



Newberry Forest Management Unit
Compartment Review Presentation
Compartment #42009 Entry Year: 2014
Compartment Acreage: 1,868 County: Luce

Revision Date: 9/6/2012

Stand Examiner: Jason Darling

Legal Description: T48N R12W. Sections 1-3 & 10-12

RMU (if applicable): This compartment lies within the Two Hearted Headwaters Management Area.

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

Soil and Topography: Topography ranges greatly throughout the compartment. Much of this area is low, however, there are series of sharp ridges running throughout the compartment.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment consists of continuous state ownership with a few private inholdings throughout. The compartment adjoins Nature Conservancy lands to the north, west and south with additional state ownership on the east boundary. The private inholdings throughout the compartment are owned by the Nature Conservancy.

Unique, Natural Features: MNFI lists communities of Dry-Mesic Northern Forests, hardwood-conifer swamp, rich conifer swamp, dry northern forest and muskeg within this compartment as well as an area of type I or II old growth.

Archeological, Historical, and Cultural Features: There are no archeological features listed for this compartment.

Special Management Designations or Considerations: Much of the compartment has been identified as a Special Conservation Area. This area consists of a number of different timber and lowland cover types. MNFI identifies several element occurrence polygons and points throughout this area. Part of the SCA contains a portion of the Two Hearted Natural Rivers Corridor. Some evidence of logging is evident but it is developing back into its original condition. The SCA covers many unique plant and forested/non-forested communities all which, if left in their current condition, will enhance the diversity of the surrounding landscape. MNFI identifies an element community of a Type I or II Old Growth Dry-mesic Northern Forest for parts of this compartment. Portions of the compartment qualify as Type I old growth; there is no evidence of logging. Several trees were cored and on average the age is ~100, which does not meet the 150 year requirement for Type 1 Old Growth, however the stand origin is due to a natural fire event. Several isolated pine ridges are included in the area. One further area qualifies as Type II old growth; there is evidence of logging, however is returning to its natural state. Several high intensity fires are evident.

Watershed and Fisheries Considerations: Fisheries Values: Good-to-Excellent
Fisheries Concerns: The North Branch Two-Hearted River, West Branch Two-Hearted River, and Beavertown Lakes are located in this compartment. According to Natural River BMP's for the Two-Hearted River and tributaries, a 100' buffer should be implemented where appropriate. No treatments are scheduled near either the rivers or lakes, so Fisheries has no concerns at this time.

Wildlife Habitat Considerations: **Compartment 9** is situated in north western Luce county, between the north and west branches of the Two-Hearted river which serve as excellent wildlife travel corridors and is in the Seney Sand Lake Plain ecological sub-subsection. The compartment is largely comprised of mature stands of lowland and mixed conifer stands and treed bogs. The compartment is in the Two Hearted Headwaters Management Area where black bear, blackburnian warbler, pileated woodpecker, and american marten are designated featured species. The entire compartment has been designated as Type I or Type II old growth and SCA and no treatments are planned at this time. In addition to featured species, wildlife species potentially using this compartment include white-tailed deer, black bear, coyote, bobcat, mink and otter.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Cambrian Trempealeau Formation subcrops below the glacial drift and could be used for stone. The nearest gravel pit is located three miles to the southwest and potential appears to be limited. There is no economic oil and gas production in the UP.

Vehicle Access: Access can be gained into the east side of the compartment by ORV/snowmobile only. This can be done by accessing an undesignated trail off the end of county road 418.

Survey Needs: None

Recreational Facilities and Opportunities: Hiking, wildlife viewing and hunting. Beavertown Lakes are located within the compartment and would provide fishing opportunities.

Fire Protection: Portions of this compartment are part of the Two Hearted Zone Dispatch Area. Wildfire response is covered by the Seney Field Office and assistance is provided by the Newberry MU. Large fire potential is moderate because of the lowland cover types with mixed ridges of dry pine time. Being remote and lack of good access suppression activities are going to be challenging with large wheeled suppression equipment. Long response times are the norm for this compartment because of the long travel times from the Field Offices.

Additional Compartment Information:

- **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**

Cover Type & Treatment Map

Compartment: 009
 T48N R12W Sec. 1-3, 10-12
 County: Luce
 Unit: Newberry
 YOE: 2014
 Acres: 1,868 GIS Calculated
 Examiner: Jason Darling
 Map Revised: 10/03/2012
 Map Phase: Pre-Review

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

3	2	1
10	11	12

N

Legend

- Miris Corners
- Remunented Section Corners
- PLSS Corner
- GPS Point
- Unclassified Corners
- Iron Post
- Wood Post
- Witness Tree
- Gate
- Berms
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- ORV Trails
- Snowmobile Trails
- ORV Trail
- Snowmobile Trail

Forest Stands

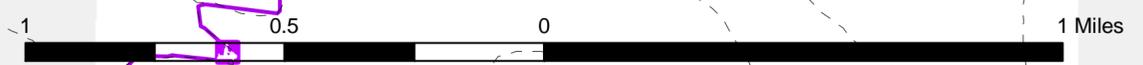
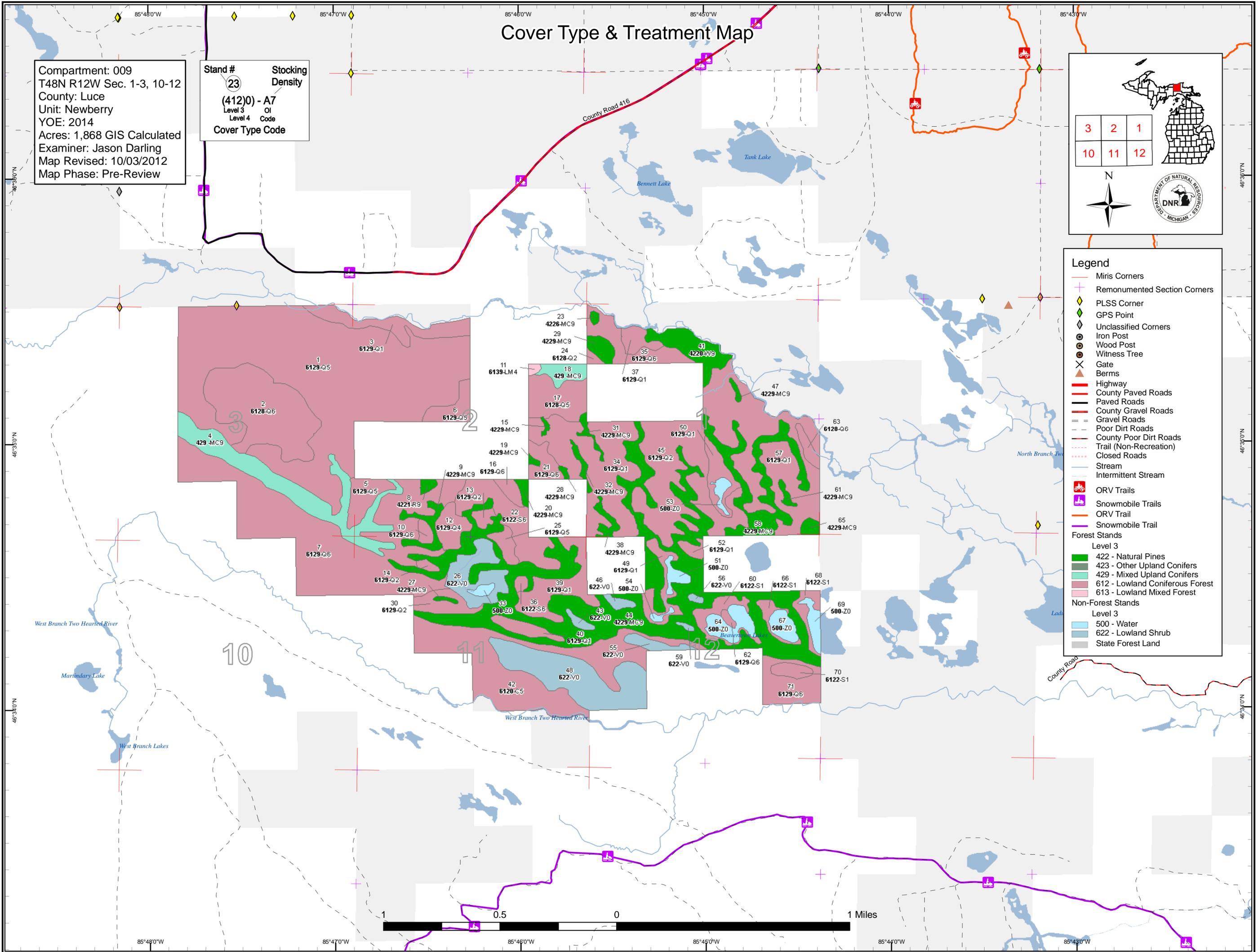
Level 3

- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 500 - Water
- 622 - Lowland Shrub
- State Forest Land



Stand Boundary Map

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- ORV Trail
- Snowmobile Trail
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

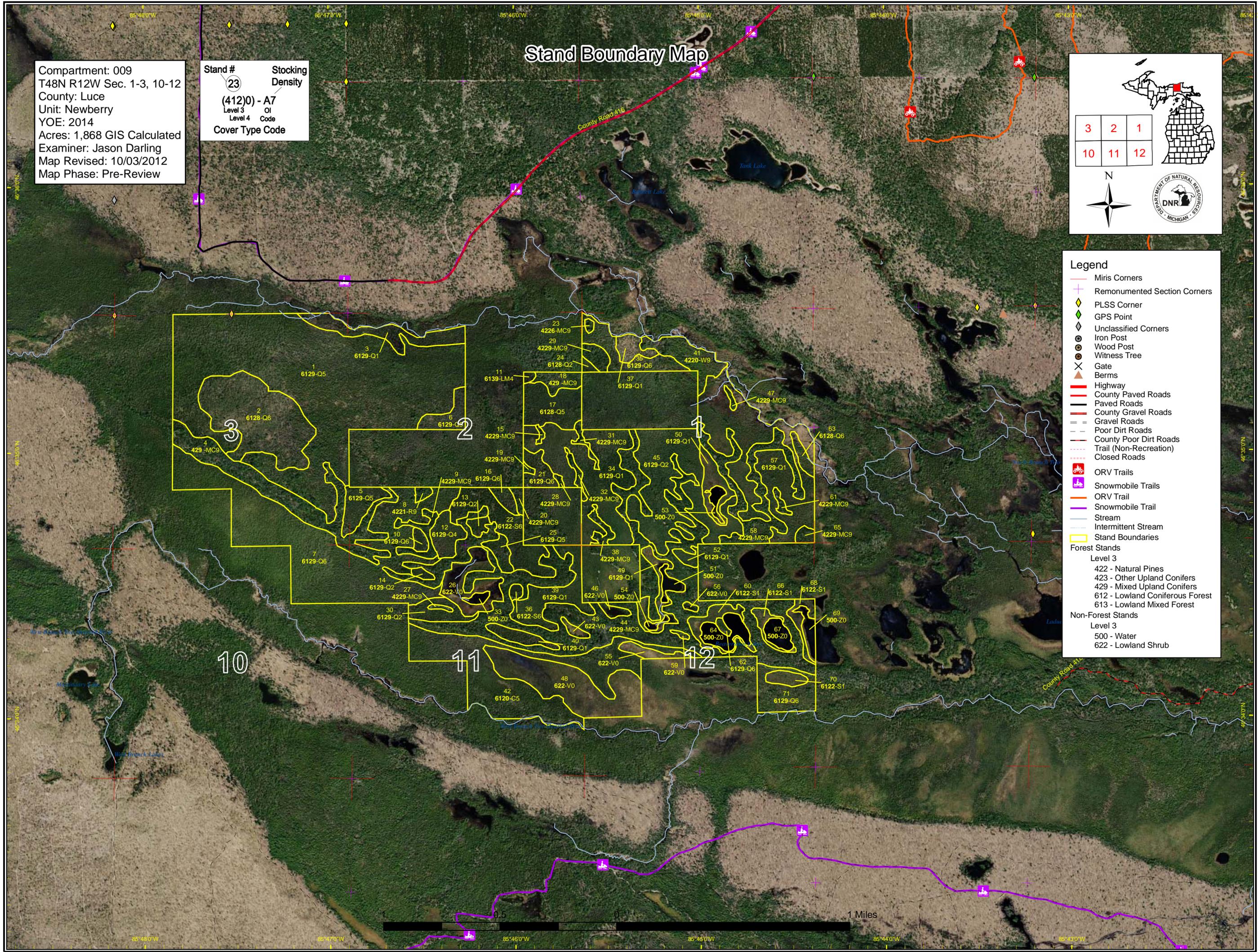
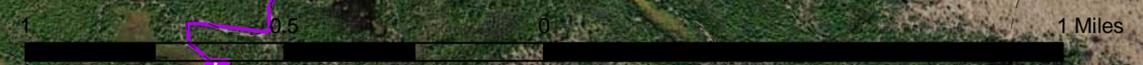
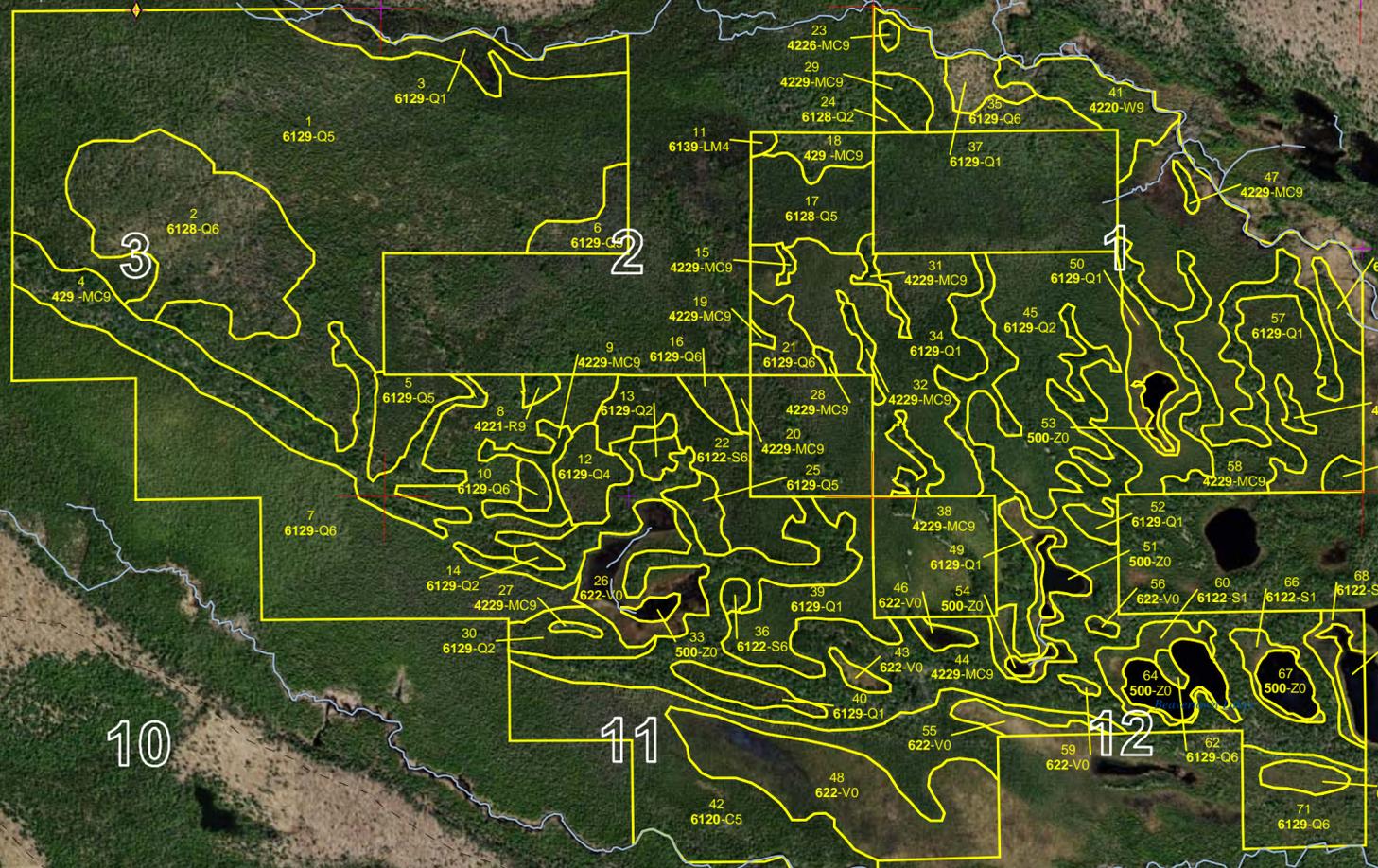
Level 3

- 422 - Natural Pines
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- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

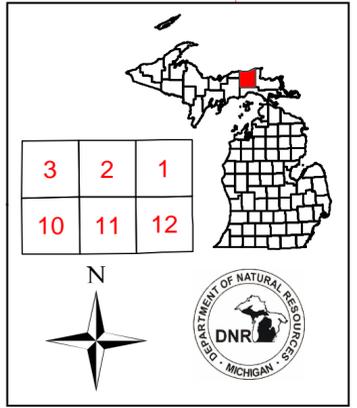
- 500 - Water
- 622 - Lowland Shrub



Dedicated & Proposed Special Conservation Area Map

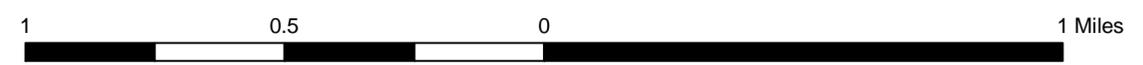
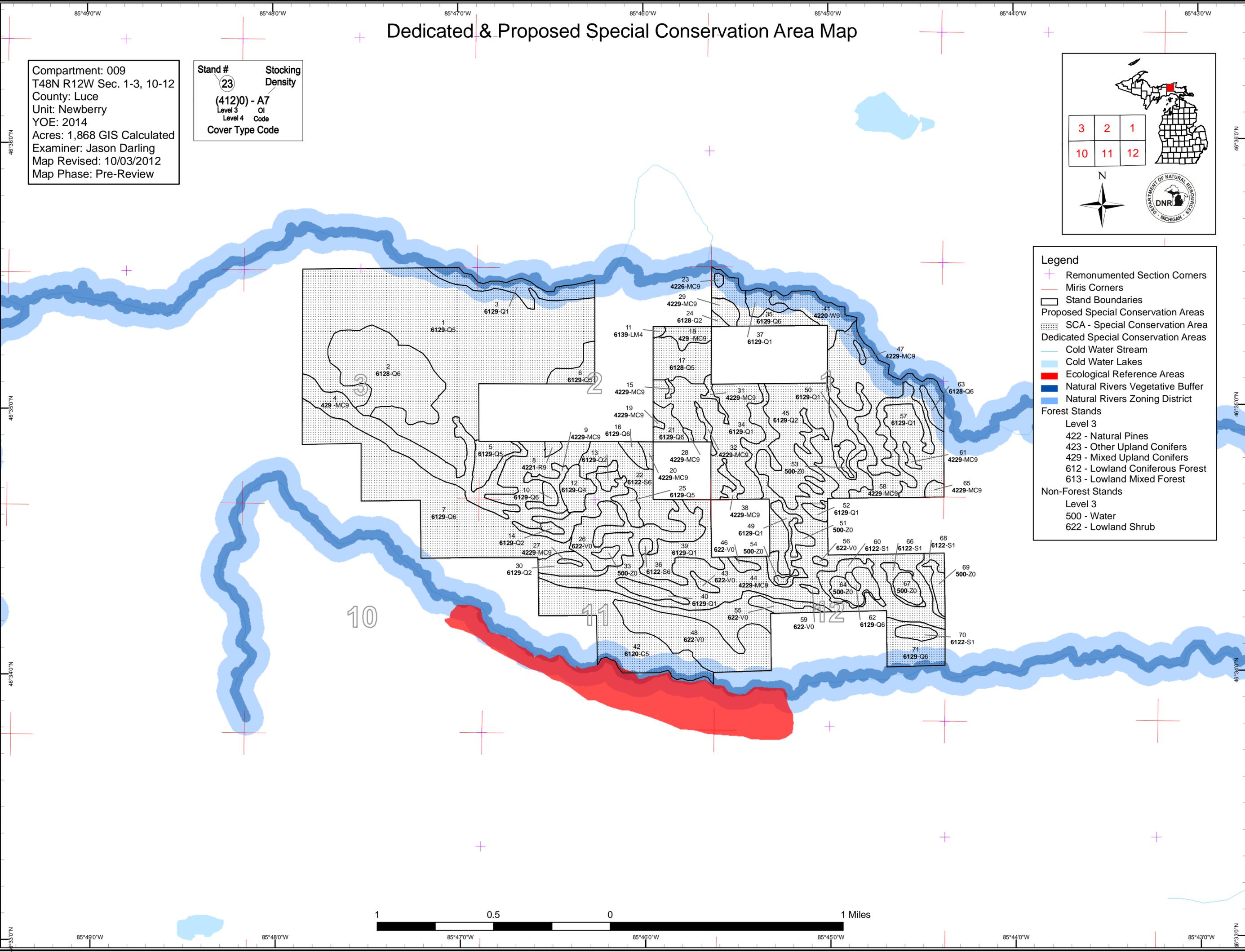
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Stand #
 23
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- ✚ Remonumented Section Corners
- Miris Corners
- ▭ Stand Boundaries
- ▭ Proposed Special Conservation Areas
- ▭ SCA - Special Conservation Area
- ▭ Dedicated Special Conservation Areas
- Cold Water Stream
- Cold Water Lakes
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Forest Stands**
- Level 3
- 422 - Natural Pines
- 423 - Other Upland Conifers
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- Non-Forest Stands**
- Level 3
- 500 - Water
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85°49'0"W 85°48'0"W 85°47'0"W 85°46'0"W 85°45'0"W 85°44'0"W 85°43'0"W

46°36'0"N 46°35'0"N 46°34'0"N 46°33'0"N

Table 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	
Bog	104	0	0	0	0	0	0	0	0	0	0	0	0	0	104
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	106	0	106
Lowland Conifers	0	0	0	0	0	85	322	13	268	28	425	0	0	0	1140
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Lowland Spruce/Fir	0	0	0	0	0	0	0	48	16	2	0	0	0	0	66
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	79	5	231	0	0	315
Red Pine	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Upland Conifers	0	0	0	0	0	0	0	0	0	63	9	0	0	0	72
Water	40	0	0	0	0	0	0	0	0	0	0	0	0	0	40
White Pine	0	0	0	0	0	0	0	0	0	0	21	0	0	0	21
Total	144	0	0	0	0	85	322	60	285	176	460	231	106	0	1868



Table 2 – Proposed Treatment Summaries

Newberry Mgt. Unit
Year of Entry 2014

Compartment 009
Total Compartment Acres: 1868

Acres by Treatment Type

Commercial Harvest - 0	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
	#Error	#Error	#Error	#Error	#Error	#Error	#Error
Total	#Error	#Error	#Error	#Error	#Error	#Error	#Error

S
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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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#Error

Prescription
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**Total Treatment
Acreage Proposed: 0**

Table 4 -- Treatments Prescribed with a Limiting Factor



S
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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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#Error

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Error

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: 0

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**Total Treatment
Acreage Proposed: 0**



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	342.5	103		The stand is a mixture of spruce, cedar and tamarack. The eastern portion of the stand opens up and has a higher component of alder. Some large supercanopy white pine are scattered throughout. Looking at the 1939, 1953 and the 1998 aerial photos, there were a number of roads that go through the north west portion of this stand, which indicates that this lowland area was logged from this stand some time ago. MNFI identifies an element community of a Type I or II Old Growth Rich Conifer Swamp which overlays part of this stand. In addition, the northern portion of the stand falls within the Two Hearted Natural Rivers Corridor.
2	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	83.0	58	51-80	MNFI identifies an element community of a Type I or II Old Growth Rich Conifer Swamp which overlays part of this stand.
3	6129 - Mixed Coniferous Lowland Forest	Low Density Sapling	25.4	100		Mixed lowland; Low density forested with cedar, spruce and tamarack throughout; mixed lowland brush throughout. The stand is part of the Two Hearted Natural Rivers Corridor.
4	429 - Mixed Upland Conifers	High Density Log	62.9	95	81-110	This stand has evidence of a high intensity fire. There are many large burnt stumps and standing snags present throughout the stand. Due to the absence of fire a community of mixed deciduous species has been able to develop, however they are starting to degrade. The dominate cover type is still White pine. MNFI identifies an element community of a Type I or II Old Growth Dry-mesic Northern Forest that overlays the majority of this stand. Looking at the 1939 aerial photos a road can be seen on the north side of the pine ridge; this could lead one to believe that logging did take place in this stand at one time.
5	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	14.7	103		
6	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	12.1	103		Based on aerial photo interpretation and surrounding field data, stand composition appears to be, in decreasing amounts, tamarack, spruce and some cedar with mixed lowland brush throughout.
7	6129 - Mixed Coniferous Lowland Forest	High Density Pole	184.2	87		The stand is a mixture of spruce, cedar and tamarack. Some large super canopy white pine are scattered throughout. MNFI identifies an element community of a Type I or II Old Growth Rich Conifer Swamp which overlays part of this stand. The stand is part of the Two Hearted Natural Rivers Corridor.
8	42210 - Natural Red Pine	High Density Log	2.3	95	141-170	Isolated pine ridge. Nice timber. Frequent sign of fire is evident throughout the stand.
9	42290 - Natural Mixed Pine	High Density Log	8.6	96	81-110	Isolated pine ridge. Nice timber. Frequent sign of fire is evident throughout the stand. MNFI identifies an element community of a Type I or II Old Growth Dry-mesic Northern Forest that overlays the part of this stand.
10	6129 - Mixed Coniferous Lowland Forest	High Density Pole	3.4	87		Small depression with a higher componenet of spruce than the surrounding areas.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
11	6139 - Mixed Lowland Forest	Low Density Pole	1.4	99		Based on aerial photo interpretation and surrounding field data, stand composition appears to be, in decreasing amounts, tamarack, spruce and some cedar with mixed lowland brush throughout.
12	6129 - Mixed Coniferous Lowland Forest	Low Density Pole	12.6	95		
13	6129 - Mixed Coniferous Lowland Forest	Medium Density	3.8	95		Mixed lowland; Low density forested with cedar, spruce, wp and tamarack throughout; mixed lowland brush are present throughout parts of the stand.
14	6129 - Mixed Coniferous Lowland Forest	Medium Density	2.2	85		Mixed lowland; Low density forested with cedar, spruce, wp and tamarack throughout; mixed lowland brush are dense throughout parts of the stand.
15	42290 - Natural Mixed Pine	High Density Log	1.1	103	51-80	This stand has evidence of a high intensity fire. There are many large burnt stumps and standing snags present throughout the stand.
16	6129 - Mixed Coniferous Lowland Forest	High Density Pole	5.1	85		Mixed lowland; Low density forested with cedar, spruce, white pine and tamarack throughout; mixed lowland brush throughout.
17	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	26.5	85		Mixed lowland; Low density forested with cedar, spruce, wp and tamarack throughout; mixed lowland brush throughout.
18	429 - Mixed Upland Conifers	High Density Log	9.1	103	51-80	This stand is a mixture of upland pine, lowland tamarack and spruce; scattered alder on the southern edge of the stand.
19	42290 - Natural Mixed Pine	High Density Log	1.0	105	51-80	This stand has evidence of a high intensity fire. There are many large burnt stumps and standing snags present throughout the stand. The dominate cover type is White/Red pine. Due to the absence of fire a community of mixed deciduous species has been able to develop, however they are starting to degrade.
20	42290 - Natural Mixed Pine	High Density Log	2.8	105	51-80	This stand has evidence of a high intensity fire. There are many large burnt stumps and standing snags present throughout the stand. Due to the absence of fire a community of mixed deciduous species has been able to develop, however they are starting to degrade. Part of the stand opens up and has lowland timber types.
21	6129 - Mixed Coniferous Lowland Forest	High Density Pole	10.5	68		Mixed lowland; Cedar, Spruce and Tamarack, mixed lowland brush and scattered large White pine throughout the stand.
22	6122 - Black Spruce	High Density Pole	36.0	78		
23	42260 - Natural Pine, Mixed Deciduous	High Density Log	1.2	98	81-110	Isolated pine ridge. Nice timber. Frequent sign of fire is evident throughout the stand. The stand is part of the Two Hearted Natural Rivers Corridor.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density	1.8	52		Mixed lowland; Low density forest; mixed lowland brush throughout.
25	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	7.0	95		Mixed lowland; Low density forested with cedar, spruce and tamarack, mixed lowland brush and scattered supercanopy white pine throughout the stand.
27	42290 - Natural Mixed Pine	High Density Log	1.2	96	81-110	Isolated pine ridge. Nice timber. Frequent sign of fire is evident throughout the stand.
28	42290 - Natural Mixed Pine	High Density Log	1.0	90	81-110	Isolated pine ridge. Nice timber. Frequent sign of fire is evident throughout the stand.
29	42290 - Natural Mixed Pine	High Density Log	6.4	98	81-110	
30	6129 - Mixed Coniferous Lowland Forest	Medium Density	12.4	85		
31	42290 - Natural Mixed Pine	High Density Log	3.2	95	81-110	This stand has evidence of a high intensity fire. There are many large burnt stumps and standing snags present throughout the stand. The dominate cover type is mixed pine. MNFI identifies an element community of a Type I or II Old Growth Dry-mesic Northern Forest that overlays the majority of this stand.
32	42290 - Natural Mixed Pine	High Density Log	3.2	95	81-110	This stand has evidence of a high intensity fire. There are many large burnt stumps and standing snags present throughout the stand. The dominate cover type is mixed pine. MNFI identifies an element community of a Type I or II Old Growth Dry-mesic Northern Forest that overlays the majority of this stand.
34	6129 - Mixed Coniferous Lowland Forest	Low Density Sapling	79.1	62		Spruce component picks up in the middle portion of the stand. Some parts of the stand are very sparsely vegetated.
35	6129 - Mixed Coniferous Lowland Forest	High Density Pole	21.6	100		The stand is a mixture of spruce, cedar and tamarack. Some large supercanopy white pine are scattered throughout. The northern portion of the stand falls within the Two Hearted Natural Rivers Corridor.
36	6122 - Black Spruce	High Density Pole	2.1	92		Nice pocket of spruce poles. Small diameters.
37	6129 - Mixed Coniferous Lowland Forest	Low Density Sapling	8.3	100		Very open, sparce lowland conifer forest.
38	42290 - Natural Mixed Pine	High Density Log	4.8	96	81-110	Isolated pine ridge. Nice timber. Frequent sign of fire is evident throughout the stand.
39	6129 - Mixed Coniferous Lowland Forest	Low Density Sapling	29.2	66		Mixed lowland; Low density forested with cedar, spruce and tamarack throughout; mixed lowland brush throughout.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	6129 - Mixed Coniferous Lowland Forest	Low Density Sapling	8.6	85		Mixed lowland; Low density forested with cedar, spruce and tamarack throughout; mixed lowland brush throughout.
41	42200 - Natural White Pine	High Density Log	21.4	103	51-80	This stand has evidence of a high intensity fire. There are many large burnt stumps and standing snags present throughout the stand. The stand is part of the Two Hearted Natural Rivers Corridor.
42	6120 - Lowland Cedar	Medium Density Pole	106.4	120		Stand is predominately non-commercial cedar. White pine component picks up as you get closer to the river. The stand is part of the Two Hearted Natural Rivers Corridor.
44	42290 - Natural Mixed Pine	High Density Log	230.8	110	51-80	This stand has evidence of a high intensity fire. There are many large burnt stumps and standing snags present throughout the stand. The dominate cover type is White/Red pine. MNFI identifies an element community of a Type I or II Old Growth Dry-mesic Northern Forest that overlays the majority of this stand.
45	6129 - Mixed Coniferous Lowland Forest	Medium Density	84.0	62		Mixed lowland; Low density forested with cedar, spruce and tamarack throughout; mixed lowland brush throughout. Trees have very small diameters.
47	42290 - Natural Mixed Pine	High Density Log	1.4	95	81-110	Isolated pine ridge. Nice timber. Frequent sign of fire is evident throughout the stand. The stand is part of the Two Hearted Natural Rivers Corridor.
49	6129 - Mixed Coniferous Lowland Forest	Low Density Sapling	12.5	75		Mixed lowland; Low density forested with cedar, spruce, wp and tamarack throughout; mixed lowland brush throughout.
50	6129 - Mixed Coniferous Lowland Forest	Low Density Sapling	12.5	69		Mixed lowland; Low density forested with cedar, spruce, wp and tamarack throughout; mixed lowland brush and grasses throughout.
52	6129 - Mixed Coniferous Lowland Forest	Low Density Sapling	3.8	62		Mixed lowland; Low density forested with cedar, spruce, wp and tamarack throughout; mixed lowland brush throughout. Trees have very small diameters.
57	6129 - Mixed Coniferous Lowland Forest	Low Density Sapling	102.6	69		Mixed lowland; Low density forested with cedar, spruce, wp and tamarack throughout; mixed lowland brush and grasses are dense throughout the stand. Part of the stand falls within the Two Hearted Natural Rivers Corridor.
58	42290 - Natural Mixed Pine	High Density Log	42.7	98	81-110	Isolated pine ridges. Nice timber. Frequent sign of fire is evident throughout the stand. Part of stand falls within the Two Hearted Natural Rivers Corridor. MNFI identifies an element community of a Type I or II Old Growth Dry-mesic Northern Forest that overlays a small part of this stand.
60	6122 - Black Spruce	Low Density Sapling	10.5	82		Mixed lowland surrounding Beavertown Lakes; Low density forested with spruce, wp and tamarack throughout; mixed lowland brush and grasses are dense throughout the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	42290 - Natural Mixed Pine	High Density Log	2.3	92	51-80	Isolated pine ridge, heavier to WP. Nice timber. Frequent sign of fire is evident throughout the stand.
62	6129 - Mixed Coniferous Lowland Forest	High Density Pole	1.7	82		Slight change in elevation around Beavertown Lakes, which allows more WP into the stand.
63	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	5.1	96	81-110	This stand is a mixture of pine and lowland conifers ; scattered alder/grass throughout. The stand is part of the Two Hearted Natural Rivers Corridor.
65	42290 - Natural Mixed Pine	High Density Log	3.3	98	51-80	Isolated pine ridge. Nice timber. Frequent sign of fire is evident throughout the stand.
66	6122 - Black Spruce	Low Density Sapling	4.8	70		Mixed lowland; Low density forested with cedar, spruce, wp and tamarack throughout; mixed lowland brush and grasses are dense throughout parts of the stand.
68	6122 - Black Spruce	Low Density Sapling	6.9	70		Mixed lowland; Low density forested with cedar, spruce, wp and tamarack throughout; mixed lowland brush and grasses are dense throughout parts of the stand.
70	6122 - Black Spruce	Low Density Sapling	5.8	82		Mixed lowland; Low density forested with cedar, spruce, wp and tamarack throughout; mixed lowland brush and grasses are dense throughout parts of the stand.
71	6129 - Mixed Coniferous Lowland Forest	High Density Pole	24.1	85		Mixed lowland; Low density in some areas. Cedar, spruce, wp and tamarack throughout; mixed lowland brush and grasses are dense in parts of the stand. White pine component picks up as you get closer to the river. The stand is part of the Two Hearted Natural Rivers Corridor.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
26	6225 - Bog	26.3	N/A	Unspecified	
33	50 - Water	2.6	No	Unspecified	
43	6225 - Bog	2.8	No	Unspecified	
46	6225 - Bog	3.2	No	Unspecified	
48	6225 - Bog	63.0	No	Unspecified	
51	50 - Water	4.8	No	Unspecified	
53	50 - Water	3.7	No	Unspecified	
54	50 - Water	1.6	No	Unspecified	
55	6225 - Bog	6.5	No	Unspecified	
56	6225 - Bog	1.2	No	Unspecified	
59	6225 - Bog	1.0	No	Unspecified	
64	50 - Water	13.0	No	Unspecified	
67	50 - Water	7.7	No	Unspecified	
69	50 - Water	6.4	No	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	Unique Site - SCA	42009 SCA	1471.8	Special Conservation Area consists of a number of different timber and lowland cover types. MNFI identifies several element occurrence polygons and points throughout this AOI; refer to their notes for more details. Part of the AOI also consists of the Two Hearted Natural Rivers Corridor. Some evidence of logging is evident in the northwest portion of the AOI but it is developing back into its original condition. The SCA covers many unique plant and forested/non-forested communities all which, if left in their current condition, will enhance the diversity of the surrounding landscape.
multiple - see	Unique Site - SCA	42009 Type II OG	62.9	This stand has evidence of a high intensity fire. There are many large burnt stumps and standing snags present throughout the stand. Due to the absence of fire a community of mixed deciduous species has been able to develop, however they are starting to degrade. The dominate cover type is still White pine. MNFI identifies an element community of a Type I or II Old Growth Dry-mesic Northern Forest that overlays the majority of this stand. Looking at the 1939 aerial photos a road can be seen on the north side of the pine ridge; this could lead one to believe that logging did take place in this stand at one time.
multiple - see	Unique Site - SCA	Beavertown Lakes Type I OG	333.7	MNFI identifies an element community of a Type I or II Old Growth Dry-mesic Northern Forest for parts of this AOI. This AOI qualifies as Type 1 old growth; there is no evidence of logging. Several trees were cored and on average the age is ~100, which does not meet the 150 year requirement for Type 1 Old Growth, however the stand origin is due to a natural fire event. Several isolated pine ridges are included in the AOI.



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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.