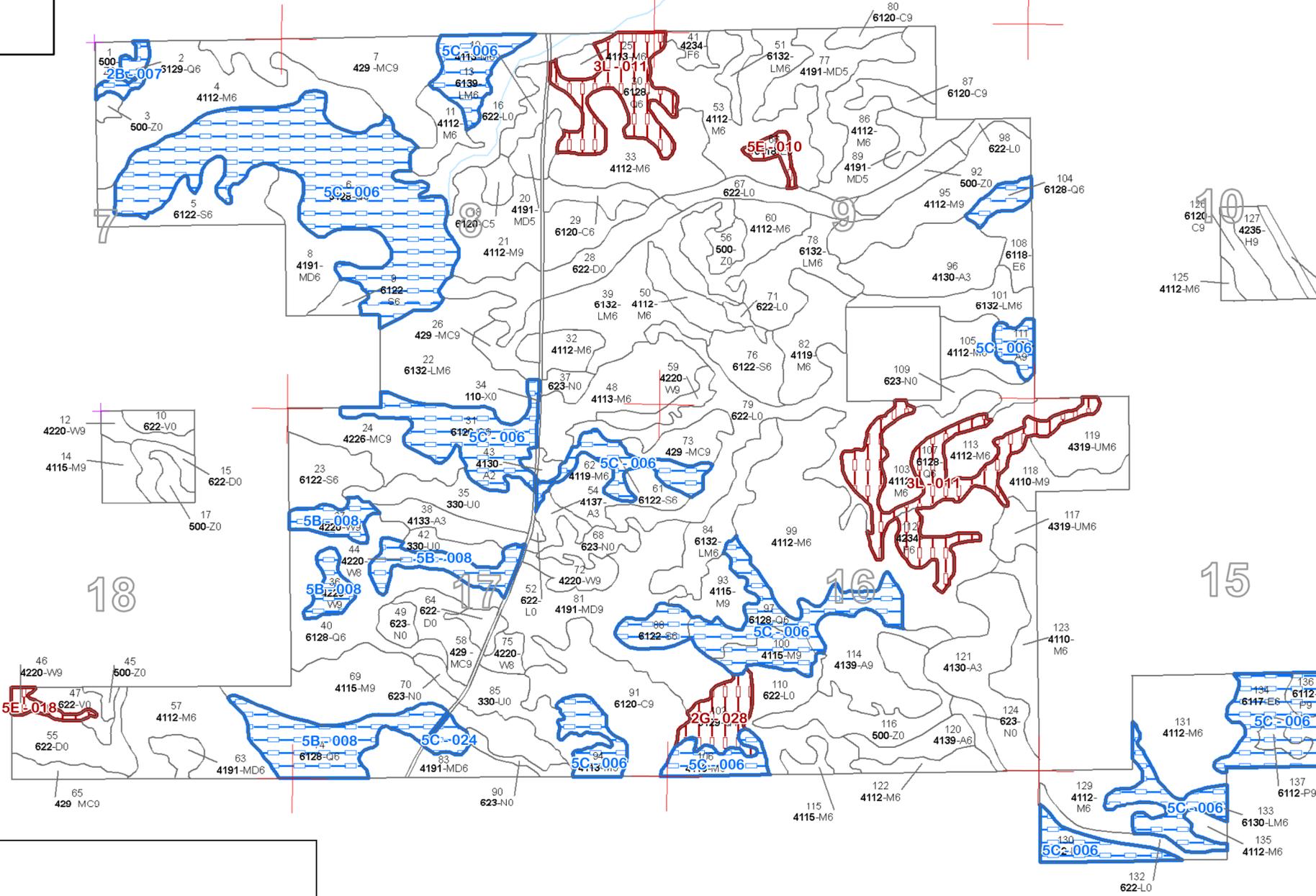
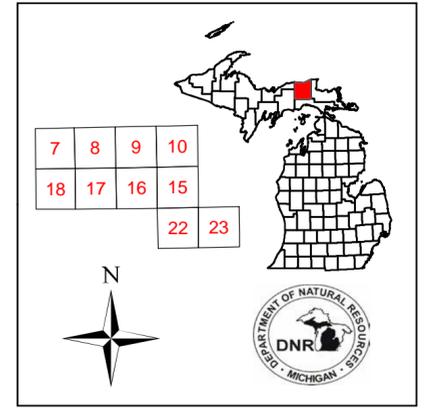
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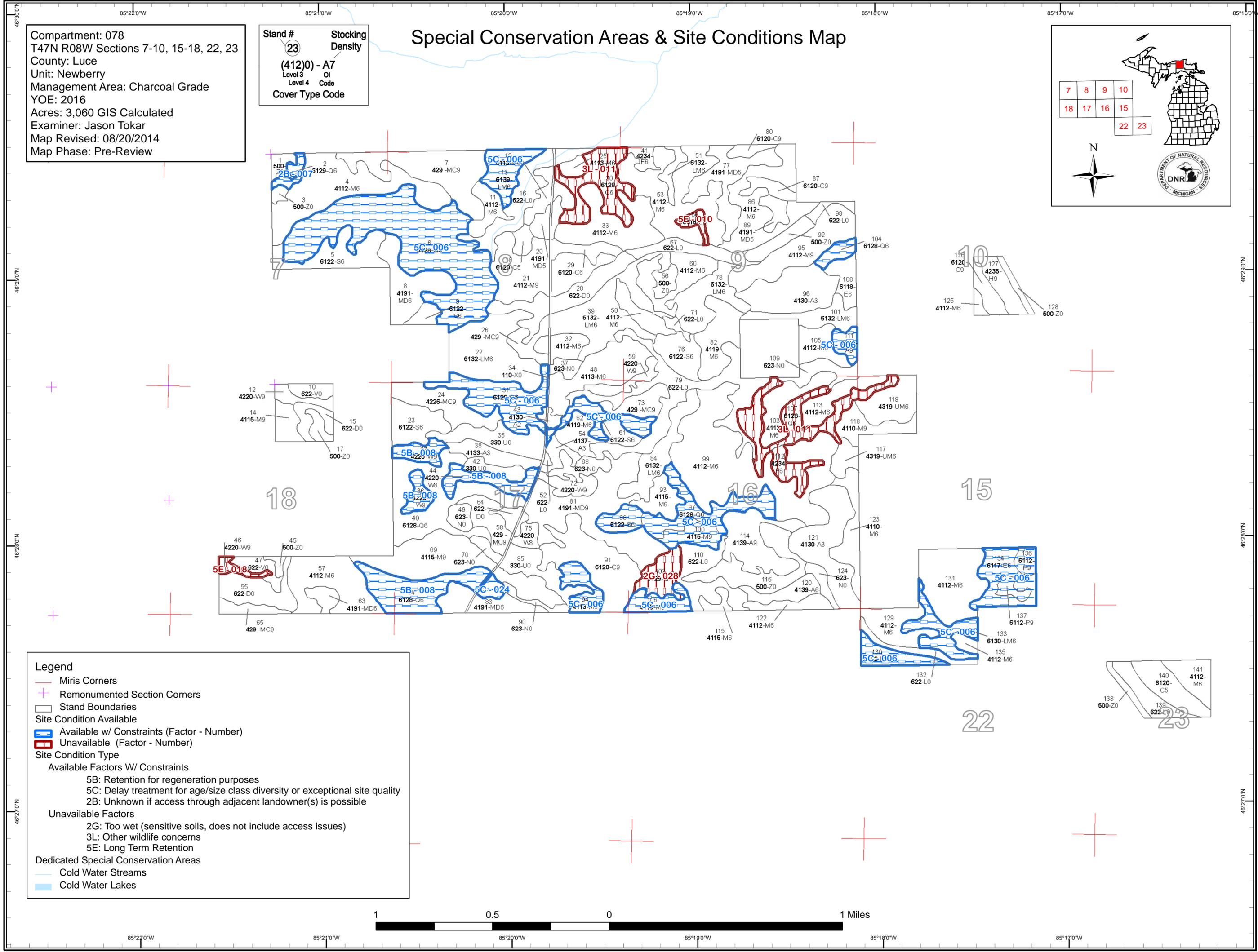
Stand #
 (23)
 Stacking
 Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Special Conservation Areas & Site Conditions Map



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
 - 5B: Retention for regeneration purposes
 - 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)
 - 3L: Other wildlife concerns
 - 5E: Long Term Retention
- Dedicated Special Conservation Areas
 - Cold Water Streams
 - ▨ Cold Water Lakes



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	18	88	0	7	0	0	0	21	0	37	0	0	0	0	171
Bog	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Cedar	0	0	0	0	0	0	0	0	0	112	0	0	0	0	112
Hemlock	0	0	0	0	0	0	0	0	0	0	0	14	0	0	14
Low-Density Trees	56	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	11	0	0	0	0	11
Lowland Conifers	0	0	0	0	0	0	0	0	0	433	0	0	0	0	433
Lowland Deciduous	0	0	0	0	0	0	0	12	26	5	0	0	0	0	44
Lowland Mixed Forest	0	0	0	0	0	0	0	0	184	52	0	0	0	0	236
Lowland Shrub	178	0	0	0	0	0	0	0	0	0	0	0	0	0	178
Lowland Spruce/Fir	0	0	0	19	0	0	0	0	36	41	11	0	0	0	107
Marsh	51	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Mixed Upland Deciduous	0	0	0	0	49	0	0	7	56	73	0	0	0	0	185
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	29	0	0	0	29
Northern Hardwood	0	0	0	0	0	0	0	29	716	282	0	0	0	0	1026
Treed Bog	73	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Upland Conifers	0	0	0	0	0	0	0	0	0	26	77	0	0	0	103
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	33	0	0	0	0	33
Upland Spruce/Fir	0	0	0	0	6	0	0	12	0	0	0	0	0	0	18
Urban	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Water	78	0	0	0	0	0	0	0	0	0	0	0	0	0	78
White Pine	0	0	0	0	0	0	0	0	0	27	49	0	0	0	76
Total	481	88	0	26	55	0	0	81	1018	1131	167	14	0	0	3060



Report 2 – Proposed Treatment Summaries

Newberry Mgt. Unit
Year of Entry 2016

Compartment 078
Total Compartment Acres: 3,060

Acres by Treatment Type

Commercial Harvest - 753	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
	11	0	0	0	0	0	0	11
Aspen Types	50	0	0	0	0	0	0	50
Lowland Coniferous Forest	119	0	0	0	0	0	0	119
Lowland Mixed Forest	57	0	0	0	0	0	0	57
Mixed Upland Deciduous	41	0	0	0	0	0	0	41
Natural Pines	0	0	0	7	0	0	0	7
Northern Hardwood	0	162	0	274	0	0	0	436
Upland Mixed Forest	33	0	0	0	0	0	0	33
Total	309	162	0	281	0	0	0	753



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	42078005-Cut	30.1	6122 - Black Spruce	High Density Pole	89	141-170	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Retention to be in patches due to low ground and shallow soils. Leave a few scattered white pine for bear and any <u>Specs:</u> hemlock for moose. <u>Other</u> Access will have to be from west through private land. <u>Comments:</u> <u>Next</u> Monitor the success of regeneration the next treatment period. Acceptable regeneration is black spruce with a mix of lowland coniferous species. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
8	42078008-Cut	33.7	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	80	81-110	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Retain 50% of the white pine. Remove all red maple, aspen and birch. Retention in patches, concentrate in areas of <u>Specs:</u> conifers. Retain any hemlock for moose cover. <u>Other</u> Access through private land to the west <u>Comments:</u> <u>Next</u> Monitor the success of regeneration the next treatment period. Acceptable regeneration is a mix of red maple, aspen, birch, white pine, spruce <u>Steps:</u> and balsam. <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
9	42078009-Cut	6.2	6122 - Black Spruce	High Density Pole	89	141-170	Harvest	Clearcut	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Clearcut. Small stand, no retention. <u>Specs:</u> <u>Other</u> Access may be an issue through private land to west. <u>Comments:</u> <u>Next</u> Monitor the success of regeneration the next treatment period. Acceptable regeneration is black spruce with a mix of lowland coniferous species. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
12	42078012-Cut	7.2	42200 - Natural White Pine	High Density Log	104	81-110	Harvest	Shelter Wood with Reserves	4220 - Natural White Pine	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood. Remove all aspen, maple and birch. Mark white pine to cut. Residual BA of 50 sq ft average. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> Monitor the success of regeneration the next treatment period. Acceptable regeneration is white pine with minor components of maple, aspen, <u>Steps:</u> birch and balsam. <u>Proposed</u> <u>Start Date:</u> 10/01/2015										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
14	42078014-Cut	10.5	4115 - Y.Birch, Hemlock NH	High Density Log	90	111-140	Harvest	Shelter Wood with Reserves	4220 - Natural White Pine	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood with reserves. Leave groups of hemlock (4 or more). Remove most of the red maple and a portion of the yellow birch. Release the										
<u>Specs:</u> advanced understory. Residual BA of 60 sq ft average.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Monitor the success of regeneration the next treatment period. Acceptable regeneration is northern hardwoods with yellow birch and hemlock.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
23	42078023-Cut	22.6	6122 - Black Spruce	High Density Pole	92	111-140	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Retention to be in patches due to shallow soils. Concentrate retention patches around hemlock if it exists.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Monitor the success of regeneration the next treatment period. Acceptable regeneration is black spruce with a mix of lowland coniferous species.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
33	42078033-Cut	44.9	4112 - Maple, Beech, Cherry Association	High Density Pole	85	81-110	Harvest	Shelter Wood with Reserves	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood with reserves. Residual BA average of 50 sq ft. Remove all aspen, spruce and balsam. Residual trees should be the better quality										
<u>Specs:</u> poles and small sawlogs. Remove large, overmature maple. Retain white pine unless needed for maneuverability. Protect understory spruce pockets.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Monitor the success of regeneration the next treatment period. Acceptable regeneration is northern hardwoods species, maple, beech and										
<u>Steps:</u> cherry association.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
40	42078040-Cut	60.0	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	96	81-110	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Retention to be in patches. Patch retention to concentrate around areas of cedar to retain approximately half of the										
<u>Specs:</u> cedar component present. Retain all hemlock for moose cover. Winter harvest.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Monitor the success of regeneration the next treatment period. Acceptable regeneration is mixed lowland coniferous species.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
57	42078057-Cut	45.3	4112 - Maple, Beech, Cherry Association	High Density Pole	91	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<u>Prescription</u> Selection harvest. Remove beech that is still "alive". Remove red maple with dieback in the crowns. Residual BA of 70. Retain some <u>Specs:</u> supercanopy white pine for nest trees, retain all hemlock for moose cover and retain some trees with "forks" in upper half of the tree. Thick understory, marking should be done during "leaf off". <u>Other</u> <u>Comments:</u> <u>Next</u> Monitor the success of regeneration the next treatment period. Acceptable regeneration is maple and other northern hardwoods species. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
63	42078063-Cut	6.9	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	78	81-110	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Clearcut. Small acreage, no retention. Leave some white pine and some large spruce and fir in the boundary line for trees for wildlife, otherwise <u>Specs:</u> clearcut for moose forage. <u>Other</u> <u>Comments:</u> <u>Next</u> Monitor the success of regeneration the next treatment period. Acceptable regeneration is aspen with mix of maple and upland coniferous <u>Steps:</u> species. <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
78	42078078-Cut	30.3	6132 - Mixed Lowland Forest with Cedar	High Density Pole	89	81-110	Harvest	Clearcut with Reserves	6132 - Mixed Lowland Forest with Cedar	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Remove maple, black spruce. Retain cedar in patches. Retain all white pine and hemlock and some dense conifer <u>Specs:</u> pockets for moose. <u>Other</u> <u>Comments:</u> <u>Next</u> Monitor the success of regeneration the next treatment period. Acceptable regeneration is mixed lowland coniferous species. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
82	42078082-Cut	27.9	4119 - Mixed Northern Hardwoods	High Density Pole	86	81-110	Harvest	Shelter Wood with Reserves	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood with reserves. Residual BA of 50 sq ft average. Keep BA higher in areas of better quality, lower BA in areas of lower quality maple <u>Specs:</u> and higher conifer component. Retain all hemlock and some dense conifer pockets for moose. <u>Other</u> <u>Comments:</u> <u>Next</u> Monitor the success of regeneration the next treatment period. Acceptable regeneration is northern hardwoods species. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
84	42078084-Cut	26.3	6132 - Mixed Lowland Forest with Cedar	High Density Pole	95	81-110	Harvest	Clearcut with Reserves	6132 - Mixed Lowland Forest with Cedar	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Retain a component of cedar and white pine. Remove all maple, birch, spruce. Patch retention to concentrate around cedar pockets. Retain hemlock unless needed for maneuverability. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next Steps:</u> Monitor the success of regeneration the next treatment period. Acceptable regeneration is mixed lowland coniferous species with component of lowland deciduous. <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
86	42078086-Cut	47.0	4112 - Maple, Beech, Cherry Association	High Density Pole	85	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<u>Prescription</u> Single tree selection. Residuals to be best quality maple poles and small sawlogs. Residual BA of 70. Residual BA lower in areas of lower quality and pockets of red maple. Retain all hemlock and white pine, and scattered spruce for moose cover. <u>Specs:</u> <u>Other</u> See locked comments <u>Comments:</u> <u>Next Steps:</u> Monitor the success of regeneration the next treatment period. Acceptable regeneration is northern hardwoods species, maple, beech and cherry association. <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
99	42078099-Cut	127.1	4112 - Maple, Beech, Cherry Association	High Density Pole	90	111-140	Harvest	Shelter Wood with Reserves	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood with reserves. Residual BA of 60 sq ft average. Residual to be lower in areas of lesser quality. Remove all large, overmature red maple and balsam. Retain all hemlock and a good component of white pine for moose, and conifer pockets around hemlock where possible. <u>Specs:</u> <u>Other</u> Possible access through private land. <u>Comments:</u> <u>Next Steps:</u> Monitor the success of regeneration the next treatment period. Acceptable regeneration is northern hardwoods species, maple, beech and cherry association. <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
103	42078103-Cut	22.7	4112 - Maple, Beech, Cherry Association	High Density Pole	85	111-140	Harvest	Shelter Wood with Reserves	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood with reserves. Residual BA of 60 sq ft average. Retain conifer for wildlife unless needed for maneuverability. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next Steps:</u> Monitor the success of regeneration the next treatment period. Acceptable regeneration is northern hardwoods species, maple, beech and cherry association. <u>Proposed</u> <u>Start Date:</u> 10/01/2015										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
113 42078113-Cut	18.3	4112 - Maple, Beech, Cherry Association	High Density Pole	85	111-140	Harvest	Shelter Wood with Reserves	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Shelterwood with reserves. Residual BA of 60 sq ft average. Retain conifer for wildlife unless needed for maneuverability.

Specs:

Other

Comments:

Next Steps: Monitor the success of regeneration the next treatment period. Acceptable regeneration is northern hardwoods species, maple, beech and cherry association.

Proposed

Start Date: 10/01/2015

114 42078114-Cut	36.7	4139 - Aspen, Mixed Deciduous	High Density Log	90	111-140	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Clearcut with reserves. Patch retention to concentrate near the edges bordering the ponds and in areas of thick conifer cover. Retain some conifers in the boundary line. Retention not to exceed 5% of total stand acreage.

Specs:

Other

Comments:

Next Steps: Monitor the success of regeneration the next treatment period. Acceptable regeneration is aspen with upland deciduous species.

Proposed

Start Date: 10/01/2015

117 42078117-Cut	9.1	4319 - Mixed Upland Forest	High Density Pole	90	111-140	Harvest	Clearcut	4319 - Mixed Upland Forest	Cmpt. Review Proposal
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Prescription Clearcut. Small acreage, no retention. Retain 1-2 conifers per acre for wildlife.

Specs:

Other

Comments:

Next Steps: Monitor the success of regeneration the next treatment period. Acceptable regeneration is northern hardwoods species, aspen, spruce, balsam and cedar.

Proposed

Start Date: 10/01/2015

119 42078119-Cut	23.7	4319 - Mixed Upland Forest	High Density Pole	90	111-140	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
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Prescription Clearcut with reserves. Individual tree retention. Retention to include a few large diameter white spruce and red maple. Retain conifer in the boundary line for wildlife to mimic scattered conifer.

Specs:

Other

Comments:

Next Steps: Monitor the success of regeneration the next treatment period. Acceptable regeneration is northern hardwoods species, aspen, spruce, balsam and cedar.

Proposed

Start Date: 10/01/2015



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
120	42078120-Cut	13.2	4139 - Aspen, Mixed Deciduous	High Density Pole	79	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Clearcut. No retention, small acreage stand. Will need to buffer creek corridor. Buffer area will be considered retention area. Leave a few large spruce for wildlife.

Other
Comments:

Next
Steps: Monitor the success of regeneration the next treatment period. Acceptable regeneration is aspen with upland deciduous species.

Proposed
Start Date: 10/01/2015

123	42078123-Cut	20.8	4110 - Sugar Maple Association	High Density Pole	85	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
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Prescription Selection harvest. Reduce BA to 70-80 sq ft average. Remove trees with declining crowns. Retain all conifer for wildlife.

Other
Comments:

Next
Steps: Monitor the success of regeneration the next treatment period. Acceptable regeneration is sugar maple with minor components of other northern hardwoods species.

Proposed
Start Date: 10/01/2015

129	42078129-Cut	22.9	4112 - Maple, Beech, Cherry Association	High Density Pole	87	111-140	Harvest	Shelter Wood with Reserves	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
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Prescription Shelterwood harvest. Remove overmature, large diameter red maple. Residual BA of 60 sq ft on average. Winter cut. West end of the stand is more of an A9, 2-3 acres of large diameter, mature aspen. Remove all aspen and merchantable balsam. Retain some conifer pockets for moose cover.

Other
Comments:

Next
Steps: Monitor the success of regeneration the next treatment period. Acceptable regeneration is northern hardwoods species, maple, beech and cherry association.

Proposed
Start Date: 10/01/2015

131	42078131-Cut	48.7	4112 - Maple, Beech, Cherry Association	High Density Pole	87	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
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Prescription Selection harvest. Residual BA of 70-80. Lower residual BA is lower quality areas. Remove overmature red maple and all trees with dieback in the crowns. Concentrate on residual of better quality pole size and small sawlog maple. Center of the stand is higher quality, more hard maple. Retain scattered spruce and fir for wildlife considerations.

Other
Comments:

Next
Steps: Monitor the success of regeneration the next treatment period. Acceptable regeneration is northern hardwoods species, maple, beech and cherry association.

Proposed
Start Date: 10/01/2015



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
	42078501_Out OfYOE-Cut	10.5					Harvest	Clearcut	11 - Low Intensity Urban	Fld. Tr. Bdy.

Prescription Cut all trees within 30 feet of the centerline of Charcoal Grade to aid in helping to dry out and maintain Charcoal Grade.

Specs:

Other

Comments:

Next Possible brush hog as needed.

Steps:

Proposed

Start Date: 12/04/2013

35	NF_42078035-Survey	26.0	3302 - Low Density Conifer Trees				Regeneration Survey	Intermediate Survey (natural regen)	6122 - Black Spruce	Cmpt. Review Proposal
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Prescription Regeneration check needed in 2016.

Specs:

Other

Comments:

Next

Steps:

Proposed

Start Date: 05/01/2016

42	NF_42078042-Survey	9.1	3302 - Low Density Conifer Trees				Regeneration Survey	Intermediate Survey (natural regen)	6122 - Black Spruce	Cmpt. Review Proposal
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Prescription Regeneration check needed in 2016

Specs:

Other

Comments:

Next

Steps:

Proposed

Start Date: 05/01/2016

85	NF_42078085-Survey	21.0	3302 - Low Density Conifer Trees				Regeneration Survey	Intermediate Survey (natural regen)	6122 - Black Spruce	Cmpt. Review Proposal
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Prescription Regeneration check needed in 2016

Specs:

Other

Comments:

Next

Steps:

Proposed

Start Date: 05/01/2016

**Total Treatment
Acreage Proposed: 808.8**



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type! #Type!

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

Total Treatment
Acreage Proposed: 0.0

Report 5 – Site Conditions

Newberry Mgt. Unit
Jason Tokar : Examiner

Compartment 078
Year of Entry 2016

Availability for Management

Total Acres	Acres		Dominant Site Conditions	Dominant Site Conditions						
	Available	Not Available		No	5E	5C	5B	3L	2G	2B
171	171		Aspen	163		8				
112	112		Cedar	112						
14	14		Hemlock	14						
11	11		Lowland Aspen/Balsam Poplar			11				
433	338	95	Lowland Conifers	60		232	39	78	18	6
44	39	5	Lowland Deciduous	12	5	26				
236	236		Lowland Mixed Forest	193		44				
107	107		Lowland Spruce/Fir	78		29				
185	185		Mixed Upland Deciduous	185						
29	29		Natural Mixed Pines	29						
1026	1026		Northern Hardwood	968		58				
103	103		Upland Conifers	103						
33	33		Upland Mixed Forest	33						
18	6	12	Upland Spruce/Fir	6				12		
76	71	5	White Pine	34	5		37			
2,598	2,480	118	Total Forested Acres	1,988	10	409	76	90	18	6
	95%	5%	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	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	404				
Comments:							
007	Available	2B: Unknown if access through adjacent landowner(s) is possible	6				
Comments:							

Report 5 – Site Conditions

Newberry Mgt. Unit
Jason Tokar : Examiner

Compartment 078
Year of Entry 2016

008	Available	5B: Maintain for regeneration purposes	76
Comments:			
010	Not Available	5E: Long Term Retention	5
Comments:			
011	Not Available	3L: Other wildlife concerns	90
Comments:			
018	Not Available	5E: Long Term Retention	5
Comments:			
024	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5
Comments:			
028	Not Available	2G: Too wet (sensitive soils, does not include access issues)	18
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
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Comments



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Newberry Mgt. Unit		Report 8 – Forested Stands			Compartment: 078 Year of Entry: 2016
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6129 - Mixed Coniferous Lowland Forest	High Density Pole	6.0	91		
4	4112 - Maple, Beech, Cherry Association	High Density Pole	70.8	85		Large hardwood, mostly defects, pulp quality. Possibly left from old harvests? Better quality in the understory/regeneration. Check for possible management (access?) in 20 years.
5	6122 - Black Spruce	High Density Pole	30.1	89	141-170	Black spruce, wet ground. Component of white pine, red maple, white birch and some cedar.
6	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	145.8	91	51-80	Variable stand in both species and density. Mix of lowland conifers, lowland hardwoods, areas of slightly higher ground. Very wet throughout most of the stand. Thick understory throughout. Areas of hemlock and cedar regeneration. Tag alder, balsam and ash in the understory as well.
7	429 - Mixed Upland Conifers	High Density Log	52.7	104	81-110	Old notes state the stand (general area) was cut in 1975-1979 for merchantable softwoods.
8	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	33.7	80	81-110	Poor quality red maple, small diameters, dieback in some tops. Large, super canopy white pine on the ridges. Thick balsam understory. Aspen and white birch are dying out. Somwe cedar and black spruce along stand edges.
9	6122 - Black Spruce	High Density Pole	6.2	89	141-170	Black spruce, wet ground. Component of white pine, red maple, white birch and some cedar.
11	4112 - Maple, Beech, Cherry Association	High Density Pole	12.9	85	51-80	Small diameter, sprout origin red maple.
12	42200 - Natural White Pine	High Density Log	7.2	104	81-110	Narrow stand of large diameter white pine, with smaller diameter, lower quality red maple, aspen and white birch. Thick understory of mainly balsam.
13	6139 - Mixed Lowland Forest	High Density Pole	20.7	85	51-80	
14	4115 - Y.Birch, Hemlock NH	High Density Log	10.5	90	111-140	Large diameter, low quality red maple with large diameter hemlock and some yellow birch. Good advanced understory of maple, yellow birch and beech. Most of the beech is dead. Good component of hemlock. 1982 comments state "stand was heavily cut over in 1966-1968.
18	6120 - Lowland Cedar	Medium Density Pole	5.7	91	51-80	
19	4113 - R.Maple, Conifer	High Density Pole	13.9	85	51-80	Low quality hardwoods with some white spruce, cedar and balsam. Lots of young aspen, white birch, maple, spruce, balsam. Good quality in younger trees. Cut in the past.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	9.2	45		Opening growing in with aspen, maple, spruce, balsam, white pine. East of the grade, stand is lower with tag alder. Old logging camp location.
21	4112 - Maple, Beech, Cherry Association	High Density Log	55.5	85	81-110	Low quality red maple, large diameters. Lots of defects. White pine, hard maple and yellow birch. Occasional hemlock. Good regeneration filling in the understory. Sprout origin. Best quality in the stand is in the understory. Check stand for possible harvest in 10 years.
22	6132 - Mixed Lowland Forest with Cedar	High Density Pole	57.3	89	81-110	
23	6122 - Black Spruce	High Density Pole	22.6	92	111-140	Pole size black spruce with large diameter white pine and a lesser component of tamarack and paper birch. Wet ground.
24	42260 - Natural Pine, Mixed Deciduous	High Density Log	28.9	104	81-110	
25	4113 - R.Maple, Conifer	High Density Pole	5.4	85	51-80	
26	429 - Mixed Upland Conifers	High Density Log	11.1	95	51-80	
27	42200 - Natural White Pine	High Density Log	10.8	104	51-80	
29	6120 - Lowland Cedar	High Density Pole	10.1	95	51-80	
30	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	35.9	95		Pockets of cedar. Low quality stand, small diameters. Cedar, red maple, black spruce and black ash. Component of large, supercanopy white pine.
31	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	41.0	96	51-80	Old notes state the stand was cut as sale #20-75A (salvage cut for spruce, balsam, hemlock)
32	4112 - Maple, Beech, Cherry Association	High Density Pole	12.6	75	51-80	Maple stand with thick maple understory mixed with aspen and white birch. Pockets in the stand are primarily younger maple. Overstory is poor quality and understory is coming in thick. Best quality in the stand is in the understory. Highgraded in past? Leave stand for 20 years to allow the younger trees to mature and improve the quality of the stand.
33	4112 - Maple, Beech, Cherry Association	High Density Pole	44.9	85	81-110	Overall stand is lower quality. Pockets of better quality with a higher component of hard maple. Low quality sawlog material. Open grown areas with lower basal area. Scattered balsam and spruce in the overstory. Good component of aspen, mostly along the road. Forked, crooked red maple throughout. Thick balsam understory along the southern edge of the stand.
36	42200 - Natural White Pine	High Density Log	9.1	104	51-80	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	4133 - Aspen, Mixed Pine	High Density Sapling	15.1	3		Stand harvested as sale #035-16. Completed 07/02/2012. Young aspen, red maple and balsam with residual super canopy, large diameter white pine. Ridge between two lowland spruce cuts.
39	6132 - Mixed Lowland Forest with Cedar	High Density Pole	52.7	89	81-110	Mix of red maple with cedar, black spruce, some hemlock, white pine and yellow birch. Thick understory of mainly balsam. Pockets thicker to cedar. Poor quality red maple, much of it is declining, dead tops. Stand varies from a lowland deciduous to a lowland coniferous stand. Old notes state that merchantable softwood was removed from the stand in the past (1976-1979).
40	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	60.0	96	81-110	
41	42340 - Upland Spruce/Fir	High Density Pole	5.6	45		Young balsam with white spruce, component of low quality red maple and small diameter aspen.
43	4130 - Aspen	Medium Density	3.4	4		Stand harvested as sale #035-06-01. Completed in 2010. Nice young aspen regeneration coming in.
44	42200 - Natural White Pine	Medium Density Log	17.1	104	51-80	
46	42200 - Natural White Pine	High Density Log	4.9	104	81-110	
48	4113 - R.Maple, Conifer	High Density Pole	40.5	80	81-110	
50	4112 - Maple, Beech, Cherry Association	High Density Pole	12.8	87	51-80	Stand thinned as sale # 036-06-01. Completed in 2012. Ridge of red maple. Pockets of better quality.
51	6132 - Mixed Lowland Forest with Cedar	High Density Pole	6.5	95	81-110	
53	4112 - Maple, Beech, Cherry Association	High Density Pole	65.7	90	51-80	Stand harvested via selection harvest as sale #036-06-01, Freeman Creek Hardwoods. Completed 04/30/2012. Some decent quality poles, hard maple and red maple. Regeneration from the harvest is just beginning to establish.
54	4137 - Aspen, Birch	High Density Sapling	7.2	35		
57	4112 - Maple, Beech, Cherry Association	High Density Pole	45.3	91	111-140	Stand was thinned during summer of 1997, as sale #03-96. Quality is variable throughout the stand. A portion of the stand, north of the small aspen stand, has lower BA and higher beech component. Lots of beech in the understory. Other areas have increase in quality, more maple and balsam in the understory. Many red maple have top dieback.
58	429 - Mixed Upland Conifers	High Density Log	16.9	104	51-80	

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Newberry Mgt. Unit

Report 8 – Forested Stands

Compartment: 078
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
59	42200 - Natural White Pine	High Density Log	9.4	93	81-110	Tall, large diameter white pine, healthy.
60	4112 - Maple, Beech, Cherry Association	High Density Pole	26.3	86	51-80	Stand thinned as sale # 36-06-01. Completed in 2012. Mainly red maple with some sugar maple. Scattered spruce and yellow birch. Cedar near stand edge.
61	6122 - Black Spruce	High Density Pole	18.2	96	51-80	Mainly black spruce. Spongy ground.
62	4119 - Mixed Northern Hardwoods	High Density Pole	22.5	80	81-110	Poor quality red male. Forked trees, doubles, short heights. Aspen component, scattered spruce, hemlock and cedar. Possible clearcut next entry year once young aspen adjacent to the west is more established.
63	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	6.9	78	81-110	Small acreage stand of aspen, balsam, low quality maple, white pine, beech, and a couple red pine. Aspen is mature. Stand surrounds a small opening that is filling in.
65	429 - Mixed Upland Conifers	High Density Log	7.8	104	81-110	Some dead tops to the white pine. Ridge stand along road/bog.
66	6118 - Lowland Deciduous with Cedar	High Density Pole	5.1	95	51-80	
69	4115 - Y.Birch, Hemlock NH	High Density Log	61.8	85	81-110	Low quality logs, lots of defects. Areas with good yellow birch regen. West end has higher component of hemlock. Old notes....yellow birch and white pine cut in 1950's, some logs removed in 1978.
72	42200 - Natural White Pine	High Density Log	11.1	93	81-110	
73	429 - Mixed Upland Conifers	High Density Log	14.6	93	81-110	
74	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	44.3	96	51-80	
75	42200 - Natural White Pine	Medium Density Log	6.3	93	51-80	Stand was treated as sale # 035-06-01. Completed in 2012. Miscellaneous species were removed, retained large diameter white pine, cedar and tamarack.
76	6122 - Black Spruce	High Density Pole	18.5	36	51-80	Thick, younger stand of black spruce and cedar primarily. Old notes say the stand was clearcut in 1977.
77	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	32.7	45	1-50	Open areas that are filling in with balsam, spruce, maple and aspen. Scattered large white spruce, clones of aspen, pockets of red and sugar maple. Open areas throughout still. Possibly manage in 10 years.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
78	6132 - Mixed Lowland Forest with Cedar	High Density Pole	30.3	89	81-110	Mix of red maple with cedar, black spruce, some hemlock, white pine and yellow birch. Thick understory of mainly balsam. Pockets thicker to cedar. Poor quality red maple, much of it is declining, dead tops. Stand varies from a lowland deciduous to a lowland coniferous stand. Old notes state that merchantable softwood was removed from the stand in the past (1976-1979).
80	6120 - Lowland Cedar	High Density Log	5.0	95	51-80	
81	4191 - Mixed Upland Deciduous with Conifer	High Density Log	72.7	93	81-110	Mixed stand. Red maple, hard maple, hemlock, yellow birch, white pine, spruce, aspen, occasional cedar. Advanced understory of a mix of all the overstory/canopy species. Nicer regeneration along the ridges. BA is variable. Areas of lower BA in canopy and more advanced understory. Old stumps, stand was cut in the past. SE corner of the stand has large diameter red maple, yellow birch, hemlock, etc. Large diameter, tall white pine throughout. Check stand for treatment in 10 years.
82	4119 - Mixed Northern Hardwoods	High Density Pole	27.9	86	81-110	Red maple stand with yellow birch and smaller components of white spruce, cedar and hemlock. Overall quality is fair. Quality decreases further south in the stand. Some areas are more open grown. Old notes state that the southern portion of the stand (previously a separate stand) had softwood and hardwood logs removed in 1976-1978.
83	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	22.0	80	81-110	West side of the grade has records stating it was clearcut in 1976 (sale #14-75A?). Really mixed stand both sides of the road. East side has higher BA or older timber. Good regeneration/understory throughout the stand. Larger red maple appears to be overmature, low quality. Scattered spruce and hemlock.
84	6132 - Mixed Lowland Forest with Cedar	High Density Pole	26.3	95	81-110	Mixed stand of red maple and cedar, white pine, white spruce, white birch, black spruce, pockets of hemlock. Stand is slightly lower than adjacent stand to the east and has more conifer in the overstory. Low quality red maple. Birch showing signs of mortality.
86	4112 - Maple, Beech, Cherry Association	High Density Pole	47.0	85	111-140	Medium to lower quality maple stand with spruce component. Component of larger diameter, overmature maple. Some quality in the hard maple poles and small sawlogs. Areas in the stand with lower BA's. Heavy soils, likely winter harvest. Southern portion has higher component of large diameter maple, overmature and declining.
87	6120 - Lowland Cedar	High Density Log	8.2	95	51-80	
88	6122 - Black Spruce	High Density Pole	11.2	102		
89	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	7.4	45	1-50	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
91	6120 - Lowland Cedar	High Density Log	50.8	96	81-110	large diameter cedar. Patchy. Fairly open stand in many areas. Thicker areas of cedar and open areas that consist of mainly a lowland mixed conifer stand.
93	4115 - Y.Birch, Hemlock NH	High Density Log	14.7	87	81-110	Stand harvested as sale #36-06. Completed 4/2012. Red maple and hemlock. Stump sprout red maple regeneration already present.
94	4113 - R.Maple, Conifer	High Density Pole	15.5	85	111-140	
95	4112 - Maple, Beech, Cherry Association	High Density Log	44.3	85	81-110	Stand was thinned in 2000 as sale # 030-98-01. Ridge of red maple and sugar maple. Maple and balsam understory.
96	4130 - Aspen	High Density Sapling	40.4	14		Stand harvested in 2000, as sale # 030-98-01. Good aspen regeneration throughout most of the stand. Edges are slightly more open with more maple and balsam. Occasional spruce and maple residual from the harvest.
97	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	33.4	93	111-140	Low ground mixed stand of cedar, red maple, hemlock, black spruce, white pine, yellow birch. Lower ground than adjacent hardwood stands. Areas of higher cedar basal area, other areas are a real mix of species. Hardwoods in stand is low quality. Lots of variability throughout the stand. Combined old stand #'s 123 and 98. Old notes (pre 1995) state there was a budworm outbreak in stand.
99	4112 - Maple, Beech, Cherry Association	High Density Pole	127.1	90	111-140	Red maple with hard maple. Component of cedar, balsam and large white pine. Large overmature red maple, good quality poles of red maple and some hard maple. Stand has runs of better timber throughout. Eastern portion of the stand is red maple with large diameter white pine scattered, white spruce and some hemlock.
100	4115 - Y.Birch, Hemlock NH	High Density Log	14.1	90	111-140	Large diameter red maple, hemlock, yellow birch aminly. West end has a couple acres of large diameter aspen. Areas of smaller diameter timber. Some white birch in the stand but is dying out. Ridge runs along the southern edge of the stand.
101	6132 - Mixed Lowland Forest with Cedar	High Density Pole	19.6	92	81-110	Mix of red maple, cedar, black spruce, yellow birch, black ash, scattered white pine. Wet stand. Varies from a lowland deciduous to a lowland coniferous stand. High conifer component throughout. Poor quality in maple.
102	6129 - Mixed Coniferous Lowland Forest	Low Density Pole	17.7	92	1-50	majority of the stand is flooded due to beaver activity. Mortality is high because of flooding.
103	4112 - Maple, Beech, Cherry Association	High Density Pole	22.7	85	111-140	Red maple with hard maple. Better quality on top of ridge.
104	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	7.3	92	51-80	Swale containing cedar, black spruce, red maple and scattered black ash.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
105	4112 - Maple, Beech, Cherry Association	High Density Pole	16.3	78	81-110	Small diameters, short heights.
106	4115 - Y.Birch, Hemlock NH	High Density Pole	13.9	85	111-140	Low quality red maple with yellow birch, hemlock and some cedar. Component of both hemlock and cedar in the understory.
107	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	41.8	93	111-140	Low ground mixed stand of cedar, red maple, hemlock, black spruce, white pine, yellow birch. Lower ground than adjacent hardwood stands.
108	6118 - Lowland Deciduous with Cedar	High Density Pole	12.3	76	81-110	Low ground maple with cedar and balsam. Small diameters.
111	4130 - Aspen	High Density Log	8.0	78	81-110	Large diameter aspen with lower quality hard maple, red maple and some smaller balsam. Aspen is mature.
112	42340 - Upland Spruce/Fir	High Density Pole	12.1	75		
113	4112 - Maple, Beech, Cherry Association	High Density Pole	18.3	85	111-140	
114	4139 - Aspen, Mixed Deciduous	High Density Log	36.7	90	111-140	Large diameter aspen with smaller diameter red maple. Aspen is mature and showing signs of mortality. High percentage of the red maple in the stand is low quality. Some low areas. Sw portion of the stand is more open. Access from either the north or the east.
115	4115 - Y.Birch, Hemlock NH	High Density Pole	4.6	85	81-110	
117	4319 - Mixed Upland Forest	High Density Pole	9.1	90	111-140	Mixed stand with a lot of variability. Red maple, balsam, white spruce, cedar, black spruce, some hard maple and yellow birch. Pockets more to maple and other areas more to balsam, spruce and some cedar. Low quality red maple. White spruce is mature. Large diameter, overmature red maple.
118	4110 - Sugar Maple Association	High Density Log	17.6	85	81-110	Hard maple stand. Decent quality. Red maple and large diameter white spruce.
119	4319 - Mixed Upland Forest	High Density Pole	23.7	90	111-140	Mixed stand with a lot of variability. Red maple, balsam, white spruce, cedar, black spruce, some hard maple and yellow birch. Pockets more to maple and other areas more to balsam, spruce and some cedar. Low quality red maple. White spruce is mature. Large diameter, overmature red maple.
120	4139 - Aspen, Mixed Deciduous	High Density Pole	13.2	79	81-110	Aspen stand with maple, cherry, white spruce and balsam. Scattered white pine. Open areas are filling in. Aspen is mature, lower quality red maple, large diameter white spruce.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
121	4130 - Aspen	High Density Sapling	47.3	18		Stand cut as sale # 044-95-01. Good aspen regeneration. Mixed with some red maple stump sprouts. Scattered residual maple and balsam. Some aspen is transitioning to small poles. Pockets of pole size maple over younger aspen. Scattering of white birch. Stand ranges from a sapling stand to a pole stand with sapling coming in underneath.
122	4112 - Maple, Beech, Cherry Association	High Density Pole	10.1	85	81-110	Treat this stand when adjacent stand to the south in compartment 79 (currently stand #2) is harvested.
123	4110 - Sugar Maple Association	High Density Pole	20.8	85	111-140	Stand thinned as sale #44-95. Primarily hard maple. Good advanced understory of maple. Some dieback in the overstory.
125	4112 - Maple, Beech, Cherry Association	High Density Pole	2.8	90	51-80	Small diameter red maple with aspen and white spruce.
126	6120 - Lowland Cedar	High Density Log	9.9	99	111-140	
127	42350 - Upland Hemlock	High Density Log	13.9	114	171-200	Nice ridge along the Tahquamenon River. Hemlock and cedar. Hemlock and balsam in understory.
129	4112 - Maple, Beech, Cherry Association	High Density Pole	22.9	87	111-140	Red maple with lesser component of hard maple and balsam. Areas of larger diameter, overmature red maple. Quality of the stand is fair. Heavier soils. Balsam pockets in the canopy layer. Old access road runs east and west through the stand. West end of the stand is an A9, mature large diameter aspen with balsam. 2-3 acres
130	4112 - Maple, Beech, Cherry Association	High Density Pole	14.9	87	111-140	Maple stand, hard maple with red maple, component of yellow birch and white spruce. Scattered hemlock and white pine. Stand is an extension of adjacent stand to the west (comp 79, stand 2). Treat stand when adjacent stand is harvested in 2021.
131	4112 - Maple, Beech, Cherry Association	High Density Pole	48.7	87	111-140	Stand is a combination of red maple with white spruce around the outer edges and better quality hard maple with some red maple throughout the center portion of the stand. Hard maple areas have nice quality. Portion of the stand was set up as sale #04-96 but did not sell.
133	6130 - Fir, Aspen, Maple	High Density Pole	22.9	88	81-110	Wetter stand than surrounding maple stands. More conifers, black ash and some elm. Large aspen and white spruce.
134	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	26.2	88	81-110	Wetter stand than surrounding maple stands. More conifers, black ash and some elm. Large aspen and white spruce. Component of cedar.
135	4112 - Maple, Beech, Cherry Association	High Density Pole	4.5	87	111-140	
136	6112 - Lowland Aspen	High Density Log	6.1	91	81-110	

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Newberry Mgt. Unit

Report 8 – Forested Stands

Compartment: 078
Year of Entry: 2016



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
137	6112 - Lowland Aspen	High Density Log	5.3	91	81-110	
140	6120 - Lowland Cedar	Medium Density Pole	22.3	97		Swale of semi open cedar near the Tahquamenon River on the east side.
141	4112 - Maple, Beech, Cherry Association	High Density Pole	16.3	90		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	50 - Water	5.9	No	Unspecified	
3	50 - Water	2.9	No	Unspecified	
10	6225 - Bog	7.0	No	Unspecified	
15	6224 - Treed Bog	9.5	No	Unspecified	
16	6229 - Mixed lowland shrub	33.9	No	Unspecified	
17	50 - Water	5.6	No	Unspecified	
28	6224 - Treed Bog	32.5	No	Low	
34	11 - Low Intensity Urban	10.5	No	Unspecified	Charcoal Grade and cleared ROW
35	3302 - Low Density Conifer Trees	26.0	Natural Regen	Lowland Spruce/Fir	Stand cut as sale #035-06. Completed winter of 2011-2012. Stand is not yet regenerated.
37	6239 - Mixed Emergent Wetland	5.5	No	Unspecified	
42	3302 - Low Density Conifer Trees	9.1	Natural Regen	Lowland Spruce/Fir	Stand cut as sale #035-06. Completed winter of 2011-2012. Stand is not yet regenerated.
45	50 - Water	2.5	No	Unspecified	
47	6225 - Bog	9.3	No	Unspecified	
49	6239 - Mixed Emergent Wetland	6.8	No	Unspecified	
52	622 - Lowland Shrub	0.9	Unspecified	Unspecified	
55	6224 - Treed Bog	24.5	No	Unspecified	
56	50 - Water	6.8	No	Unspecified	Beaver/otter pond
64	6224 - Treed Bog	6.1	No	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
67	6229 - Mixed lowland shrub	16.1	No	Unspecified	Lowland brush corridor with some cedar and lowland hardwoods along the stand edges
68	6239 - Mixed Emergent Wetland	11.2	No	Unspecified	
70	6239 - Mixed Emergent Wetland	4.2	No	Unspecified	
71	622 - Lowland Shrub	2.9	Unspecified	Unspecified	
79	6229 - Mixed lowland shrub	66.0	No	Unspecified	
85	3302 - Low Density Conifer Trees	21.0	Natural Regen	Lowland Spruce/Fir	Stand cut as sale #035-06. Completed winter of 2011-2012. Stand is not yet regenerated.
90	6239 - Mixed Emergent Wetland	4.7	No	Unspecified	
92	50 - Water	11.4	No	Unspecified	Beaver pond activity
98	6229 - Mixed lowland shrub	4.3	No	Unspecified	
109	6239 - Mixed Emergent Wetland	12.3	No	Unspecified	
110	6229 - Mixed lowland shrub	28.5	No	Unspecified	
116	50 - Water	32.8	No	Unspecified	
124	6239 - Mixed Emergent Wetland	6.1	No	Unspecified	
128	50 - Water	4.7	No	Unspecified	Tahquamenon River
132	6229 - Mixed lowland shrub	9.5	No	Unspecified	Atwood Creek corridor
138	50 - Water	5.1	No	Unspecified	Tahquamenon River
139	6229 - Mixed lowland shrub	16.0	No	Unspecified	