



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42050

Entry Year 2017

Acreage: 2,486

County Luce

Management Area: Charcoal Grade

Revision Date: 2015-09-04

Stand Examiner: Matt Payment

Legal Description:

T48N R8W Sections 29, 30, 31 and 32.

Identified Planning Goals:

To maintain a healthy sustainable forest with special consideration to wildlife and fisheries habitat.

Soil and topography:

A wide variety of soil types occur within this compartment. Majority of the upland soil types are sand and sand complexes (Kalkaska and Wallace are most common). There are four lowland soil types in the compartment with the Carbondale, Lupton and Tawas type being the most common. Topography is a mixture of fairly flat to gently rolling hills in the north to more abrupt ridges in the south.

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

State land borders the compartment the north and south. Several small parcels of private ownership border the compartment to the west where some of the owners have harvested timber from their parcels, with the majority using their land for recreational purposes. To the east is a mixture of state and private ownerships. There is a hunting club which owns a large parcel of land which they have clearcut a large portion in the past to increase wildlife habitat. Other private ownerships seem to be using their land primarily for recreation.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Evidence of Past logging activity from the charcoal days of the 1930's is readily available throughout the compartment. Old railroad grades and old logging camp sites can still be distinguished from the surrounding landscape. One site is located in this compartment, an historic logging camp, 20LC15.. As long as there are no treatments in this stand, we have no concerns. Otherwise, the site should be buffered and left out of any treatment.

Special Management Designations or Considerations:

BMP guidelines should be followed around the intermittent streams, Linton and Baird creek watercourses. Most of the management will occur in the summer months and special care should be taken to keep the Camp Seven road and Charcoal grade good enough shape to be passable with a two wheel drive vehicle as these roads are heavily used to access private ownerships along the Tahquamenon river.

Watershed and Fisheries Considerations:

Fisheries Values: Good

Fisheries Concerns: Baird, Penny, and the Linton Creek systems are designated trout waters. These streams are small, but still provide habitat for native Brook Trout. No formal surveys have been conducted on these. Since these all of these streams are designated trout streams (exception North Branch and Middle Branch Linton Creek) and there are no treatments in aspen stands, a minimum of a 125 ft buffer should be maintained in stands where treatments are occurring.

Wildlife Habitat Considerations:

Compartment 50 lies in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment is in the Charcoal Grade Management Area and has American marten, black bear, moose, ruffed grouse and spruce grouse as featured species. The compartment is comprised of large hardwood stands mixed with swamp conifers, lowland brush and swamp hardwoods. The compartment appears to have a greater hardwood component than during

presettlement times. There is a small amount of wildlife purchased lands in the southern portion of this compartment.

Maintaining structural and species diversity as much as possible in harvested stands will help achieve wildlife objectives in this compartment. Hemlock and cedar are being retained compartment wide. Leave trees will provide food sources, nest and den locations and improved stand diversity. Species utilizing this compartment include white-tailed deer, black bear, moose, gray wolf, American marten, fisher, mink, otter, and ruffed grouse.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine sand and gravel and an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Cambrian Trempealeau Formation and Ordovician Prairie du Chien Group subcrop below the glacial drift. The Trempealeau could be used for stone. The nearest gravel pit is located one mile to the southeast, in Section 3 (T47N R8W), and there may be potential on the uplands. There is no economic oil and gas production in the UP.

Vehicle Access:

Access to the majority of the compartment is readily available to the public through the Camp Seven road which comes off M-123 and passes through sections 29 and 32 where it connects to the charcoal grade which exits the compartment to the south. There are two forest roads which are heavily traveled by vehicles/ATVs that connect the Fordney Tower road to the Camp Seven road.

Survey Needs:

Eastern edge of the compartment there is a possible trespass in Section 29, NE 1/4. Survey needed to establish property line.

Recreational Facilities and Opportunities:

Snowmobile trail runs through compartment and consideration should be given to keep harvesting operations to the snowmobile "off-season".

Fire Protection:

Fires in this compartment should remain small and slow growing because of hardwood and swamp conifer types. The quantity of low ground in this compartment may limit use of fire fighting equipment.

Additional Compartment Information:

The following reports from the Inventory are attached:

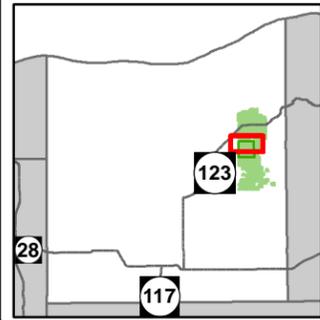
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

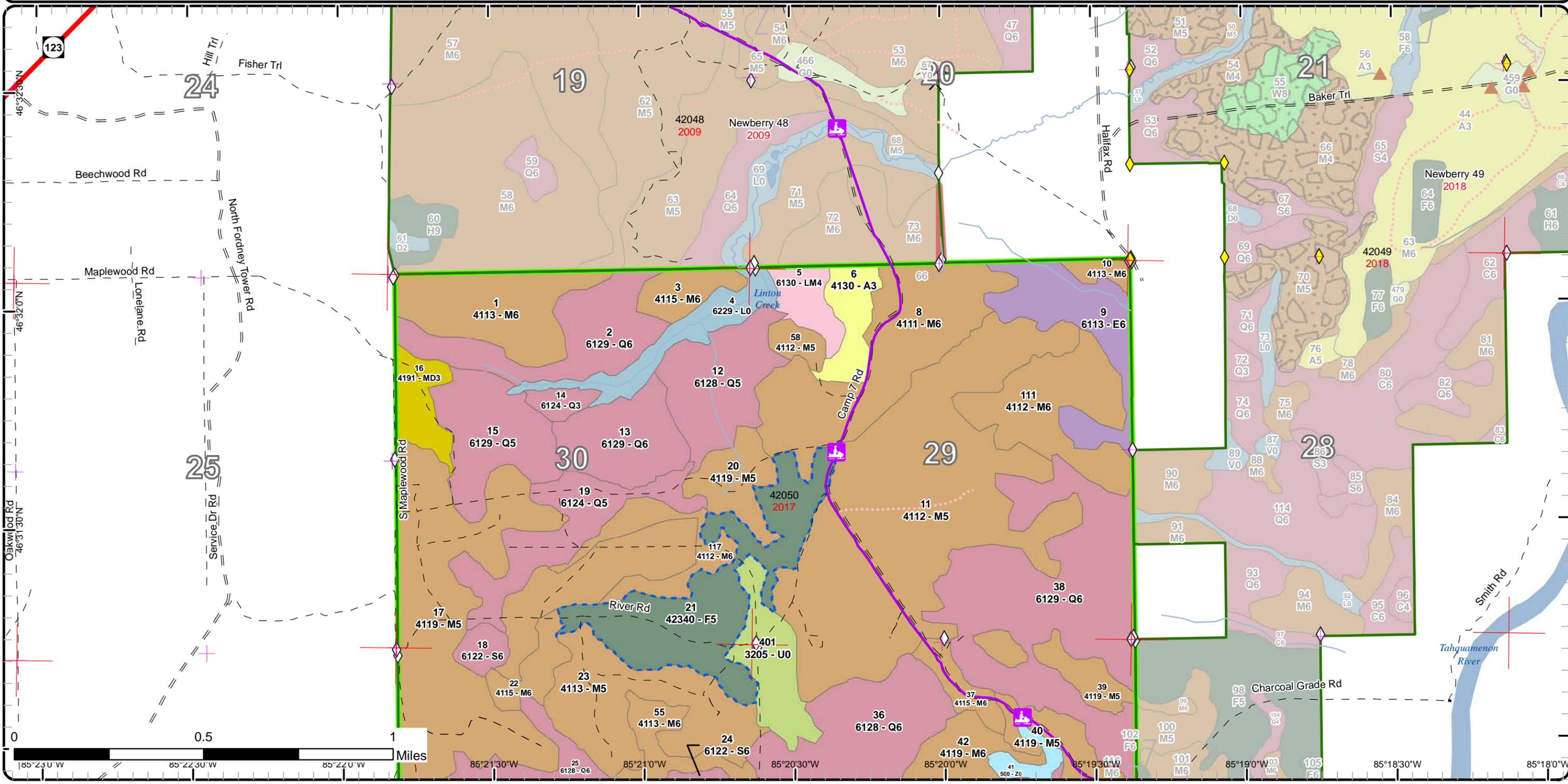
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

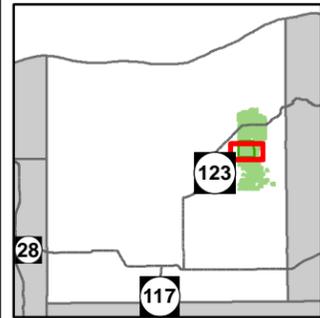
Compartment: 50
 T48N R08W 29-32
 County: Luce
 Unit: Newberry
 Mgmt Area: Charcoal Grade
 YOE: 2017
 Acres: 2486 GIS Calculated
 Examiner: Matt Payment
 Map Revised: 3/30/2016
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- 🚙 Snowmobile Trails
- Designated Snowmobile Trails
- X Gate
- ▲ Berms
- Highway
- Paved Roads
- Gravel Roads
- - - Poor Dirt Roads
- - - Closed Roads
- Rivers
- Compartment Boundary
- Treatments with Site Conditions (pd)
- Treatments with Site Conditions
- Forest Coverture
 - 411 - Northern Hardwood
 - 413 - Aspen
 - 419 - Mixed Upland Deciduous
 - 423 - Other Upland Conifers
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Coverture
 - 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- Lakes



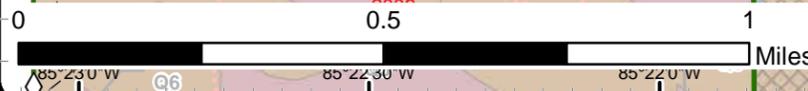
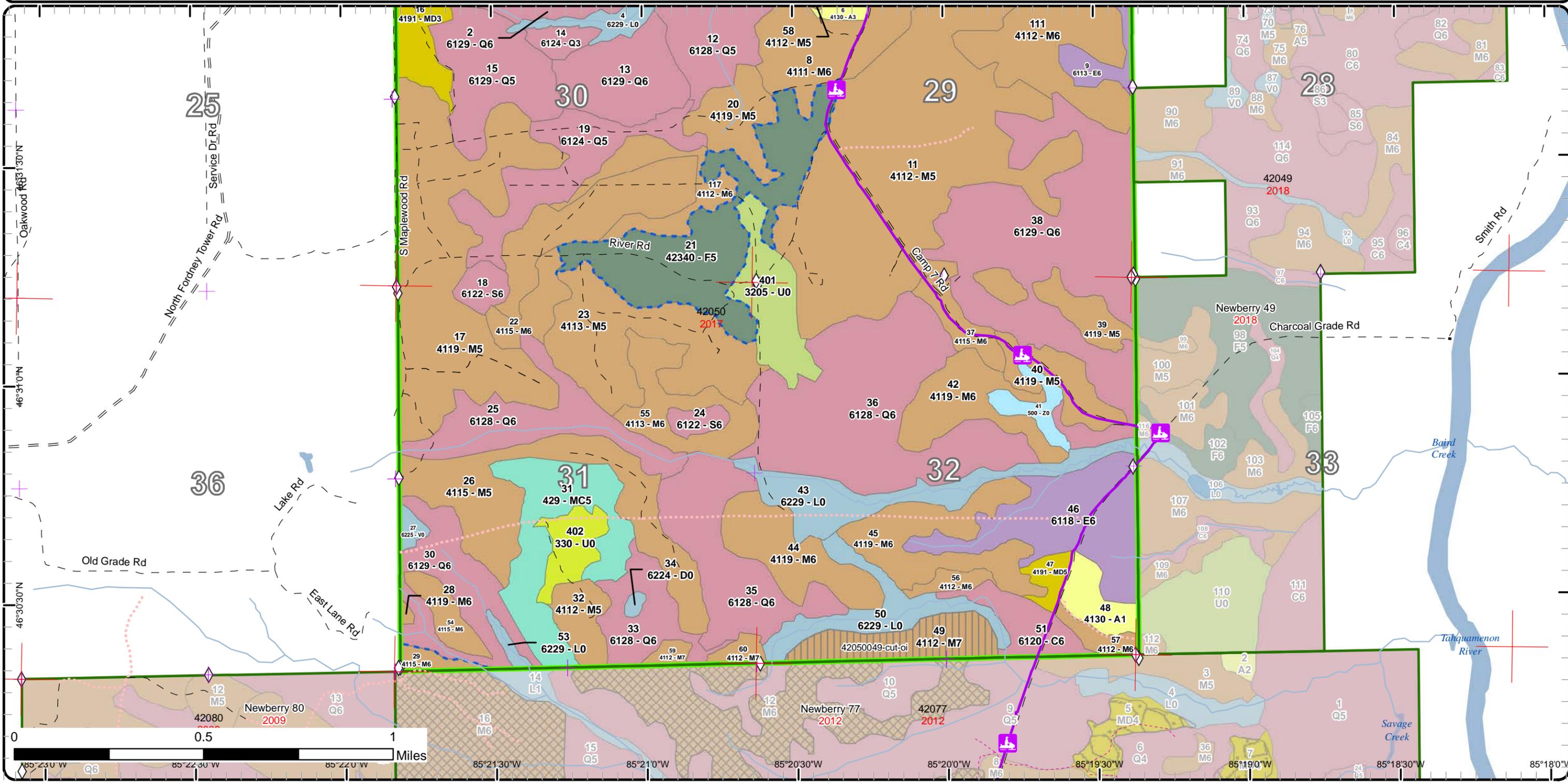
Cover Type & Treatments Map



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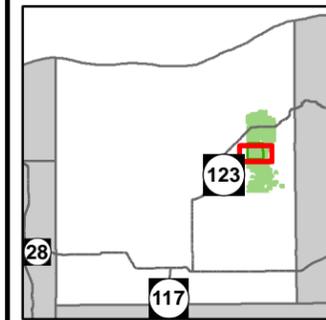


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 - ◇ Field Grade GPS Corners
 - 🚙 Snowmobile Trails
 - Designated Snowmobile Trails
 - Paved Roads
 - Gravel Roads
 - Poor Dirt Roads
 - Trail (Non-Recreation)
 - Closed Roads
 - Rivers
 - ▭ Compartment Boundary
- Treatments with Site Conditions (pd)
 - ▭ Treatments with Site Conditions
 - Treatments
 - ▭ Shelter Wood (w/Reserves)
 - Forest Coverture
 - 411 - Northern Hardwood
 - 413 - Aspen
 - 419 - Mixed Upland Deciduous
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
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 - 612 - Lowland Coniferous Forest
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- 330 - Low Density Trees
 - 500 - Water
 - 622 - Lowland Shrub
 - Lakes

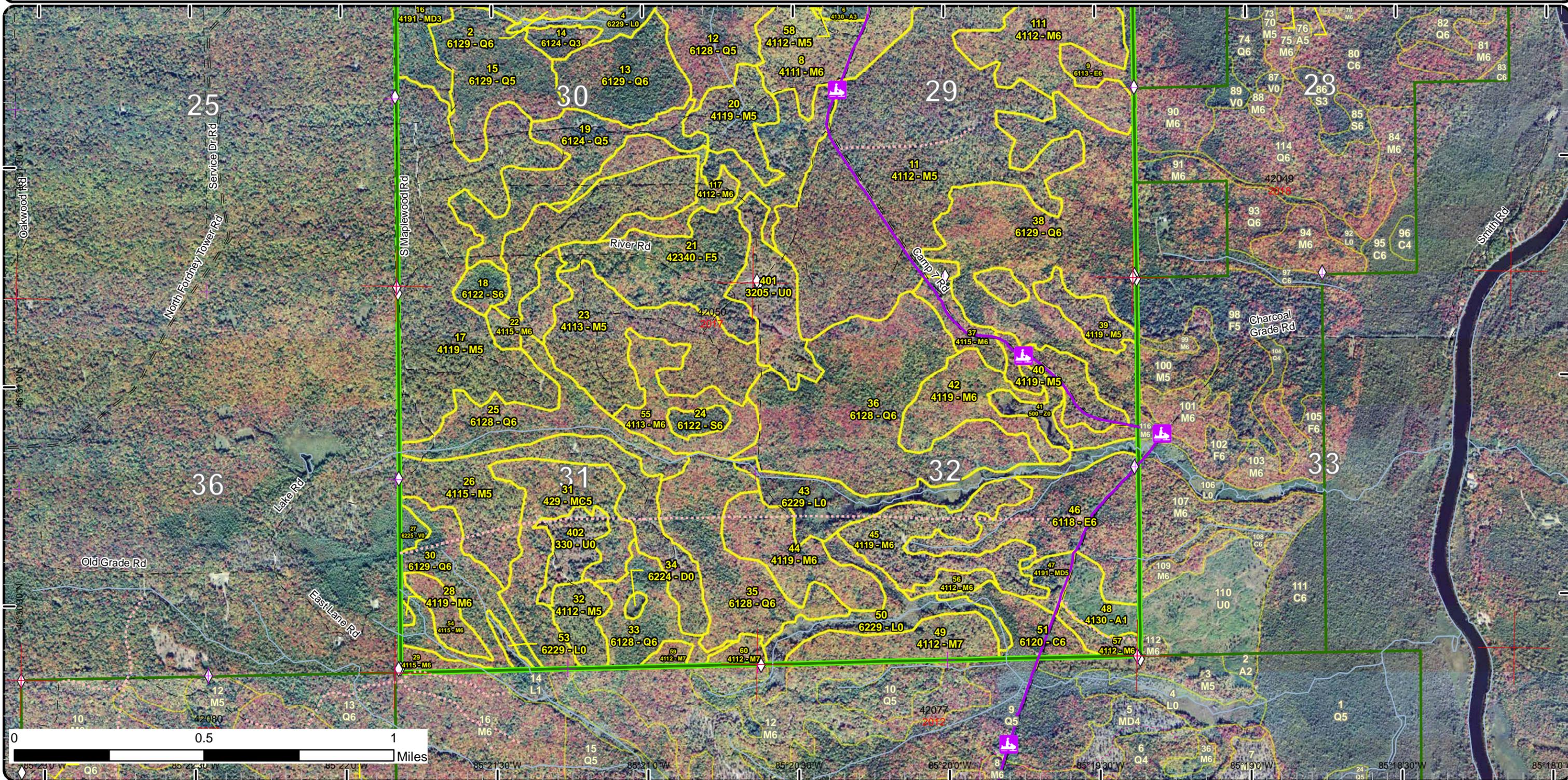


Stand Boundary Map

Compartment: 50
 T48N R08W 29-32
 County: Luce
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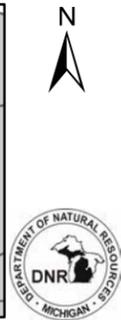
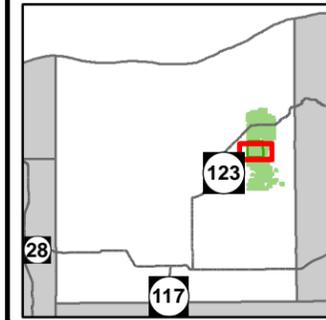


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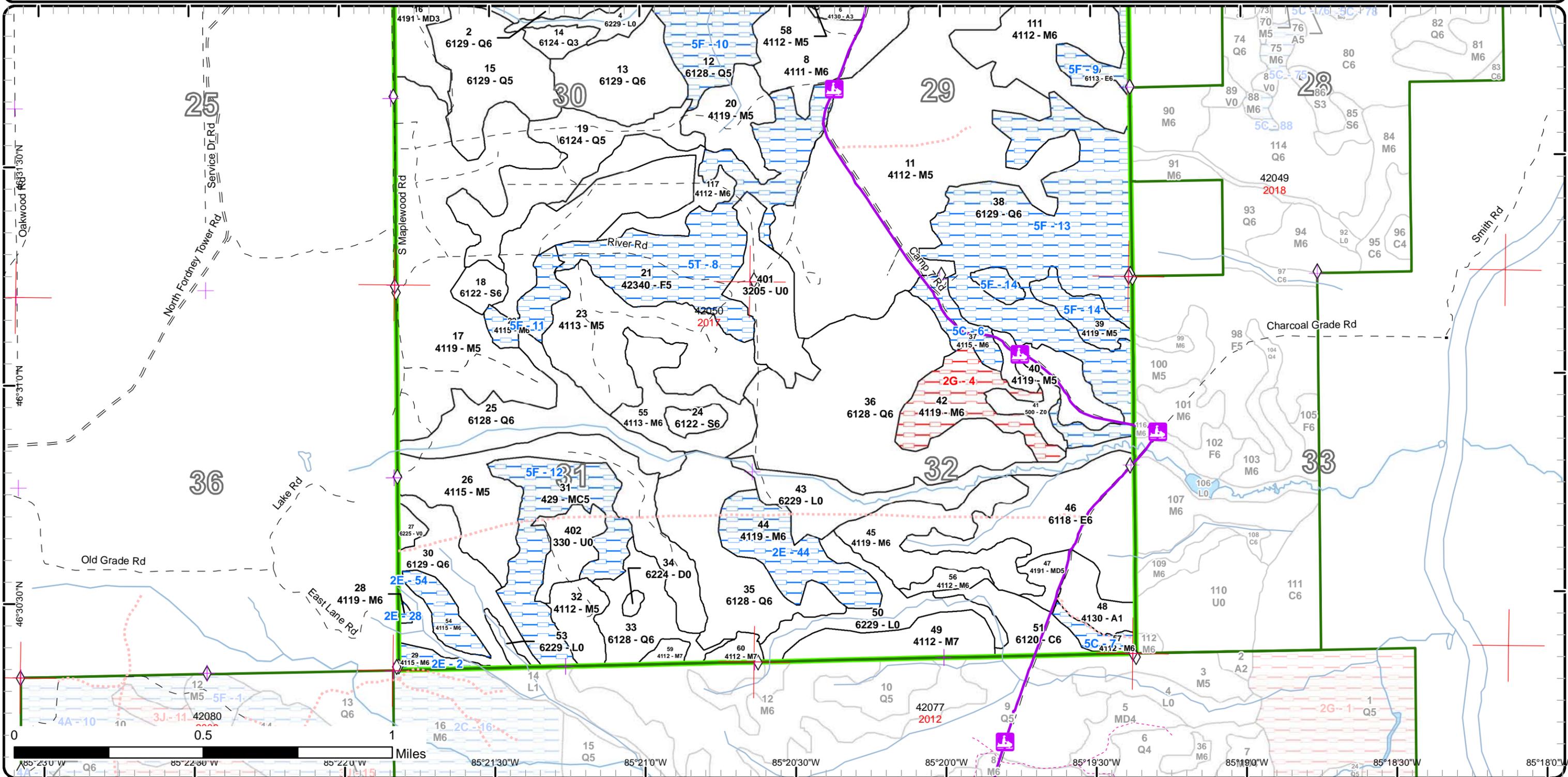


Special Conservation Areas & Site Conditions Map

Compartment: 50
 T48N R08W 29-32
 County: Luce
 Unit: Newberry
 Mgmt Area: Charcoal Grade
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- Gravel Roads
- - Poor Dirt Roads
- - - Trail (Non-Recreation)
- - - - Closed Roads
- Rivers
- ▭ Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2E: Road needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5T: Contingency Treatment for Forest Health Concerns
- 2G: Too wet (sensitive soils, does not include access issues)
- ▭ Stand Boundaries
- Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	15	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Cedar	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	21
Low-Density Trees	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Conifers	0	0	0	8	50	0	0	0	0	0	0	0	0	0	0	0	0	677	735
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	114
Lowland Mixed Forest	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Shrub	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	6	15
Mixed Upland Deciduous	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	20	28
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1197	1197
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	58
Upland Shrub	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Upland Spruce/Fir	0	0	0	0	0	92	0	0	0	0	0	0	0	0	0	0	0	0	92
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Total	174	15	0	8	71	92	17	29	0	0	0	9	0	0	0	0	0	2072	2487



Report 2 – Treatment Summary

Newberry Mgt. Unit

Compartment 50

Year of Entry:

Acres of Harvest

Total Compartment Acres: 2,486

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

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Conifers	43	0	0	0	0	0	0	0	0	43
Lowland Spruce/Fir	9	0	0	0	0	0	0	0	0	9
Northern Hardwood	0	125	0	0	31	0	0	0	0	156
Upland Spruce/Fir	92	0	0	0	0	0	0	0	0	92
Total	144	125	0	0	31	0	0	0	0	299

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	299	0	0	0	30	0	0	0	0	330
Next Step	0	0	95	0	0	0	330	0	0	425
Total	299	0	95	0	30	0	330	0	0	755



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
13	42050013-Cut	42.9	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	79	141-170	Harvest	Clearcut with Retention	6128 - Lowland Coniferous, Mixed Deciduous	Uneven-Aged	Proposal
<p>Habitat Cut: No Site Condition:</p> <p><u>Prescription</u> Cut all species present. Leave all hemlock, white pine, and yellow birch.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed lowland conifer and/or mixed deciduous species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Old next step comments:</p> <p><u>Comment:</u></p> <p><u>Proposed Start Date:</u> 10/01/2016</p>											
18	42050018-Cut	9.1	6122 - Black Spruce	Poletimber Well	105	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Proposal
<p>Habitat Cut: No Site Condition:</p> <p><u>Prescription</u> Cut all species present, except leave all hemlock and any large white pine over 16".</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Lowland conifer species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Old next step comments:</p> <p><u>Comment:</u></p> <p><u>Proposed Start Date:</u> 10/01/2016</p>											
21	42050021-Cut	91.7	42340 - Upland Spruce/Fir	Poletimber Medium	49	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Proposal - Approval Pending Edits
<p>Habitat Cut: No Site Condition: Contingency Treatment</p> <p><u>Prescription</u> Clear cut with retention. Cut all species present except if any hemlock, cedar, or yellow birch. Trees can be cut for maneuverability.</p> <p><u>Specs:</u></p> <p>Retention can be single trees or in the form of a retention pocket.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed conifers with some deciduous species is the acceptable regeneration.</p> <p><u>Regen:</u></p> <p><u>Other</u> Old next step comments:</p> <p><u>Comment:</u></p> <p><u>Proposed Start Date:</u> 10/01/2016</p>											
29	42050029-Cut	6.0	4115 - Y.Birch, Hemlock NH	Poletimber Well	81	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Proposal
<p>Habitat Cut: No Site Condition: Road Needed</p> <p><u>Prescription</u> Single Tree selection. Thin stand with Stand 16 to the south in C77. Follow same prescription as stand 16.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Deciduous species are acceptable regeneration.</p> <p><u>Regen:</u></p> <p><u>Other</u> Old next step comments:</p> <p><u>Comment:</u></p> <p><u>Proposed Start Date:</u> 10/01/2016</p>											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
49	42050049-cut-oi	30.9	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	110	51-80	Harvest	Shelterwood	41199 - Northern Hardwood (OI)	Uneven-Aged	Completed - Pending Edits

Habitat Cut: No**Site Condition:**

Prescription OPIC - FMD: Soils are a Zandi silt loam. Access is very questionable to this stand, very old road appears to enter stand from the south, but am not sure where it comes from (possibly from the Ball camp road from compartment to the south). Stand is of

Next Step
Treatments:

Acceptable Northern Hardwoods and a component of conifers are acceptable regeneration.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/01/2016

55	42050055-Cut	33.8	4113 - R.Maple, Conifer	Poletimber Well	82	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin stand 70-90 BA. Target all species present.
Specs: Remove all beech, aspen, and balsam fir.

Leave all hemlock and white pine.

Next Step Monitoring, Natural Regen (Re-Inventory); Planting, Initial Plant
Treatments:

Acceptable Mixed northern hardwoods.
Regen:

Other WLD - Create some larger brush piles for rabbit habitat. Leave some of the more limby trees and some of the beech.
Comment:

Possibly follow up with oak planting. Old next step comments:

Proposed Start Date: 10/01/2016

111	42050111-Cut	60.8	4112 - Maple, Beech, Cherry Association	Poletimber Well	69	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin stand 70-90 BA. Target all species present.
Specs: Remove all beech, aspen, and balsam fir.

Leave all hemlock and white pine.

Next Step Monitoring, Natural Regen (Re-Inventory); Planting, Initial Plant
Treatments:

Acceptable Mixed northern hardwoods.
Regen:

Other WLD - Plant oak throughout stand potentially after harvest. Old next step comments:
Comment:

Proposed Start Date: 10/01/2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
117	42050117-Cut	24.2	4112 - Maple, Beech, Cherry Association	Poletimber Well	82	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Thin stand to 70-90BA. Thin maple and cherry. Remove all balsam, beech, and aspen in the stand.

Specs:
Leave all yellow birch, hemlock, and some larger white pine.

Next Step Treatments:

Acceptable Regen: Acceptable regeneration is mixed northern hardwoods.

Other Comment: Old next step comments:

Proposed Start Date: 10/01/2016

401	42050401-Burn	30.5	3205 - Mixed Upland Shrub	Nonstocked		1-50	Burn	Opening	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

Prescription Burn stand to remove forested components to create opening for wildlife.

Specs:

Next Step Treatments:

Acceptable Regen: Seasonal grasses.

Other Comment: Old next step comments:

Proposed Start Date: 10/01/2016

Total Treatment Acreage Proposed: 329.9

Report 5 – Site Conditions

Newberry Mgt. Unit
Matt Payment : Examiner

Compartment: 50
Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		2E	5C	5F	5T	2G
36	36	0	0	Aspen					
4	4	0	0	Bog					
21	21	0	0	Cedar					
17	17	0	0	Low-Density Trees					
734	527	207	0	Lowland Conifers	0		207		
114	66	48	0	Lowland Deciduous			48		
17	0	0	17	Lowland Mixed Forest					17
106	106	0	0	Lowland Shrub					
15	15	0	0	Lowland Spruce/Fir					
28	28	0	0	Mixed Upland Deciduous					
1197	969	176	52	Northern Hardwood	113	21	42		52
2	2	0	0	Treed Bog					
58	0	58	0	Upland Conifers			58		
34	34	0	0	Upland Shrub					
92	0	92	0	Upland Spruce/Fir				92	
11	11	0	0	Water					
2,486	1,837	581	68	Total Forested Acres	113	21	355	92	68
	74%	23%	3%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	2E: Road needed	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is wet and has difficult access which has to be from the north through the adjacent compartment.							
2	Available	2E: Road needed	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is remote making access from bordering compartments the easiest way to reach it.							

Report 5 – Site Conditions

Newberry Mgt. Unit
 Matt Payment : Examiner

Compartment: 50
 Year of Entry: 2017

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand should be cut with Stand 1. Stand was determined to be too wet last cycle and is still considerably wet. Hold until next cycle or try to access it to cut possibly in the winter months.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Newberry Mgt. Unit
 Matt Payment : Examiner

Compartment: 50
 Year of Entry: 2017

8	Available	5T: Contingency Treatment for Forest Health Concerns	92	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5F: Evaluated for Forest Health Considerations	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Evaluated for SBW.							
10	Available	5F: Evaluated for Forest Health Considerations	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Evaluated for SBW.							
11	Available	5F: Evaluated for Forest Health Considerations	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Evaluated for SBW.							
12	Available	5F: Evaluated for Forest Health Considerations	58	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Evaluated for SBW.							
13	Available	5F: Evaluated for Forest Health Considerations	156	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Evaluated for SBW.							

Report 5 – Site Conditions

Newberry Mgt. Unit
Matt Payment : Examiner

Compartment: 50
Year of Entry: 2017

14	Available	5F: Evaluated for Forest Health Considerations	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Evaluated for SBW.							
15	Available	5F: Evaluated for Forest Health Considerations	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	2E: Road needed	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Available	2E: Road needed	38	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Evaluated for SBW.							
54	Available	2E: Road needed	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4113 - R.Maple, Conifer	Poletimber Well	56.5	78	141-170	There is much better access to the stand from the north. Balsam and spruce should be cut and cedar, white pine and hemlock should be retained. There is a small volume of beech which should be cut in stand because it is severely dying. Stand was looked at when Stand 58 was set up for sale. Was determined that stand was inferior quality, too small in diameter, and wet. Not included in timber sale to the north. Possibly hold for retention or age class diversity.
2	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	55.5	85	171-200	Stand has hardwoods surrounding it and slowly changes into a lowland cedar, spruce, white pine stand. Stand is wet and cutting would be difficult.
3	4115 - Y.Birch, Hemlock NH	Poletimber Well	16.5	79	111-140	Best access appears to be from the north to access this stand. Beaver activity to the south in the marshy drainage. Stand should be harvested along with stand 1 if access permits. Stay 125' from Linton Creek when setting up the sale. Stand was looked at when Stand 58 was set up for sale. Was determined that stand was inferior quality, too small in diameter, and wet. Not included in timber sale to the north. BBD is present in the stand, if/and when stand gets cut all infected stems should be removed.
5	6130 - Fir, Aspen, Maple	Poletimber Poor	16.7	57	1-50	Stand is basically a wet swail that dries out in the summer. Currently has standing water in places. Stand is low enough that beaver activity in stand 4 may impact it.
6	4130 - Aspen	Sapling Well	21.0	30	51-80	Stand was final harvested in the 1980's but was never completed according to old inventory. Some areas were lightly cut and have larger aspen and red maple left in the overstory. Areas that were cut are coming back to aspen, birch, balsam, and maple. Easy access from Camp 7 road. Some hemlock also present in the stand.
8	4111 - S.Maple, Hard Mast Association	Poletimber Well	95.2	71	81-110	Good stand of Northern Hardwoods. Nicely thinned in 1997 (sale#=42-033-97-01) ready for selection harvest next rotation. Excellent access. Pockets of balsam fir in understory. Some trees have BBD.
9	6113 - Lowland Maple	Poletimber Well	47.9	76	81-110	Lowland stand with hardwood ridges within. Low quality poor formed hardwood trees. Possible shelterwood within this stand. Lower areas with drainage's have more spruce, cedar and balsam fir present.
10	4113 - R.Maple, Conifer	Poletimber Well	6.5	63	81-110	Stand separated from "E" type by a 10 ft ridge running NW to SE. Stand extremely heavy to fir along western edge. Corner is located in thick fir, 5ft off halifax trail. Possible trespass of building that's part of the halifax club. Hunting trails from Halifax club enter stand from the east.
11	4112 - Maple, Beech, Cherry Association	Poletimber Medium	242.4	76	81-110	Stand is mainly red and sugar maple with some large scattered aspen that were left after last cutting. Good amount of balsam fir throughout the stand with some dying or dead beech. Some hemlock in the lower wetter areas of the stand on the east side. Large amount of shield fern in openings throughout stand. Stand harvested via selection harvest as sale #024-07-01, C. 50 Eastern Hardwoods. Completed 05/17/12. Stand 111 is the uncut part of stand 11.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
12	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	51.0	87	51-80	Clearcut between 1976 and 1980. Stand is regenerating very nicely and is very thick. Hemlock and White Pine were never cut and are scattered throughout the regeneration. Average height is 30-34 feet. Soils are Spot Finch. Small drainage's in stand.
13	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	42.9	79	141-170	Stand is bordered on east and west by two clearcuts preformed around 1980. Ground cover is Sphagnum moss. Small drainage's in stand. Access should be easy from the south.
14	6124 - Lowland Spruce- Fir	Sapling Well	7.6	27	81-110	Stand was clearcut in 1989 (sale #42-020-88-01). Stand is coming back to a mixture of red maple, black spruce and balsam fir. Hemlock and white pine were never cut and are scattered throughout stand. Stand is wet and low bordering large drainage to the north.
15	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	50.9	89	51-80	Stand was clearcut between 1976 and 1980. Stand is regenerating nicely and is very thick. Hemlock and white pine were not cut and are scattered throughout stand. Ground cover is heavy to sphagnum moss. Small drainage's in stand.
16	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	19.9	27	1-50	Stand was clearcut in 1989 (sale# 42-020-88-01) Hemlock and white pine were left and are scattered throughout the stand. Aspen, red maple, cherry and fir seeding in, aspen is tallest. Aspen is reaching 2-4 sticks but there is a larger amount of white pine and hemlock scattered throughout the stand.
17	4119 - Mixed Northern Hardwoods	Poletimber Medium	190.3	75	81-110	Stand of hardwoods, mainly sugar maple with lower areas transitioning into red maple. BA varies throughout the stand but consistently was between 70-110. More poles/logs in the stand than just log size timber. Some remaining larger white pine, aspen, yellow birch, and hemlock are scattered throughout stand being left after the last cutting. Lower areas have thick spots of balsam fir coming in. Some of the remaining beech still have BBD on them, most are dead or dying. Stand harvested via selection harvest as sale #045-07-01, Linton Baird Creek Hardwoods. Complete 10/20/10. Stand harvested via selection as sale #043-07-01, Comp 50 Western Hardwoods. Complete 07/05/2013.
18	6122 - Black Spruce	Poletimber Well	9.1	105	81-110	Stand is mainly black spruce with a few minor species scattered throughout the stand. Ground was extremely wet. Stand should be harvested with stand 19 to the north next entry.
19	6124 - Lowland Spruce- Fir	Poletimber Medium	49.6	36	81-110	Stand varies in species as you move throughout it. According to previous examiner stand is an old grass opening that is reverting to fir. A well used road/ atv trail runs through north part of stand. Hold stand and harvest with stand 18 next entry.
20	4119 - Mixed Northern Hardwoods	Poletimber Medium	25.5	72	51-80	Stand is mainly sugar maple. A drainage separates this stand from stand 8 to the NE. Old grade runs north through stand. A well used forest road/ atv trail runs east west through stand. Stand harvested via selection harvest as sale #045-07-01, Linton Baird Creek Hardwoods. Complete 10/20/10.
21	42340 - Upland Spruce/Fir	Poletimber Medium	91.7	49	81-110	Stand is converting over to a spruce fir mix with some white pine, hemlock, and red maple mixed throughout the stand. Easy access with road running through the middle of the stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4115 - Y.Birch, Hemlock NH	Poletimber Well	16.0	62	81-110	Stand has similar characteristics as stand 21 but has more hardwoods that are poorly formed. Stand is a mixture of openings, pockets of fir and open grown hardwoods. Cut with stand 21 next entry.
23	4113 - R.Maple, Conifer	Poletimber Medium	74.3	78	51-80	Stand is regenerating nicely after last harvest. A few tops of the maple begging to show some die back. Overall stand looks healthy. Old railroad grade provides excellent access into stand from the east edge of stand through the grassy opening. Understory is a mix of balsam and red maple saplings. Intermittent stream to the south and a few drainage's in southern part of stand. Stand harvested via selection harvest as sale #045-07-01, Linton Baird Creek Hardwoods. Complete 10/20/10. Only approximately 74 acres were harvested. SE portion was left for retention. See tsale map.
24	6122 - Black Spruce	Poletimber Well	6.4	85	141-170	Stand is mainly black spruce before it transitins into more of a "Q" type on north edge due, Cedar is more prevalent along with red maple before it turns into solid hardwoods. Stand had areas of standing water present. Winter cut or in extremely dry time of year.
25	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	50.1	85	81-110	Stand is a mixed bag of species transitioning more to hardwoods on the northern edges of the west side. Some pockets of standing water in the low areas. Very wet on far east finger of stand, old railroad grade seems to limit movement of water. Stand is very narrow in some places, especially on far west side where in is just wide enough for an intermittent stream to flow through, this is where culvert should be placed to access stands to the south.
26	4115 - Y.Birch, Hemlock NH	Poletimber Medium	78.2	76	81-110	Stand is comprised of mainly hardwoods with some scattered balsam and hemlock that were left after the last cutting. A few larger white pine exists as well. Northern edge of the stand transitions into a Q type. A long finger of the stand runs east then turns to the south while being bordered by lower ground stands. Regeneration in the stand appears to be coming in quite well following the cutting mentioned below. Stand harvested via selection as sale #043-07-01, Comp 50 Western Hardwoods. Complete 07/05/2013.
28	4119 - Mixed Northern Hardwoods	Poletimber Well	1.2	80	111-140	Stand is separated by stand 29 by a drainage swail that is thick with hemlock (look on photo). Very poor access through state, a lot of road work needed. Can be accessed through private, but several easements need to be obtained and last attempts have failed. Old logging activity evident. Hunting activity noted in stand. Cut balsam and leave white pine. If treatments are attempted, it is best to combine with compartment to the south.
29	4115 - Y.Birch, Hemlock NH	Poletimber Well	6.0	81	111-140	More rolling terrain than other stands in comp, more variability. Old roads coming into stand from south and west that are currently being used by atv's to access their deer blinds. Access is fairly lengthy if easement is granted through the Bernice Bishop lands coming off M-123 and then through compartments 80 and 77. Roads do exist and have been used by atv's but need minor improvements for log truck traffic (replacing a few culverts and blading off brush). May be better off waiting until stands in either comp 80 or 77 are harvested. Stand is separated by other stands by drainage's that are thick to hemlock.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	43.9	90	111-140	stand is a thick "Q" type with a high volume of hemlock near hwd edge. Stand is extremely wet in the southern half due to recent beaver activity. Stand is low and wet with thicker edges of hemlock and balsam. Black spruce is spread evenly throughout the stand. Some red maple along edges and on higher ground. Access to this stand would be easiest from the west through private but could be done from the north or south with some road work and culverts. In the SE finger of the stand there is active beaver ponds which is making the southern portion extremely wet and access even harder.
31	429 - Mixed Upland Conifers	Poletimber Medium	58.1	67	81-110	Stand is a mixture of small diameter balsam fir, red maple and black cherry. It is an old field still in the process of converting back to hardwoods. Stand 402 to the east is what the stand is converting from. Fir is fairly thick on SW side next to the beaver dam. Stand is highly variable. White pine is present. Borders beaver dam on the SW side.
32	4112 - Maple, Beech, Cherry Association	Poletimber Medium	16.5	78	51-80	Nicest stand of poles in compartment. Very high Quality. Old road located in southern part of stand. Best access is to come from north through stands 25 (see stand 26 comments), 26 and 402. Road will need to be put in off of old railroad grade and through grassy opening (stand 402) to NW side of stand to avoid large ridge that runs from the NW side of stand down the W edge to the south. Balsam on edges of stand. Stand harvested via selection as sale #043-07-01, Comp 50 Western Hardwoods. Complete 07/05/2013.
33	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	30.2	86	141-170	Stand in wet around "D" type in the center. Several old cedar stumps still exist in stand from past logging. Small amount of balsam in stand. Cedar in stand is large enough to call logs but is of pulp quality. Small drainage's throughout the stand. Best access would be from the south through Stand 12 of adjacent compartment that has been cut already.
35	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	63.1	90	141-170	Stand gets thinner and wetter and you head south towards a large chain of beaver ponds. Old railroad grade access stand from west through stand 26. Edges are more open to a mix of species. Heavier concentration of spruce in the middle of the stand.
36	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	133.3	86	111-140	Several small drainage's throughout stand. A good mixture of mixed hard and softwood types with areas of large diameter hemlock. Seed tree should be considered when prescribing in the future. Northern edge is more hardwoods with a thick concentration of cedar and spruce in the middle. Southern edge borders beaver ponds showing current activity.
37	4115 - Y. Birch, Hemlock NH	Poletimber Well	13.6	75	111-140	Stand is a ridge which connects stands 11 to 40 and 42. Ridge is steep on east side of road which runs through the stand. Should be combined with stand 42 or 36 when harvesting. Has a lot of poor quality timber with wet ground throughout it.
38	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	156.1	88	81-110	Stand is very wet in spots and contains many drainage's throughout. Many areas are heavier to cedar with some patches of hardwoods in the NE and southern portions of the stand where there are hardwood islands that were cut before. Areas of stand were harvested in the 1930's, many stumps still exist as well as old roads.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	4119 - Mixed Northern Hardwoods	Poletimber Medium	20.0	80	81-110	<p>Ridge on north side of stand may pose skidding problems as noted before for future operations. Nice stand of poles and some logs. Access will have to be gained from the compartment to the east off the charcoal grade. Separated from stand 40 by a low drainage area. Regeneration is satisfactory in the stand with majority of it being sugar maple.</p> <p>Stand harvested via selection harvest as sale #041-07-01, Baird Creek Hardwood. Completed 08/14/2012.</p>
40	4119 - Mixed Northern Hardwoods	Poletimber Medium	22.3	80	81-110	<p>Stand has a few low wet areas. Most of them occur on the south side of road where there are some pockets of blown over trees near the beaver pond. Regeneration in the stand is looking good after the last harvest. Some elm found in the stand. Good stand of poles with some decent logs throughout the stand.</p> <p>Stand harvested via selection harvest as sale #041-07-01, Baird Creek Hardwood. Completed 08/14/2012</p>
42	4119 - Mixed Northern Hardwoods	Poletimber Well	35.4	84	111-140	<p>Stand is a ridge of nicely stocked poles, that has a few wetter swails running through it, consider these when considering time of year to harvest. Stay 125' away from Baird Creek if logging operations occur.</p> <p>Stand is fairly wet throughout and could pose a problem for harvest operations. A possible stand to be cut during winter months. Beaver ponds in stand 41 and 43 could impede the size of the harvestable acres.</p>
44	4119 - Mixed Northern Hardwoods	Poletimber Well	38.3	85	81-110	<p>Old white pine stumps still exist in stand. Access is very questionable, old grade from west provides best access, but may be too wet when it crosses stand 35. Small drainage's in lower areas.</p>
45	4119 - Mixed Northern Hardwoods	Poletimber Well	48.5	84	51-80	<p>Old railroad grade runs through stand and could be used for access. There is an old road starting from the charcoal grade running NW until it hits the old railroad grade which also provides excellent access. A few drainage's in stand, as well as a beaver pond and stream to the north. Intermittent stream to the south in cedar stand. Regeneration is coming in good in this stand. Some clumps of thicker balsam as well. North edge of stand is flooded more than older imagery photos show.</p> <p>Stand harvested via selection harvest as sale #041-07-01, Baird Creek Hardwood. Completed 08/14/2012.</p>
46	6118 - Lowland Deciduous with Cedar	Poletimber Well	66.0	87	111-140	<p>Stand contains ridges of hardwoods along stand 43 boundary. It is a fairly wet site and should be considered for a clearcut or shelterwood when cutting. Some areas of mixed hardwoods with conifers. Access from the old railroad grade from the east or an old road off of the Charcoal Grade running NW/SE through the stand. Some larger white pine scattered throughout the stand along with some decent patches of hardwood.</p>
47	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	7.9	61	51-80	<p>Stand is an old homestead site according to previous inventory. Stand is an old grassy opening that is slowly filling in with maple, aspen, fir, birch, alder and a few apple trees. Aspen and balsam are ready to be harvested but the maple is still too small. There are a few apple trees as well in the small opening.</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	4130 - Aspen	Sapling Poor	15.3	7	Immature	Stand is coming in well to aspen, red maple, and balsam fir. Stand harvested as "Baird Creek Aspen", sale #019-06-01. Complete 11/25/09. Summer 2012: Aspen = Fully Stocked
49	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	30.9	110	51-80	This stand was cut in 2015 as part of the Penny Creek Sale(#051-12-01) Access to this stand was through compartment 77 to the south, through stand 12. This stand was cut with a shelterwood prescription. Some large sugar maple, white pine, aspen, and yellow birch were left. Heavy beaver activity to the north of the stand.
51	6120 - Lowland Cedar	Poletimber Well	21.3	66	51-80	Stand is very wet due to current beaver activity. Some red maple on the eastern edge of the stand. Increased beaver activity in stand 50 may allow areas in the stand to begin to flood resulting in some loss of timber.
54	4115 - Y.Birch, Hemlock NH	Poletimber Well	12.3	86	141-170	More rolling terrain than other stands in comp, more variability. Old roads coming into stand from south and west that are currently being used by atv's to access their deer blinds. Access is fairly lengthy if easement is granted through the Bernice Bishop lands coming off M-123 and then through compartments 80 and 77. Roads do exist and have been used by atv's but need minor improvements for log truck traffic (replacing a few culverts and blading off brush). May be better off waiting until stands in either comp 80 or 77 are harvested. Stand is separated by other stands by drainage's that are thick to hemlock.
55	4113 - R.Maple, Conifer	Poletimber Well	33.8	82	111-140	Old railroad grade provides excellent access into stand from the east edge of stand through the grassy opening. Understory is a mix of balsam and red maple saplings. Beech bark scale noticed on few beech in stand, remove beech when harvesting. Intermittent stream to the south and a few drainage's in southern part of stand. Northern hardwoods is the management objective for this stand. Stay 125' away from Baird Creek when setting up the sale. Stand was part of stand 23, which was harvested via selection harvest as sale #045-07-01, Linton Baird Creek Hardwoods. Complete 10/20/10. This stand was left for retention.
56	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.1	84	81-110	Small stand was part of stand 45 to the north and was not included in the harvest last time. Stand has some nice poles and decent sawlogs in it with a few small patches of cedar on the east end of the stand. Few large white pine scattered throughout the stand as well. To the south transitions into a swampy stream with beaver activity and perennial flooding. Hold stand for retention until next cycle. Part of stand 45 to the north, which was harvested via selection harvest as sale #041-07-01, Baird Creek Hardwood. Completed 08/14/2012.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.2	86	111-140	<p>Stand is mainly red maple with some sugar maple. A few large white pine are scattered throughout the stand. Stand has good access from the Charcoal grade and from the stand to the north. Some lower basal area in the stand.</p> <p>Stand could be cut with stand 112 in the compartment to the east and/or stand 3 with the compartment to the south. Recommend holding it until those stands are harvested.</p> <p>Stand was part of stand 45 which was harvested via selection harvest as sale #041-07-01, Baird Creek Hardwood. Completed 08/14/2012. Stand 57 was left for retention purposes.</p>
58	4112 - Maple, Beech, Cherry Association	Poletimber Medium	8.6	64	51-80	<p>.Nice quality trees in the stand. This 8 acres was cut as part of the Linton Baird Creek Hardwoods sale #045-07. Some larger aspen still scattered throughout the stand with some beech. Stay 125' away from Linton Creek. Stand has decent quality pole size red and sugar maple after last cutting. Regeneration coming is looks good.</p>
59	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	4.1	78	1-50	<p>Stand was cut as part of stand 12 in Compartment 77 to the south. Stand contains hellock, white spruce, cedar, red maple, and scattered yellow birch. Some of the red maple is large and old. The stand was suppressed and was no longer productive.</p> <p>Stand at time of inventory was being treated with a seed tree cut as part of Sale Penny Creek Hardwoods(#051-12-01)</p>
60	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	5.6	78	1-50	<p>Stand was cut as part of stand 12 in Compartment 77 to the south. Stand contains hellock, white spruce, cedar, red maple, and scattered yellow birch. Some of the red maple is large and old. The stand was suppressed and was no longer productive. Stand is an island, starting to become tough to access due to beaver activity to the east in stand 50.</p> <p>Stand at time of inventory was being treated with a seed tree cut as part of Sale Penny Creek Hardwoods(#051-12-01)</p>
111	4112 - Maple, Beech, Cherry Association	Poletimber Well	60.8	69	111-140	<p>Stand is mainly red maple with some sugar on the higher ground on the west side of the stand. As you head east stand transitions into a lower ground red maple mixed conifer stand. BBD scale present on few beech in stand. Cut all aspen balsam and beech in stand.</p> <p>White pine and hemlock also present in the stand. Leave all hemlock and white pine over 16 inches.</p> <p>Stand 11 harvested via selection harvest as sale #024-07-01, C. 50 Eastern Hardwoods. Completed 05/17/12. Regeneration check needed in 2016. Stand 111 is the uncut part of stand 11.</p>
117	4112 - Maple, Beech, Cherry Association	Poletimber Well	24.2	82	111-140	<p>Stand is what remains after stand 17 was cut. Nice stand of hardwoods with a mixture of other hardwoods species present. Edges have a higher concentration of balsam fir and light spruce. Remove all beech and balsam when thinning stand.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
4	6229 - Mixed lowland shrub	29.9	Yes	Post and current beaver activity noted in and adjacent to stand. Areas of standing dead timber from beaver activity. Some flooded areas extend into adjacent stands.
27	6225 - Bog	3.9	Yes	Lab tea heaviest towards edges. Some leatherleaf throughout the stand with the center having more standing small spruce and tamarack trees. Old railroad grade runs along south edge of stand.
34	6224 - Treed Bog	1.8	Yes	Treed bog with some old cedar stumps throughout stand. Thicker black spruce around the edges.
41	500 - Water	10.6	Yes	Low areas with some trees surrounded by standing water. Some signs of beaver activity in the stand.
43	6229 - Mixed lowland shrub	42.7	Yes	Low wet drainage running east through compartment. Stand has some timber in the higher areas on the west end but is still considerably wet throughout the whole stand. Some signs of beaver activity in multiple spots throughout the stand.
50	6229 - Mixed lowland shrub	30.3	Yes	Heavy beaver activity. Stand has continued to grow to the west looking back at past imagery.. Some standing timber, non was measured due to deep standing water. Slowly moving into the compartment to the south,
53	6229 - Mixed lowland shrub	3.4	Yes	Stand contains a deep beaver pond between two steep ridges.
401	3205 - Mixed Upland Shrub	34.3	Yes	Stand is mainly an open field beginning to convert to a cherry stand. Some spruce and balsam fir around the edges and a few scattered low quality white pine. Site of several old railroad sidings. Some railroad ties still present. Cherry seems to be seeding in more than the other species. Section corner (iron pipe and cap) in middle of stand 10 feet south of forest road.
402	330 - Low-Density Trees	17.0	Yes	Still evidence of old railroad grade that runs through the stand. Some rolling terrain in the stand, which is converting back to a forested stand mainly consisting of white pine, balsam fir, some scattered white spruce, and scattered aspen.