



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 99

Entry Year 2015

Acreage: 3,011

County Midland

Management Area: Midland-Isabella

Revision Date: 11/30/2012

Stand Examiner: Steven Nyhoff

Legal Description:

T16N R1W Sections 28 thru 33

Identified Planning Goals:

The compartment has extensive wetlands interspersed with areas of swamp hardwoods, upland oak and aspen. There are also three creeks that flow through the compartment, Bluff Creek in the west, Mud Creek through the center, and Black Creek in the east. These creeks connect up with the majority of the wetlands in the area.

The upland acres have been heavily harvested over the past 40 years. The regeneration has been mixed, especially over the last 20 years. Some of the harvests have failed to regenerate. Most of these have been prescribed to be planted or interplanted with red pine. Red pine was chosen because white pine in the area gets heavily weeviled and jack pine is heavily galled.

Most of the harvests, that have been scheduled, are selection in swamp hardwood. Some of the aspen stands are scheduled for clearcuts. The harvests are concentrated in the aspen that is forty years old. This is in keeping with the draft Midland Isabella Management Area Plan.

Soil and topography:

The terrain is generally flat with areas of extensive micro relief. There are some areas of steep slopes. These are located along the flood plains of the three creeks.

The main soil associations are Covert, under the dry upland stands; Pipestone, under the intermediate stand; and Kingsville, under the wetter forest types. Kinross Association is located under the numerous bogs. Cohoctah and Belleville Associations are under the flood plains of the different creeks and drainages.

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

The compartment is situated in an area of State Land that goes from the county line to US-10. It is contiguous with minimal inclusions of private land. The land along the east and west lines are a mixture of permanent residence, farms, and recreational properties.

The compartment is heavily used for hunting, wild food gathering, and recreation.

Unique Natural Features:

There are no records of threatened or endangered species in the compartment. In addition, none were located during the inventory process. There are records of wood turtles outside the compartment, slippershell mussels to the southwest and northern goshawks to the southeast.

Archeological, Historical, and Cultural Features:

There are no records of occurrences within the compartment. In addition, none were located during the inventory process.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Three creeks flow through the compartment, Bluff Creek, Mud Creek, and Black Creek. These are all warm water fisheries. Therefore, there are no special requirements for protection beside standard BMP protocols.

Wildlife Habitat Considerations:

Compartment #99 contains a variety of habitat types suitable for many wildlife species. The compartment includes Mud Creek and Bluff Creek drainages and adjacent lowland complexes. These lowlands support various waterfowl, reptiles, amphibians, and their predators including beaver, mink, muskrat, black bear, bobcat, and coyote use the lowlands as corridors as well as year-round habitat. Many bird species stand to benefit from juxtaposition of lowland and upland habitats present in the compartment. These include common yellowthroat, yellow-rumped warbler, gray catbird, redbeyed vireo, white-throated sparrow, hermit thrush, red-breasted nuthatch, ruffed grouse, and American woodcock. The compartment is easily accessible to hunters via M-18 or Burns Road.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw Formation is used for clay/shale in other areas of the State. This area is predominantly sand and gravel potential in the compartment is considered limited. Edenville Field is located in Section 27. It produced 1,394,120 BO the Dundee Limestone and has been abandoned. The Compartment is leased for oil and gas development.

Vehicle Access:

The access is mainly from 4 roads of which 3 are maintained by the DNR. The north western and central portions of the compartment are accessed off the end of Baker Road. The access to the southern half is off Burns Road. The eastern quarter is accessed off the "45 degree" road that comes off of Sanford Lake Road just north of Burns Road. Only a small portion of the south west is accessed off of M-18. The access to the compartment and treatments is often hindered by seasonal wetness.

Survey Needs:

The records of survey corners are sketchy in section 30 and the northern portion of section 31. This area could use a survey but it is not of high priority at the current time. There are no suspected trespasses and there are no treatments scheduled this Year of Entry along the private land.

Recreational Facilities and Opportunities:

There are no designated trails in this compartment, however, mountain biking is a popular activity in this area. Hunting and berry picking are also common recreational activities in the compartment. (TMN 5/6). Currently there is some work being done to establish a recognized mountain bike trail. When one is approved the treatment may be modified to protect the trail as needed.

Fire Protection:

The fire danger in the compartment is low to moderate. The access is good to much of the compartment. In addition the cover types present are not excessively volatile. The compartment also has numerous natural fuel breaks because of the wetlands and creeks.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

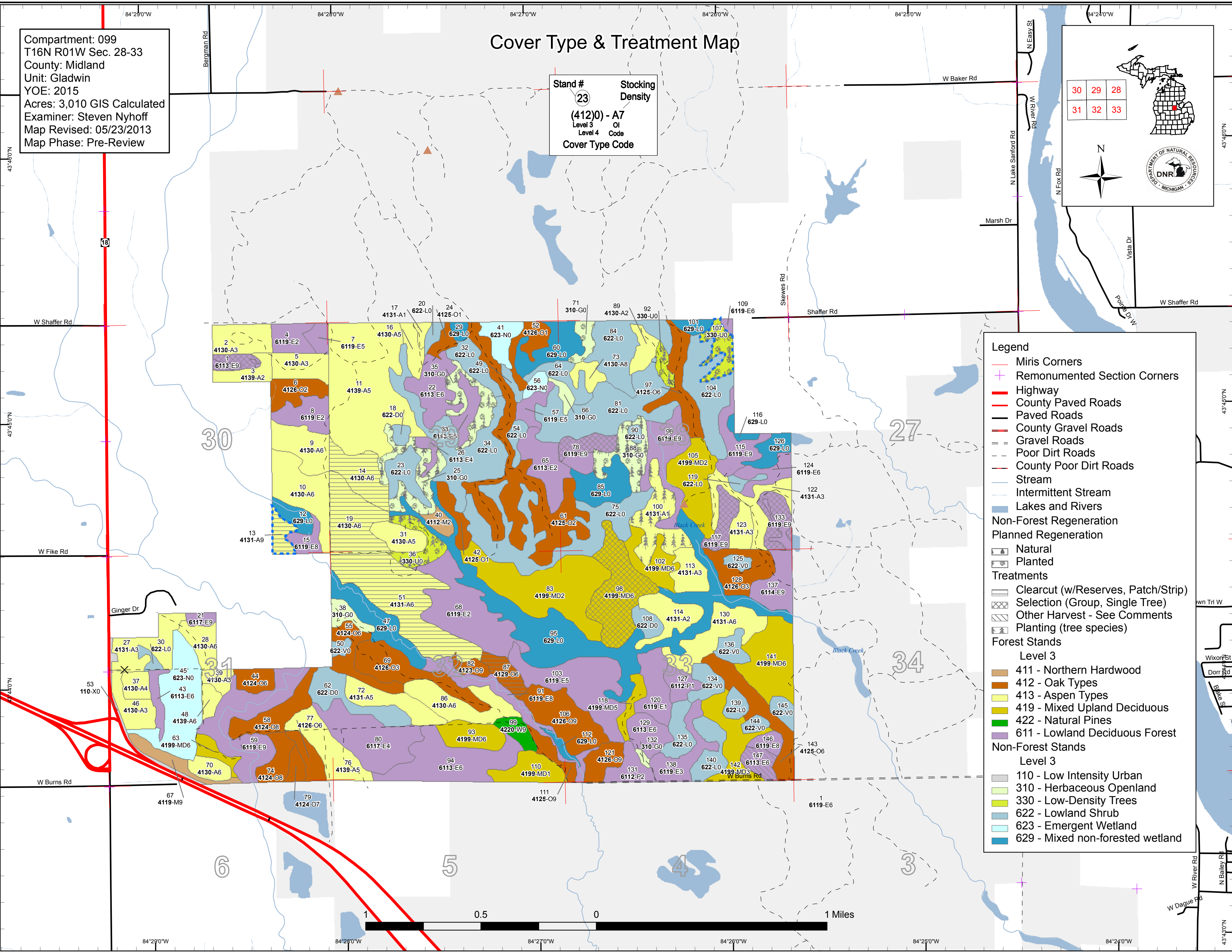
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatment Map

Compartment: 099
 T16N R01W Sec. 28-33
 County: Midland
 Unit: Gladwin
 YOE: 2015
 Acres: 3,010 GIS Calculated
 Examiner: Steven Nyhoff
 Map Revised: 05/23/2013
 Map Phase: Pre-Review

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



Legend

- Miris Corners
- Remonumented Section Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- Non-Forest Regeneration
- Planned Regeneration
- Natural
- Planted
- Treatments
- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)
- Other Harvest - See Comments
- Planting (tree species)
- Forest Stands
- Level 3
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- Non-Forest Stands
- Level 3
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland

Stand Boundary Map

Compartment: 099
T16N R01W Sec. 28-33
County: Midland
Unit: Gladwin
YOE: 2015
Acres: 3,010 GIS Calculated
Examiner: Steven Nyhoff
Map Revised: 05/23/2013
Map Phase: Pre-Review

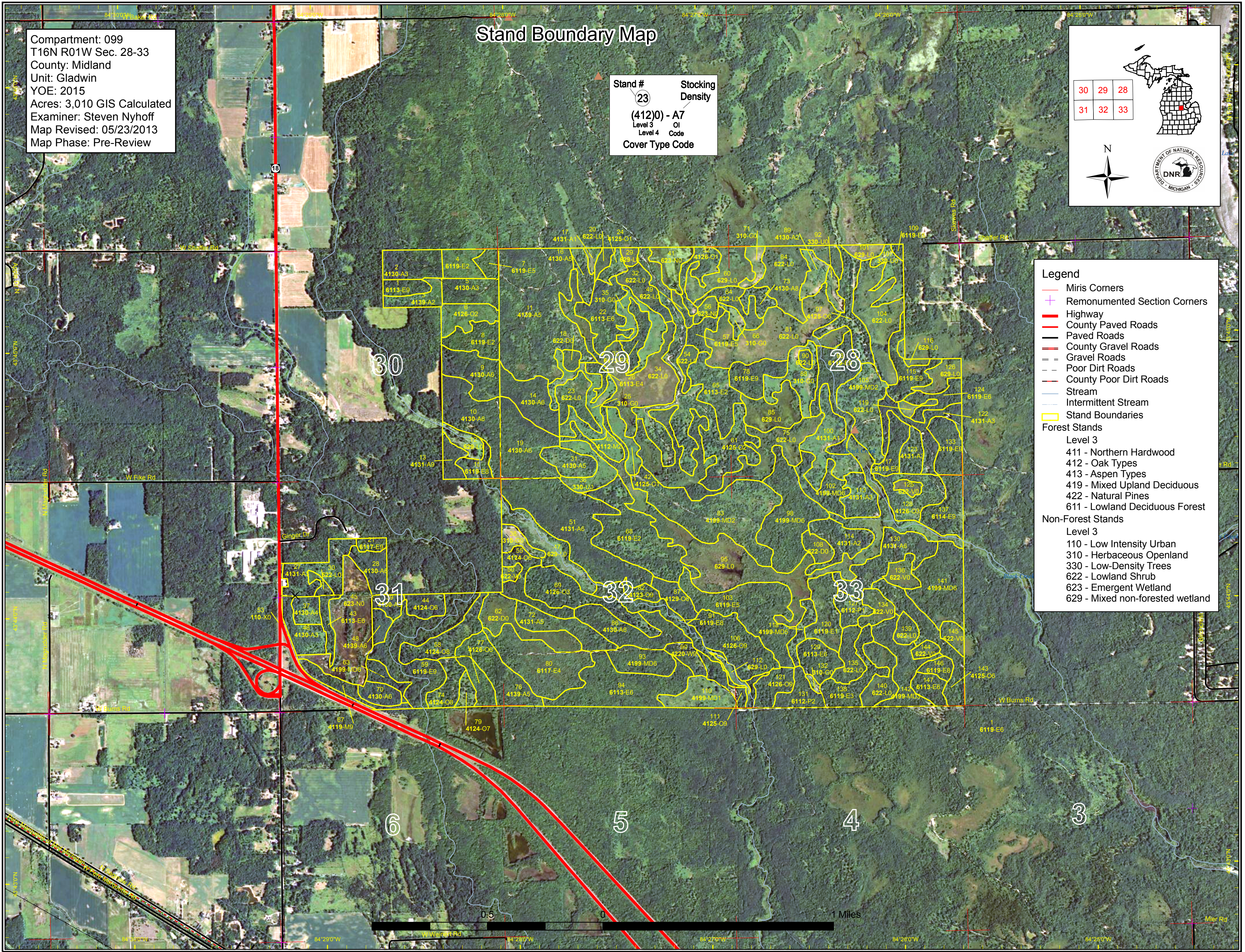
Stand # **23**
(412)0 - A7
Level 3 OI
Level 4 Code
Cover Type Code

30 29 28
31 32 33

N

DEPARTMENT OF NATURAL RESOURCES
DNR
MICHIGAN

- ### Legend
- Miris Corners
 - Remonumented Section Corners
 - Highway
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Stream
 - Intermittent Stream
 - Stand Boundaries
- ### Forest Stands
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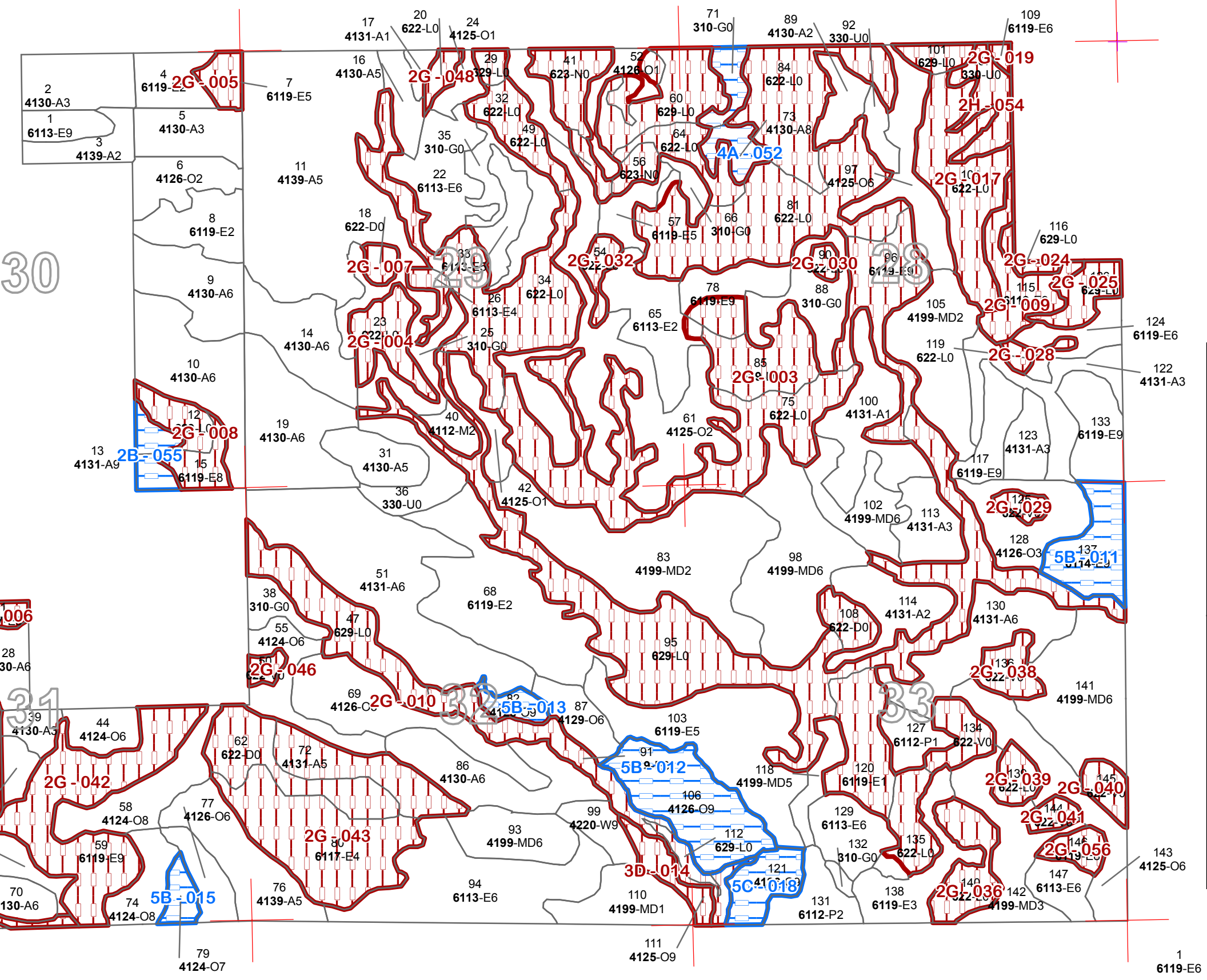
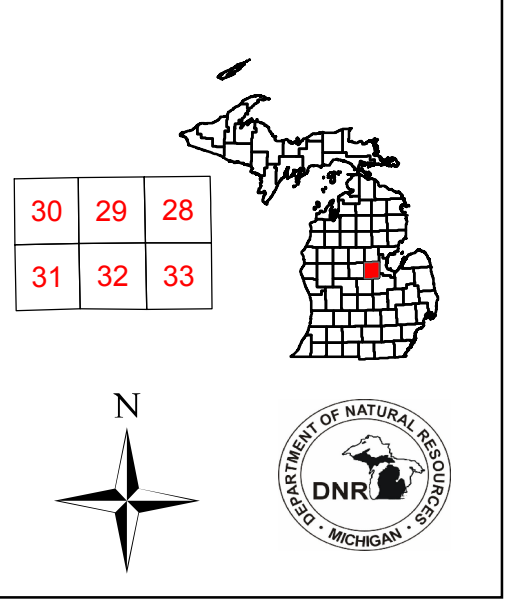


0.5 0 1 Miles

Compartment: 099
 T16N R01W Sec. 28-33
 County: Midland
 Unit: Gladwin
 YOE: 2015
 Acres: 3,010 GIS Calculated
 Examiner: Steven Nyhoff
 Map Revised: 05/23/2013
 Map Phase: Pre-Review

Special Conservation Areas & Site Conditions Map

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



Legend

- + Remonumented Section Corners
- Miris Corners
- Stand Boundaries

Site Condition Available

- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)

Site Condition Type

Available Factors W/ Constraints

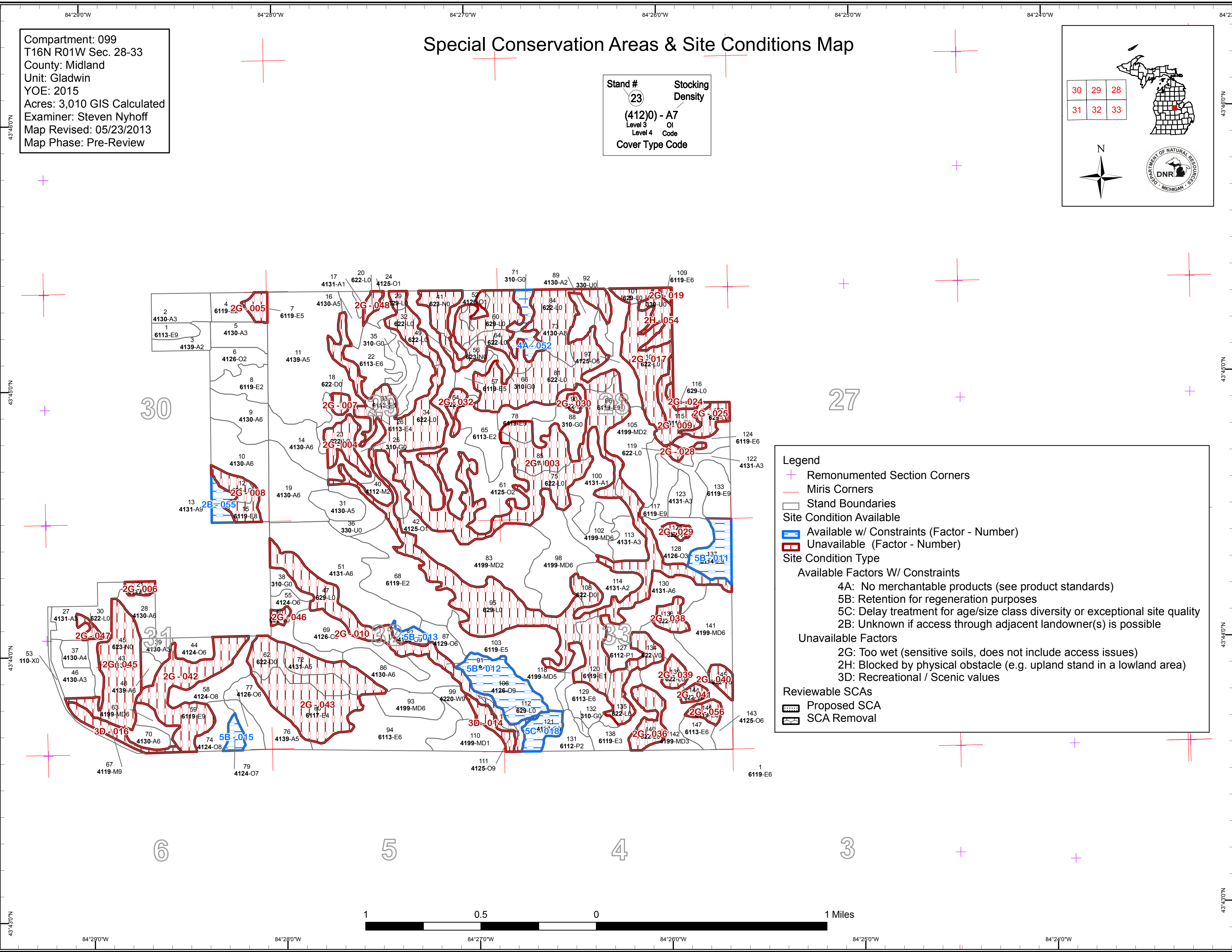
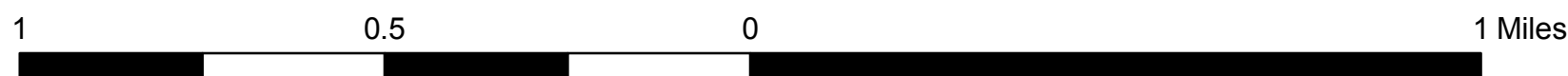
- 4A: No merchantable products (see product standards)
- 5B: Retention for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2B: Unknown if access through adjacent landowner(s) is possible

Unavailable Factors

- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values

Reviewable SCAs

- Proposed SCA
- SCA Removal



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	3	117	239	269	78	0	0	0	17	0	0	0	0	0	722
Bog	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Herbaceous Openland	87	0	0	0	0	0	0	0	0	0	0	0	0	0	87
Low-Density Trees	35	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Lowland Aspen/Balsam Poplar	0	0	23	0	0	0	0	0	0	0	0	0	0	0	23
Lowland Deciduous	0	39	27	97	58	36	55	5	74	26	0	0	0	230	647
Lowland Shrub	608	0	0	0	0	0	0	0	0	0	0	0	0	0	608
Marsh	72	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Mixed Upland Deciduous	19	35	144	0	19	16	0	0	69	0	0	0	0	0	302
Northern Hardwood	0	6	0	0	0	0	0	0	0	0	0	0	0	12	18
Oak	0	84	140	31	29	0	0	48	60	12	0	0	0	0	405
Treed Bog	37	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Total	906	281	573	397	184	53	63	53	220	38	0	0	0	242	3010



Report 2 – Proposed Treatment Summaries

Gladwin Mgt. Unit
Year of Entry 2015

Compartment 099
Total Compartment Acres: 3,010

Acres by Treatment Type

Commercial Harvest - 261 Tree Planting - 130 Other - 0
 Habitat Cut - 9 Opening Maintenance - 0

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
(Habitat Cut)Aspen Types	9	0	0	0	0	0	9
Aspen Types	143	0	0	0	0	0	143
Lowland Deciduous Forest	0	45	0	0	0	10	56
Mixed Upland Deciduous	0	50	0	0	0	0	50
Oak Types	12	0	0	0	0	0	12
Total	164	96	0	0	0	10	269



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	73099001-Cut	6.3	6113 - Lowland Maple	High Density Log	84	81-110	Harvest	Group Selection	6113 - Lowland Maple	Cmpt. Review Proposal
<u>Prescription</u> The stand is to be harvested as a species removal of ash and a selection of other species. The residual BA should be kept around 80 to avoid <u>Specs:</u> wind throw.										
<u>Other</u> There are portions of the stand that are too wet to harvest. These are mainly in the western portion of the stand. <u>Comments:</u>										
<u>Next</u> The stand is expected to regenerate natural to a mixed swamp hardwoods. <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
14	73099014-Cut	25.8	4130 - Aspen	High Density Pole	36	51-80	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> The stand is to be clearcut with retention pocket not to exceed 5% of the stand's area. <u>Specs:</u>										
<u>Other</u> This stand is to be harvested to move the compartment toward regulation under a 40 year rotation. This shorter rotation is proposed for the <u>Comments:</u> Midland Isavella MA										
<u>Next</u> The stand is expected to regenerate naturally to aspen with some maple and oak. <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
19	73099019-Cut	39.2	4130 - Aspen	High Density Pole	36	1-50	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut the stand having pocket of retention. The pockets should not exceed 5% of the stand's area. <u>Specs:</u>										
<u>Other</u> The stand is scheduled to be harvest to move the compartment closer to aspen regulation on a 40 year cycle as put fort in the draft management <u>Comments:</u> plane for the Midland Isabella MU.										
<u>Next</u> The stand is expected to regenerate natural to aspen with some scattered maple and oak. <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
51	73099051-Cut	78.2	4131 - Aspen, Oak	High Density Pole	41	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> The stand is to be clearcut with reserves. The retention should be around 10 BA of oak. The harvest should be taken to the top of the bank <u>Specs:</u> overlooking the flood plain of Mud Creek										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> The stand is expected to regenerate to aspen mixed with some oak and maple. <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
78	73099078-Cut	11.6	6119 - Mixed Lowland Deciduous Forest	High Density Log	93	81-110	Harvest	Single Tree Selection	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Harvest the stand by selection taking the BA down to 80. When marking favor the removal of ash.

Specs:

Other There is a creek flowing through it and some portions of the stand are too wet to harvest. The stand is wet especially in the south west end.

Comments: Most years this area will probably too wet to harvest a chance that these areas could be done during drought or frozen conditions. Because of this there may be a significant reduction in acres harvested.

Next The stand is expected to regenerate to a mixture of swamp hardwoods

Steps:

Proposed

Start Date: 10/01/2014

87	73099087-Cut	11.8	4129 - Mixed Oak	High Density Pole	71	51-80	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
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Prescription Harvest the stand as a final harvest retaining 10 BA of oak. Make sure all poorly form maple are removed.

Specs:

Other The stand was damage by past harvest activity around 40 years ago. Some of the maple has been pushed down and are now growing in less the ideal shape.

Next The stand is expected to regenerate to a mixture of oak, aspen and maple.

Steps:

Proposed

Start Date: 10/01/2014

98	73099098-Cut	50.2	4199 - Other Mixed Upland Deciduous	High Density Pole	82	51-80	Harvest	Single Tree Selection	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
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Prescription The stand could be harvested as a clearcut, or as a selection retaining 70 BA. The retention in the stand should favor oak and the removal of ash.

Specs:

Other There are areas that are fairly wet so rutting could be a problem in the stand when it is harvested.

Comments:

Next The stand is expected to regenerate to a mixture of swamp hardwood.

Steps:

Proposed

Start Date: 10/01/2014

117	73099117-Cut	13.2	6119 - Mixed Lowland Deciduous Forest	High Density Log	82	81-110	Harvest	Single Tree Selection	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
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Prescription The stand is to be harvested by selection retaining 80 BA. The retention should favor oak and maple; and aspen and ash should be favored for removal.

Specs:

Other Some areas of the stand are wet and may need to be painted out to avoid rutting issues.

Comments:

Next The stand is expected to regenerate naturally.

Steps:

Proposed

Start Date: 10/01/2014



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
133	73099133-Cut	14.3	6119 - Mixed Lowland Deciduous Forest	High Density Log	85	81-110	Harvest	Single Tree Selection	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
<u>Prescription</u> The stand is to be harvested as a selection retaining 70 sq ft. The retention should favor oak and maple of good form. The drainages may be too wet to harvest and may need to be painted out. This may cause a significant reduction of harvestable acres. <u>Specs:</u>										
<u>Other</u> Areas of the stand are wet and provision made to avoid rutting problems. <u>Comments:</u>										
<u>Next</u> The stand is expected to regenerate naturally to a mixture of swamp hardwoods. <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
147	73099147-Cut	10.1	6113 - Lowland Maple	High Density Pole	87	81-110	Harvest	Other - Specify in Comments	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
<u>Prescription</u> Harvest the stand by having a salvage cut of the ash, during dry/frozen conditions. <u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
100	73099100- Plant	30.4	4131 - Aspen, Oak	Low Density Sapling	13		Tree Planting	Hand Plant	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal
<u>Prescription</u> The stand is a failed aspen final harvest. The site is difficult to access do to seasonal wetness on access roads. The stand will need to be planted with red pine in the fall if accessible <u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> two years after planting check for regeneration success. <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 08/01/2014										
25	NF_73099025- Plant	24.4	3105 - Mixed Upland Herbaceous				Tree Planting	Hand Plant	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> This is a failed aspen harvest. The site is difficult to access do to seasonal wetness on access roads. The stand will need to be planted with red pine in the fall if accessible <u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 08/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
35	NF_73099035- Plant	18.6	3105 - Mixed Upland Herbaceous				Tree Planting	Hand Plant	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> This is a failed aspen harvest. The site is difficult to access do to seasonal wetness on access roads. The stand will need to be planted with red <u>Specs:</u> pine in the fall if accessible <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 08/01/2014										
36	NF_73099036- Plant	15.4	3301 - Low Density Deciduous Trees				Tree Planting	Hand Plant	42211 - Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> This is a failed aspen harvest. The site is difficult to access do to seasonal wetness on access roads. The stand will need to be inter-planted with <u>Specs:</u> red pine in the fall if accessible <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 08/01/2014										
88	NF_73099088- Plant	22.1	3103 - Rubus-Fern				Tree Planting	Hand Plant	42211 - Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> This is a failed aspen harvest. The site is difficult to access do to seasonal wetness on access roads. The stand will need to be planted with red <u>Specs:</u> pine in the fall if accessible <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 08/01/2014										
92	NF_73099092- Plant	5.9	3301 - Low Density Deciduous Trees				Tree Planting	Hand Plant	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> This is a failed aspen harvest. The site is difficult to access do to seasonal wetness on access roads. The stand will need to be planted with red <u>Specs:</u> pine in the fall if accessible <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 08/01/2014										

**Total Treatment
Acreage Proposed: 377.5**



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13 73099013-Cut	8.7	4131 - Aspen, Oak	High Density Log	82	111-140	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal

Prescription The stand should be harvested as a clearcut with reserves. The retention should be 10 BA of oak.

Specs:

Other Comment: The stand is landlocked by Mud Creek and private land. Access to the stand will be difficult. If access cannot be gained the stand should be habitat cut.

Next Steps: The stand is expected to regenerate to a mixture of aspen, oak and maple.

Proposed Start Date: 10/01/2014

Limiting Factor 2B: Unknown if access through adjacent landowner(s) is possible

107 NF_73099107-Plant	13.6	3301 - Low Density Deciduous Trees				Tree Planting	Hand Plant	42211 - Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription This is a failed aspen harvest. The site is difficult to access do to seasonal wetness on access roads. The stand will need to be planted with red pine in the fall if accessible

Other Comment:

Next Steps:

Proposed Start Date: 08/01/2014

Limiting Factor 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

Total Treatment Acreage Proposed: 22.4

Report 5 – Site Conditions

Gladwin Mgt. Unit
Steven Nyhoff : Examiner

Compartment 099
Year of Entry 2015

Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5C	5B	4A	3D	2G	2B
	Available	Not Available								
722	699	22	Aspen	683			8		22	9
23	23		Lowland Aspen/Balsam Poplar	23						
647	408	239	Lowland Deciduous	387		21			239	
302	302		Mixed Upland Deciduous	302						
18	6	12	Northern Hardwood	6				12		
405	391	14	Oak	328	13	49		9	5	
9	9		White Pine	9						
2,126	1,839	287	Total Forested Acres	1,739	13	70	8	21	266	9
	86%	14%	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
003	Not Available	2G: Too wet (sensitive soils, does not include access issues)	550				
Comments:							
004	Not Available	2G: Too wet (sensitive soils, does not include access issues)	16				
Comments:							
005	Not Available	2G: Too wet (sensitive soils, does not include access issues)	7				
Comments:							

Report 5 – Site Conditions

Gladwin Mgt. Unit
Steven Nyhoff : Examiner

Compartment 099
Year of Entry 2015

006	Not Available	2G: Too wet (sensitive soils, does not include access issues)	5	2F: Too steep	3J: Water quality / BMPs (stream, river, or lake)
Comments:					
007	Not Available	2G: Too wet (sensitive soils, does not include access issues)	4		
Comments:					
008	Not Available	2G: Too wet (sensitive soils, does not include access issues)	18	3J: Water quality / BMPs (stream, river, or lake)	
Comments:					
009	Not Available	2G: Too wet (sensitive soils, does not include access issues)	19		
Comments:					
010	Not Available	2G: Too wet (sensitive soils, does not include access issues)	56	3J: Water quality / BMPs (stream, river, or lake)	2F: Too steep
Comments:					
011	Available	5B: Retention for regeneration purposes	21		
Comments:					

Report 5 – Site Conditions

Gladwin Mgt. Unit
Steven Nyhoff : Examiner

Compartment 099
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012 Available 5B: Retention for regeneration purposes 38

Comments:

013 Available 5B: Retention for regeneration purposes 6

Comments:

014 Not Available 3D: Recreational / Scenic values 9

Comments:

015 Available 5B: Retention for regeneration purposes 6

Comments:

016 Not Available 3D: Recreational / Scenic values 12

Comments:

017 Not Available 2G: Too wet (sensitive soils, does not include access issues) 45

Comments:

Report 5 – Site Conditions

Gladwin Mgt. Unit
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Compartment 099
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018	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	
Comments:				
019	Not Available	2G: Too wet (sensitive soils, does not include access issues)	2	
Comments:				
024	Not Available	2G: Too wet (sensitive soils, does not include access issues)	3	
Comments:				
025	Not Available	2G: Too wet (sensitive soils, does not include access issues)	11	
Comments:				
028	Not Available	2G: Too wet (sensitive soils, does not include access issues)	4	
Comments:				
029	Not Available	2G: Too wet (sensitive soils, does not include access issues)	4	
Comments:				

Report 5 – Site Conditions

Gladwin Mgt. Unit
Steven Nyhoff : Examiner

Compartment 099
Year of Entry 2015

030	Not Available	2G: Too wet (sensitive soils, does not include access issues)	3
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Comments:

032	Not Available	2G: Too wet (sensitive soils, does not include access issues)	6
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Comments:

036	Not Available	2G: Too wet (sensitive soils, does not include access issues)	17
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Comments:

038	Not Available	2G: Too wet (sensitive soils, does not include access issues)	9
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Comments:

039	Not Available	2G: Too wet (sensitive soils, does not include access issues)	7
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Comments:

040	Not Available	2G: Too wet (sensitive soils, does not include access issues)	7
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Comments:

Report 5 – Site Conditions

Gladwin Mgt. Unit
Steven Nyhoff : Examiner

Compartment 099
Year of Entry 2015

041	Not Available	2G: Too wet (sensitive soils, does not include access issues)	4		
Comments:					
042	Not Available	2G: Too wet (sensitive soils, does not include access issues)	56	3J: Water quality / BMPs (stream, river, or lake)	2F: Too steep
Comments:					
043	Not Available	2G: Too wet (sensitive soils, does not include access issues)	95		
Comments:					
045	Not Available	2G: Too wet (sensitive soils, does not include access issues)	53		
Comments:					
046	Not Available	2G: Too wet (sensitive soils, does not include access issues)	3		
Comments:					
047	Not Available	2G: Too wet (sensitive soils, does not include access issues)	4		
Comments:					

Report 5 – Site Conditions

Gladwin Mgt. Unit
Steven Nyhoff : Examiner

Compartment 099
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048	Not Available	2G: Too wet (sensitive soils, does not include access issues)	4	
Comments:				
052	Available	4A: No merchantable products (see product standards)	15	
Comments:				
054	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	2B: Unknown if access through adjacent landowner(s) is possible
Comments:				
055	Available	2B: Unknown if access through adjacent landowner(s) is possible	9	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
Comments:				
056	Not Available	2G: Too wet (sensitive soils, does not include access issues)	7	
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
Comments				



Report 7 – 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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6113 - Lowland Maple	High Density Log	8.6	84	81-110	The stand is a matrix of uplands and lowlands. The lowlands make up about 75% of the stand. The east end is heavy to red maple regeneration. However the west end lacks good regeneration. There are portion in the west end that are too wet to harvest.
2	4130 - Aspen	High Density Sapling	20.9	24	1-50	The stand is a matrix of uplands and lowlands. The uplands are the majority. The stand has areas of green ash over marsh grass along the private land. This is only a small portion of the stand.
3	4139 - Aspen, Mixed Deciduous	Medium Density	11.4	13		The stand is a matrix of uplands and lowlands. The uplands make up about 75%. There are areas of lowland shrubs present.
4	6119 - Mixed Lowland Deciduous Forest	Medium Density	13.3	13	1-50	The stand is a matrix of uplands and lowlands with the lowlands being about 65%. The terrain is hummocky.
5	4130 - Aspen	High Density Sapling	17.8	24	1-50	The stand is a matrix of uplands and lowlands with the uplands being about 75%.
6	4126 - White, Black, N. Pin Oak	Medium Density	15.8	13		The stand is a matrix of uplands and lowlands with the uplands being about 65%. There are inclusions of lowland shrubs and areas of open herbaceous.
7	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	6.6	84	51-80	The stand is a matrix of uplands and lowlands with the uplands being about 30%. western side very wet, eastern side dry.
8	6119 - Mixed Lowland Deciduous Forest	Medium Density	18.0	24	1-50	The stand is a matrix of uplands and lowlands with the lowlands being about 60%. There are inclusions of leather leaf and tag alder
9	4130 - Aspen	High Density Pole	24.7	24	1-50	The stand is a matrix of uplands and lowlands with the uplands being about 75%. In the stand there are pockets of open herbaceous in the west end and areas of open lowland shrubs in the east end.
10	4130 - Aspen	High Density Pole	35.9	24	1-50	The stand is mainly uplands with a few inclusions of lowland in pockets.
11	4139 - Aspen, Mixed Deciduous	Medium Density Pole	110.5	36	1-50	The stand is a matrix of uplands and lowlands with the uplands being about 55%. The stand is just coming into poles. Beavers have impacted the stand along stand 33. In this area the stand is of sparse oak. The terrain is undulating with the uplands being quite dry and the lowlands quite wet. Upland areas have pockets of open herbaceous and the lowland areas have pockets of lowland shrubs.
13	4131 - Aspen, Oak	High Density Log	8.7	82	111-140	The stand is not accessible. It is land locked by private land and Mud Creek. The Aspen is over mature and it is starting to decline.
14	4130 - Aspen	High Density Pole	25.8	36	51-80	The stand is a matrix of uplands and lowlands with the uplands being about 60%. There are some pockets of lowland shrubs present.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	8.6	82	1-50	The stand is on the flood plain of Mud Creek. Hemlock and white pine are on the slopes going out of the flood plain. Oaks are on the upland knobs and along the oxbows.
16	4130 - Aspen	Medium Density Pole	9.5	36	1-50	The density in the stand is variable. It has inclusions of lowland shrubs along the eastern edge.
17	4131 - Aspen, Oak	Low Density Sapling	3.1	2		The stand was harvested with a stand to the north in compartment 97. The regeneration looks to be about a year old. The crown closure is just 25%. This stand could also be classified as a low density deciduous tree stand.
19	4130 - Aspen	High Density Pole	39.2	36	1-50	The terrain is hummocky. The oak understory is heaviest in the south end. It appears that the oak was left when the stand was harvested as well as aspen less than 4" DBH
21	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	4.6	Uneven Age	81-110	(ages 120 hemlock, 86 paper birch, 94 green ash) The stand is in a depression with numerous springs. The lowest areas are very wet, even after a summer of drought. Hemlock is common, but it is over topped by other species. It is located on the slopes and on the higher portions of the stand. The ash is in the lowest areas.
22	6113 - Lowland Maple	High Density Pole	26.8	36	51-80	The stand is a matrix of uplands and lowlands with the lowlands being about 75%. There is an aspen ridge running through a portion of the stand. The terrain is hummocky. The stand has inclusions of lowland shrubs. EAB is present in the ash but it is currently at a low density. Hypoxylon canker is present in the aspen but it is in isolated pockets.
24	4125 - Black, N. Pin Oak	Low Density Sapling	5.7	36	1-50	The stand is sparse and has an inclusion of lowland shrubs in the southwest corner. South end of the stand has a crown closure of less than 25%. However, the north end has a crown closure greater than 75%. The average crown closure is 40%
26	6113 - Lowland Maple	Low Density Pole	4.7	77	1-50	The stand is in a drainage, so it is low and wet. There is a ridge along the north edge of the stand.
27	4131 - Aspen, Oak	High Density Sapling	26.0	10	1-50	(pine ages 53/20/32/50) The stand was harvested and has regenerated well overall. The northern leg, near the private land, is heavy to oaks. The mature pines that were left are in pockets scattered in the stand.
28	4130 - Aspen	High Density Pole	13.9	27	51-80	The stand has a heavy understory of red maple that is the same age as the aspen. The stand is very dense so it has very little ground cover.
31	4130 - Aspen	Medium Density Pole	14.5	26	1-50	The aspen, in the stand, is mainly quaking aspen. It has a high percentage of black nodes giving it a poor form. The oak, in the stand, was left at the time of the harvest. Some of the oak is now seeding in but it is not much.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	6113 - Lowland Maple	Medium Density Pole	11.4	Uneven Age	51-80	The density in the stand decreases from north to south. The species change from heavy red maple to heavy swamp white oak. This is also from north to south.
37	4130 - Aspen	Low Density Pole	8.9	28	1-50	The trees are patchy. There is a large opening in the central portion of the stand.
39	4130 - Aspen	High Density Sapling	7.0	16	1-50	The stand was harvested retaining some of the over story oak and trees that are less than or equal to 4" DBH. Regeneration over all is good.
40	4112 - Maple, Beech, Cherry Association	Medium Density	6.1	13		This is the portion of a harvested stand that did regenerate to a degree. However, the regeneration is still patchy.
42	4125 - Black, N. Pin Oak	Low Density Sapling	10.5	13		The stand has some oak regeneration that is sparse and in patches. There are large areas of open ground. The north end of the stand is very sparse because of deer browse. The trees that survived are now getting above the browse line.
43	6113 - Lowland Maple	High Density Pole	7.4	52	81-110	(ages taken 46/51) The stand is a matrix of uplands and lowlands. It is about a 50/50 mix. The stand has more characteristics of lowlands. There is a drainage going through it. This area has seen beaver activity in the past. The stand is mature but there are pockets of advanced regeneration. Most of it is red maple
44	4124 - Red with White Oak	High Density Pole	10.6	48	51-80	(ages 25 ash; 42/43 oak) The smaller diameter trees shows signs of release after the aspen and maple were harvested. The stand is now an oak stand. The co-dominant trees are around 42 years old. There are numerous oversized oaks that are significantly older. The oaks are mainly red oaks with some white oaks present. The high density aspen areas now have good aspen regeneration.
46	4130 - Aspen	High Density Sapling	16.2	16	1-50	This stand took some time to come in. It is now a fully stocked stand. The only areas that are sparse now are along pre-inventory stand 41. These sparse areas look to be the result of beaver activity. Invasive species Scotts pine and autumn olive are along the old skid trail. This is most visible toward the northern end of the trail.
48	4139 - Aspen, Mixed Deciduous	High Density Pole	6.3	27	81-110	The stand has a heavy understory of red maple that is the same age as the aspen. The stand is very dense so it has very little ground cover.
51	4131 - Aspen, Oak	High Density Pole	78.2	41	81-110	When the stand was harvested, large oaks were left for residual. The terrain is hummocky. Currently the stand has some good pole oak as well as oaks with large crowns.
52	4126 - White, Black, N. Pin Oak	Low Density Sapling	13.7	24	1-50	The stand was harvested and the regeneration is mixed. It looks like beaver activity removed most of the tree species besides oak



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	4124 - Red with White Oak	High Density Pole	18.6	43	51-80	The terrain is hummocky. There appears to be some pockets of lowlands but overall the stand is quite dry. There are some oversized oak present but they are widely scattered.
57	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	8.9	24	1-50	The stand is a matrix of uplands and lowlands with the lowlands being about 70%. The terrain is hummocky. The stand has several drainages flowing through it connecting the lowlands.
58	4124 - Red with White Oak	Medium Density Log	23.2	73	51-80	The stand was harvested as a shelterwood in 2009. The regeneration is coming in well. It is mainly aspen, mixed with some maple and oak. Beaver have been hitting the north end of the stand fairly heavily.
59	6119 - Mixed Lowland Deciduous Forest	High Density Log	55.9	Uneven Age	81-110	The stand is the flood plain of Bluff Creek and the associated slopes coming out of the flood plain. There are a significant number of den trees present on the flood plain. There are also a number of spring coming from the hills side over the flood plain. The terrain is hummocky.
61	4125 - Black, N. Pin Oak	Medium Density	86.8	24	1-50	The stand is on a series of ridges wandering through a lowland shrub type. The northern leg has a stocking level of medium to well stocked. The southern legs are medium to poorly stocked.
63	4199 - Other Mixed Upland Deciduous	High Density Pole	8.0	50	1-50	The stand is a mixture of oak and aspen. When the stand was harvested some of the pole size oaks were retained. White pine is now seeding in.
65	6113 - Lowland Maple	Medium Density	25.7	12	1-50	The stand is a mixture of uplands, lowlands, and tag alder. The regeneration is patchy. Some of the lowland areas are very wet.
67	4119 - Mixed Northern Hardwoods	High Density Log	12.1	Uneven Age	141-170	(ages 91/61/53) The stand is mainly uplands with some areas of lowlands. There is a ridge along the edge of the flooding. The trees are largest at the east end of the stand. They get progressively smaller going west. There is very little ground cover.
68	6119 - Mixed Lowland Deciduous Forest	Medium Density	58.0	43	1-50	The terrain is hummocky. There are veins of lowland shrubs and areas that are open herbaceous in the stand.
69	4126 - White, Black, N. Pin Oak	High Density Sapling	34.4	14	1-50	The stand was harvested 2 YOE ago. The regeneration is doing well. There are some sparse pockets but, it is medium to well stocked overall.
70	4130 - Aspen	High Density Pole	9.7	26	51-80	The stand has a heavy understory of red maple in the west end. The maple is the same age as the aspen. The stand is very dense so it has very little ground cover.
72	4131 - Aspen, Oak	Medium Density Pole	22.5	38	1-50	The stand was part of a rotational burn in the past. The oaks are seeding in, especially along the north side of the stand. The terrain is hummocky. It is a matrix of uplands and lowlands with the uplands being around 60%.
73	4130 - Aspen	Medium Density Log	7.8	84	1-50	The stand is mainly over mature aspen with no regeneration



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
74	4124 - Red with White Oak	Medium Density Log	13.5	73	51-80	The stand was shelterwood harvested in 2009. The regeneration is mainly white pine seeding in from the stand that contains Bluff Creek. There are some red maple and aspen regeneration but it is now very dense.
76	4139 - Aspen, Mixed Deciduous	Medium Density Pole	30.0	38	1-50	The stand is mainly quaking aspen. There is a mixture of other species. Overall the stand is just converting to poles. The site index is low being around 50 to 55
77	4126 - White, Black, N. Pin Oak	High Density Pole	10.8	28	51-80	The stand is a matrix of uplands and lowlands with the uplands being about 70%. The terrain is hummocky.
78	6119 - Mixed Lowland Deciduous Forest	High Density Log	17.8	93	81-110	The stand is a matrix of uplands and lowlands with the lowlands being about 80%. EAB is present in the stand but light. There is a creek flowing through it and some portions of the stand are too wet to harvest. There is a chance that these areas could be done during drought or frozen conditions.
79	4124 - Red with White Oak	Low Density Log	5.9	92	1-50	The stand was harvested in 2007 as a seed tree harvest. The regeneration is low and it is mainly red maple stump sprouts. There are some white pines seeding in from the east. The deer browse is heavy causing poor regeneration.
80	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	47.7	38	1-50	This stand has a low site index for quaking aspen. The aspen is over leather leaf and blue berry. This area is very wet most of the year with sand soils. Therefore the nutrient level in the soil is low. This stand was also part of a rotational burn.
82	4123 - Red Oak	High Density Log	5.9	91	51-80	The terrain is hummocky. There is a drainage running through the stand. It was harvested as a shelterwood in 2007. However the regeneration is poor.
83	4199 - Other Mixed Upland Deciduous	Medium Density	75.4	25	1-50	The stand is a matrix of uplands and lowlands with the uplands being about 60%. There are inclusions of lowland shrubs in pockets.
86	4130 - Aspen	High Density Pole	31.2	38	1-50	The terrain is hummocky. It is a fine matrix of uplands and lowlands with the uplands being around 70%. White pine and bigtooth aspen are heaviest in the western portion of the stand.
87	4129 - Mixed Oak	High Density Pole	11.8	71	51-80	The terrain is hummocky. The stand currently has some good oak poles in it.
89	4130 - Aspen	Medium Density	10.2	13		This is the northern portion of a stand that was final harvested 12 years ago. This portion has regenerated fairly well. There are open areas with only a few trees. However, there are also areas, which are fully stocked.
91	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	24.5	Uneven Age	51-80	The density of the stand is variable. It is on the flood plain of Mud Creek. The flood plain is bordered by steep slopes.
93	4199 - Other Mixed Upland Deciduous	High Density Pole	19.0	41	51-80	This stand is mainly poles with some scattered larger overstory oak and pine.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
94	6113 - Lowland Maple	High Density Pole	52.5	Uneven Age	81-110	The overstory is starting to die off and the understory is progressing well. At the current time, significant harm will be done to the thick understory if the overstory is removed. There are inclusions of uplands in the stand but they are a small portion.
96	6119 - Mixed Lowland Deciduous Forest	High Density Log	29.3	82	81-110	The stand is a matrix of uplands and lowlands with the lowlands being about 75%. A creek flows through the stand and the ash is concentrated along it. EAB is present but it is only in isolated trees at the current time. Much of the stand is too wet to harvest.
97	4125 - Black, N. Pin Oak	High Density Pole	24.9	31	1-50	The stand is just coming into poles of mainly oak and maple. There are some residual log size oaks present.
98	4199 - Other Mixed Upland Deciduous	High Density Pole	50.2	82	51-80	The stand is variable going from pole oak toward the south end and to pole/saw maple and oak toward the north end. It is a matrix of uplands and lowlands with the uplands being about 60%
99	42200 - Natural White Pine	High Density Log	8.9	63	81-110	The stand is a natural white pine stand. The trees appear to have been open grown, for the most part, so they are very branchy. The hardwoods in the stand are in pockets.
100	4131 - Aspen, Oak	Low Density Sapling	30.4	13		The stand is patchy with a lot of open ground. There are also pockets of lowlands present.
102	4199 - Other Mixed Upland Deciduous	High Density Pole	18.7	85	51-80	The stand is hummocky. It is a matrix of uplands and lowlands with the lowlands being about 60%. There is a dry ridge along the west side of the stand.
103	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	54.5	65	1-50	The terrain is very hummocky. There are pockets of leather leaf and tag alder. The stand is a matrix of uplands and lowlands with the lowlands being about 80%. In addition, portions of the stand appear to have been part of an old beaver flooding that is now drained down.
105	4199 - Other Mixed Upland Deciduous	Medium Density	34.7	13	1-50	The stand is a matrix of uplands and lowlands with the uplands being about 75%. The green ash has EAB but it is not heavy at the current time. The regeneration is patchy with some dense pockets and some light pockets. The terrain is hummocky
106	4126 - White, Black, N. Pin Oak	High Density Log	37.5	82	51-80	The stand was harvested as a shelterwood in 2007. When the stand was harvested, the oak that was less than or equal to 4 inches DBH was left. The regeneration is starting to come in. The terrain is hummocky.
109	6119 - Mixed Lowland Deciduous Forest	High Density Pole	1.7	93	51-80	This small stand is a matrix of uplands and lowlands. The lowlands make up the majority.
110	4199 - Other Mixed Upland Deciduous	Low Density Sapling	19.4	6		The stand was harvested in 2007. The regeneration is patchy. It is very dense in the eastern portion of the stand and sparse in the western portion. The soils are dryer in the eastern portion as well.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
111	4125 - Black, N. Pin Oak	High Density Log	9.1	82	51-80	This stand was harvested about 15 years ago as a shelterwood harvest. There is some regeneration occurring but it is hindered by human activity in much of the stand. This area is heavily used for disperse camping through out the year. Trash is an intermittent problem.
113	4131 - Aspen, Oak	High Density Sapling	15.4	16	1-50	The oak was left in the stand at the time of harvest. It is a matrix of uplands and lowlands with the uplands being about 75%.
114	4131 - Aspen, Oak	Medium Density	20.7	25	1-50	The stand is a mixture of tree species going from areas dominated by oak to areas of pure aspen. The density is also variable going from well stocked to non-stocked. The aspen, red maple, and choke cherry are scattered through out the stand. The oak is heaviest in the western portion. It is a little larger in diameter than the maple and aspen. It appears that the oak less than or equal to 4" was left during the harvest.
115	6119 - Mixed Lowland Deciduous Forest	High Density Log	18.7	Uneven Age	51-80	The density is higher in the western portion than eastern. There is also more maple west and more oak east. There are several drainages going through the stand that connect the lowlands
117	6119 - Mixed Lowland Deciduous Forest	High Density Log	13.2	Uneven Age	81-110	The stand is a matrix of uplands and lowlands with the lowlands being about 60%. The oaks in the stand are heavier in the northern portions of the stand. The ash and red maple are heavier in the southern portions of the stand
118	4199 - Other Mixed Upland Deciduous	Medium Density Pole	8.5	51	1-50	The stand goes from open herbaceous to fully stocked poles to poorly stocked logs. The cherry in the stand looks to be in sorry shape with very weak crowns.
120	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	22.9	36	1-50	The stand is low and wet. There are some dry ridges and knobs in it. Much of it is barely forested having large areas of lowland shrubs.
121	4126 - White, Black, N. Pin Oak	High Density Log	13.4	82	1-50	The stand was harvested as a shelterwood in 1998. The regeneration is coming along well. The black spruce in the stand is holding its own. However there is some mortality. Often the black spruce is in the understory.
122	4131 - Aspen, Oak	High Density Sapling	22.9	21	1-50	The stand is hummocky. Some of the log size oaks were left when the stand was harvested as well as some of the pole size oak.
123	4131 - Aspen, Oak	High Density Sapling	10.6	21	1-50	The stand is a hodge podge of species. It looks like a fire went through the stand or it had a 4" spec harvest. There are pole size oaks and maple. The terrain is hummocky. There are areas of standing water in the spring. The aspen is heavier at the north end and maple and oaks at the south end.
124	6119 - Mixed Lowland Deciduous Forest	High Density Pole	12.7	51	51-80	The stand is low and wet. 50% of the stand has marsh grass as its ground cover. There are also inclusions of uplands.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
127	6112 - Lowland Aspen	Low Density Sapling	10.1	25	1-50	The stand is sparse. It is a matrix of uplands and lowlands with the lowlands being about 75%. The quaking aspen in the stand has poor form and the oak is not much better.
128	4126 - White, Black, N. Pin Oak	High Density Sapling	23.7	16	1-50	The stand is hummocky. When the stand was harvested the north end had some significant rutting. The harvest left oaks that were less than or equal to 4" DBH. The oak regeneration is a mixture of stump sprouts and seed source.
129	6113 - Lowland Maple	High Density Pole	16.3	51	51-80	The stand is a matrix of uplands and lowlands with the uplands being about 45%. The terrain is hummocky. There are inclusions of both lowland shrubs and upland herbaceous.
130	4131 - Aspen, Oak	High Density Pole	32.0	25	1-50	The oak density is highest along the road. The terrain is undulating to hummocky. There are inclusions of lowland shrubs. When the stand was harvested it appears that some of the oaks were left.
131	6112 - Lowland Aspen	Medium Density	13.3	26	1-50	The stand is a matrix of uplands and lowlands with the lowlands being about 75%. The uplands are concentrated along Burns Road. Currently there is a lot of natural thinning going on. This has led to the stand having significant coarse woody material on the forest floor.
133	6119 - Mixed Lowland Deciduous Forest	High Density Log	18.1	Uneven Age	81-110	The stand is a matrix of uplands and lowlands with the lowlands being about 60%. The terrain is hummocky. There are several drainages flowing through stand.
137	6114 - Lowland Oak	High Density Log	21.0	85	51-80	The terrain is hummocky. The stand was harvested and is now starting to regenerate. The ash is in pockets. EAB is present but at a low level currently.
138	6119 - Mixed Lowland Deciduous Forest	High Density Sapling	21.2	Uneven Age	1-50	The stand was harvested in 2006 as a seed tree/shelterwood. It is a matrix of uplands and lowlands. The uplands are on narrow ridges that go through the stand. The lowland areas are concentrated along the edges and the south end. The understory maple and oak should be the featured stand. The overstory is declining.
141	4199 - Other Mixed Upland Deciduous	High Density Pole	41.3	25	51-80	The stand has quite a bit of coarse woody material on the ground. Most of it is moderately too well-rotted. The terrain is slightly hummocky. There is some mortality in the overstory of oak, maple, and ash. EAB is not present in the stand at the current time. The ash is in isolated pockets.
142	4199 - Other Mixed Upland Deciduous	High Density Sapling	26.8	25	1-50	The stand is a matrix of uplands and lowlands with the uplands being about 70%. The lowland areas are heavy to lowland shrubs. The upland areas are heavy to oak. Much of the stand is a mixture of swamp hardwood and quaking aspen.
143	4125 - Black, N. Pin Oak	High Density Pole	29.1	25	1-50	The stand is on a ridge. When it was harvested the oaks appear to have been left.

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Gladwin Mgt. Unit

Report 8 – Forested Stands

Compartment: 099
Year of Entry: 2015



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
146	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	6.6	91	51-80	The overstory is coming down. The terrain is hummocky and wet. The stand is slightly too wet to harvest.
147	6113 - Lowland Maple	High Density Pole	10.1	Uneven Age	81-110	The stand was harvested by selection in 2003. The terrain is hummocky and wet. EAB is present and some of the trees are close to dying.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
12	629 - Mixed non-forested wetland	9.2	No	Low (NonForested)	The stand is the Mud Creek bottomland.
18	6224 - Treed Bog	3.9	No	Low (NonForested)	The stand is mainly paper birch over leather leaf, blueberry, and dogwood. The other species present are swamp white oak, white pine, and red maple.
20	6220 - Alder/willow	4.1	No	Low (NonForested)	The stand is mainly tag alder and willow with paper birch and some oak. The crown closure is near 15%.
23	6229 - Mixed lowland shrub	15.9	No	Low (NonForested)	The stand is mainly tag alder, winter berry, and leather leaf. There are some trees scattered. The highest density is in the southern portion of the stand.
25	3105 - Mixed Upland Herbaceous	24.4	Planted	Red Pine	This stand was harvested 12 years ago and it failed to regenerate.
29	629 - Mixed non-forested wetland	3.4	No	Low (NonForested)	The stand is a mixture of lowland grass and lowland shrubs with some pockets of oaks and maples.
30	6229 - Mixed lowland shrub	3.5	No	Unspecified	The stand is mainly lowland shrubs with some swamp hardwoods in the overstory.
32	6229 - Mixed lowland shrub	14.7	No	Low (NonForested)	The stand is mainly lowland shrubs with scattered red maple, swamp white oak, green ash, and hybrid red/black
34	6229 - Mixed lowland shrub	58.4	No	Low (NonForested)	The stand is heavy to leather leaf mixed with shrubs and marsh grass. There is a small area of open water in the southern portion of the stand.
35	3105 - Mixed Upland Herbaceous	18.6	Planted	Red Pine	The stand was harvested and it failed to regenerate. Currently there are some scattered oaks and pines but it is very sparse. The harvest occurred in 2000
36	3301 - Low Density Deciduous Tree	15.4	Planted	Red Pine	This stand is a failed aspen clear cut. Currently there are some red maple, aspen and oaks in it. However the regeneration is patchy at best. Much of the regeneration is in the south end. The harvest occurred in 2000.
38	3103 - Rubus-Fern	8.2	No	Unspecified	The stand is an area of mainly bracken fern and grass. Trees and shrubs are starting to encroach around the perimeter.
41	6239 - Mixed Emergent Wetland	13.5	No	Low (NonForested)	The stand was a beaver flooding. It has since drained down and it has become a beaver meadow. There are still areas of water but it is not as extensive as it once was.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
45	6230 - Cattail	53.1	Yes	Low (NonForested)	The stand is an old maintained flooding. The control structure has been removed and it was replaced with a spillway. Currently the water level is low and the only area of standing water is in the south end.
47	629 - Mixed non-forested wetland	28.3	No	Unspecified	This is on the flood plain of Mud Creek. The area has been impacted by beaver activity in the past. It is now mainly a beaver meadow with areas of willow and tag alder. The trees present are on the slopes coming out of the flood plain. These areas are heavy to hemlock, white pine and swamp hardwoods.
49	6229 - Mixed lowland shrub	3.9	No	Low (NonForested)	The stand is mainly a lowland shrubs type with pockets of marsh grass.
50	6225 - Bog	3.2	No	Unspecified	The stand is mainly a lowland shrub type with pockets of marsh grass.
53	11 - Low Intensity Urban	8.1	No	Unspecified	This is the ROW of M-18 and US-10 which includes the park and ride parking lot.
54	6229 - Mixed lowland shrub	5.8	No	Low (NonForested)	The stand is mainly lowland shrub type with scattered swamp hardwoods. Currently it has a crown closure of less than 15%. This is higher along the perimeter.
56	6233 - Wet Meadow	5.0	No	Low (NonForested)	The stand looks to be an old beaver flooding that has now drained.
60	629 - Mixed non-forested wetland	22.5	No	Low (NonForested)	The stand is a mixture of lowland shrubs with pockets of emergent wetlands.
62	6224 - Treed Bog	25.2	No	Unspecified	The stand has a heavy shrub layer of leather leaf mixed with other shrubs, mainly vaccinium. There are scattered quaking aspen and white pine trees. However, they appear to be stunted. Most of them have a diameter of less than 4" DBH at 37 years old. The site index is less than 45 so it is not a productive stand. This stand was part of a rotational burn.
64	6229 - Mixed lowland shrub	12.6	No	Low (NonForested)	The stand has some pockets of green ash and red maple. However, it currently has a crown closure that is less than 15%.
66	3105 - Mixed Upland Herbaceous	4.6	No	Low (NonForested)	The stand is an upland ridge. It is a natural stand of bracken fern and poverty grass.
71	3105 - Mixed Upland Herbaceous	7.0	Planted	Red Pine	The stand was harvested and did not regenerate. It is now mainly poverty grass and bracken fern.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
75	6229 - Mixed lowland shrub	70.7	No	Low (NonForested)	The stand is mainly tag alder and willow. There are pockets of swamp hardwoods in it. The crown closure is less than 25%.
81	6229 - Mixed lowland shrub	64.9	No	Low (NonForested)	The stand is made up of lowland shrubs. Most of them are less than 4' tall mixed with herbaceous vegetation.
84	6229 - Mixed lowland shrub	38.1	No	Low (NonForested)	This is an old beaver flooding. It is now tag alder with areas of marsh grass and leather leaf. There are also islands of trees having less than 15% crown closure.
85	629 - Mixed non-forested wetland	22.7	No	Unspecified	This stand was an old beaver flooding. It has drained down. There are still areas that hold water, even if much of it is now lowland shrubs.
88	3103 - Rubus-Fern	22.1	Planted	Red Pine	The stand was harvested and it did not regenerate well. It is currently non-forested herbaceous open land. It has some widely scattered pockets of trees.
90	6220 - Alder/willow	2.6	No	Low (NonForested)	This is a small depression of tag alder. There are some swamp hardwoods around its perimeter.
92	3301 - Low Density Deciduous Tree	5.9	Planted	Red Pine	Trees in the stand are around the perimeter. There is a large area of sweet fern mixed with poverty grass.
95	629 - Mixed non-forested wetland	122.1	No	Unspecified	This stand is a series of old beaver floodings. They are not holding much water. Therefore, the stand now goes from open water; to cattails and marsh grass; to willow and tag alder. There are inclusions of swamp hardwoods in pockets.
101	629 - Mixed non-forested wetland	5.7	No	Low (NonForested)	The stand looks to be a beaver flooding.
104	6229 - Mixed lowland shrub	39.5	No	Low (NonForested)	The stand is mainly lowland shrubs with areas of mixed non-forest wetlands and islands of trees. The trees are heaviest along the perimeter and in the north end.
107	3301 - Low Density Deciduous Tree	13.6	Planted	Red Pine	The stand was harvested but did not regenerate well. The access is poor being mainly from private.
108	6224 - Treed Bog	7.8	No	Unspecified	This stand is mainly leather leaf with paper birch and red maple in it. The birch is scattered throughout the stand. Red maple is heavier along the southern edge.
112	629 - Mixed non-forested wetland	3.5	No	Low (NonForested)	This stand is the river bottom land of Mud Creek.
116	629 - Mixed non-forested wetland	3.3	No	Unspecified	This is an area of lowland shrub mixed with open wetlands.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
119	6229 - Mixed lowland shrub	3.5	No	Low (NonForested)	The stand is mainly lowland shrubs with areas of cattails and marsh grass.
125	6225 - Bog	3.9	No	Low (NonForested)	The stand is mainly leather leaf with lowland shrubs along the perimeter.
126	629 - Mixed non-forested wetland	10.7	No	Low (NonForested)	The stand is a mixture of tag alder with areas of cattails and marsh grass.
132	3103 - Rubus-Fern	1.7	No	Unspecified	This is a natural opening of bracken fern with some grass, sweet fern and blackberry.
134	6225 - Bog	10.4	No	Low (NonForested)	The stand is a mixture of leather leaf and other lowland shrubs. The leather leaf is heaviest in the eastern half but there are pockets throughout the stand. The lowland shrubs are heaviest along the western side.
135	6220 - Alder/willow	13.8	No	Low (NonForested)	The stand is mainly tag alder and willow. There are scattered oaks, maple, ash, and paper birch.
136	6225 - Bog	9.3	No	Low (NonForested)	This stand is mainly leather leaf with some other lowland shrubs around the perimeter, especially in the north end. In addition, there are scattered oak, paper birch, red maple, and quaking aspen.
139	6229 - Mixed lowland shrub	7.0	No	Low (NonForested)	The site is a mixture of lowland shrubs. There is leather leaf in the southern portion of the stand.
140	6229 - Mixed lowland shrub	17.3	No	Unspecified	The stand is mainly tag alder and willow with inclusions of leather leaf. There are also some scattered swamp hardwood, mainly red maple, swamp white oak, hybrid oaks, and paper birch.
144	6225 - Bog	4.4	No	Unspecified	This stand is mainly leather leaf. The perimeter of the stand has some lowland shrubs and swamp hardwoods.
145	6225 - Bog	6.7	No	Low (NonForested)	The stand is heavy to leather leaf. There are some other lowland shrubs and swamp hardwoods along the south west edge.