



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 95

Entry Year 2016

Acreage: 3,822

County Midland

Management Area: Midland-Isabella

Revision Date: 02/07/2014

Stand Examiner: Steve Nyhoff

Legal Description:

T17N R1W, Section 33: T16N R1W, Sections 3-5, 8-10, and 15-18

Identified Planning Goals:

Overall, the uplands in the compartment have been heavily managed over the past 40 + years. A large portion of the compartment was cut in the 1960's by D-7 or manually cut for habitat. Therefore, the majority of the mature aspen is mainly in the 40+ age category. Regeneration from past harvests has been mixed. Most of the older harvests have regenerated well while some of the younger cuts have regenerated poorly. Some of this is caused by extensive deer browse.

This compartment falls under the Midland Isabella Management Area. The aspen in the Management Area has an aspen rotation of 40 years. However, the prescribed aspen harvest does not include all the aspen over 40 years old. The reduction is for the sake of moving the compartment toward a regulated flow of aspen.

When harvesting the aspen avoid small cuts so the regeneration has a better chance of getting by the deer. After harvesting the stands, if the regeneration is poor, look to interplant conifers. Much of the State Land in Midland County lacks a significant conifer component.

The swamp hardwood stands often have areas in them that are too wet to harvest. However, there may be opportunities to do limited harvest on the drier ground within the stands.

Soil and topography:

The main soil types are well-drained Covert sand on the ridges, moderately-drained Pipestone Sand on ridges and mid-slopes, and poorly-drained Kingsville fine sand at the base of slopes or in the draws.

Most of the stands are a mixture of uplands and lowlands. The terrain is often hummocky with extensive micro relief.

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

This compartment contains 3,782 acres of contiguous State Land and one land locked 40 acre parcel. The land to the west is mainly farms, residences and recreational lands. To the east of the compartment is Sanford Lake and Edenville. Therefore, the land is mainly subdivisions, residences and recreational property.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

There are many lowland shrub stands and marshes in the compartment that drain into Black and Mud Creek. Much of the flowing water is through numerous intermittent drainages or as sheet flow through the lowland types.

Wildlife Habitat Considerations:

Wildlife Habitat Considerations: Compartment #95. Both upland and lowland systems are present, making it suitable for a number of wildlife species. The majority of stands are lowland cover types. Furbearers including beaver, mink, muskrat, black bear, bobcat, and coyote use the lowlands as corridors as well as year-round habitat. Game species likely to be present in this compartment include black bear, bobcat, raccoon, coyote, wood duck, wild turkey, ruffed grouse and white-tailed deer. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These species include gray catbird, redbellied vireo, white-breasted nuthatch, tufted titmouse, black-capped

chickadees, eastern kingbirds and northern flicker. The compartment is easily accessible to hunters via Curtis Road and Baker Road.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) clay, silt, sand and gravel with minor dune sand. 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 5 and 15 Fields are located in this area. They produced small quantities of oil from the Berea and Detroit River Formations. Only sections 10 and 15 have oil and gas leases.

Vehicle Access:

Curtis Road goes through the northern end of the compartment. There are 4 access trails that go off of it. There are several other trails present which have been bermed to limit access. Consider replacing some them with gates to provide better access to law enforcement and fire control staff.

Survey Needs:

Survey is need along the east side to establish the private land.

Recreational Facilities and Opportunities:

There are no established facilities in the compartment. However, there are many large traditional hunting camps, especially in the west half. In addition, there is evidence of horseback riding, hiking, and trail riding occurring in the compartment. There is some abuse by illegal ORV use in the compartment Utilize timber management activities to balance resource protection by closing illegal trails causing resource damage.

In addition, all the State Land in sections 8 through 10 was purchase by the State Game Fund. This limits further development of recreational facilities because of the legal restrictions imposed by the funds

Fire Protection:

The compartment has an extensive road system. Many of the existing roads are closed but could be open for fire equipment with little effort. The fuel types are mostly aspen and swamp hardwood with only a small pine component so the compartment lacks explosive fuel types. Therefore the fire danger is moderate.

Additional Compartment Information:

There is some abuse by mud boggers and illegal ORV use in the compartment. The ORV use appears to be associated with hunting. The mud boggers and ORVs use of the road system in the west half of the compartment has damaged some of the existing roads.

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**

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	96	426	261	131	596	0	17	27	24	0	0	0	0	12	1590
Bog	48	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Herbaceous Openland	114	0	0	0	0	0	0	0	0	0	0	0	0	0	114
Low-Density Trees	109	0	0	0	0	0	0	0	0	0	0	0	0	0	109
Lowland Aspen/Balsam Poplar	0	23	94	0	251	0	0	0	0	0	0	0	0	0	368
Lowland Deciduous	0	20	119	57	27	5	16	0	14	0	0	0	0	166	424
Lowland Shrub	1002	0	0	0	0	0	0	0	0	0	0	0	0	0	1002
Marsh	70	0	0	0	0	0	0	0	0	0	0	0	0	0	70
Mixed Upland Deciduous	0	13	0	0	16	0	0	0	0	0	0	0	0	7	36
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
Red Pine	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
Treed Bog	23	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Upland Shrub	28	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Total	1490	483	474	188	890	5	33	27	41	0	0	0	0	192	3822



Report 2 – Proposed Treatment Summaries

Gladwin Mgt. Unit
Year of Entry 2016

Compartment 095
Total Compartment Acres: 3,822

Acres by Treatment Type

Commercial Harvest - 575 Tree Planting - 75 Other - 0
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Aspen Types	454	0	0	0	0	0	454
Lowland Deciduous Forest	100	22	0	0	0	0	122
Total	553	22	0	0	0	0	575

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5 73095005-Cut	150.7	4137 - Aspen, Birch	High Density Pole	41	51-80	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription The stand is to be harvested as a clearcut with reserves. The retention should be placed in patches to address visual concerns along Curtis Road. The retention should not exceed 5% of the area.

Other There are areas of low wet ground that will need to be watched when setting up the sale. Some of the wettest areas may need to be painted out. Rutting could be a problem so it should be harvested during dry or frozen conditions.

Next Steps: The stand is expected to regenerate naturally to aspen; it will be mixed with birch and maple.

Proposed Start Date: 10/01/2015

8 73095008-Cut	79.8	4130 - Aspen	Medium Density Pole	45	1-50	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription The stand is to be harvested as a clearcut with reserves. The reserves should be placed in pockets not to exceed 5% of the area.

Other The stand is a mixture of uplands and lowlands so rutting could be a problem. The stand should be harvested during dry or frozen conditions. The trees are of lower quality.

Next Steps: The stand is expected to regenerate to a medium stocking of aspen.

Proposed Start Date: 10/01/2015

14 73095014-Cut	17.3	4139 - Aspen, Mixed Deciduous	Medium Density Pole	61	1-50	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
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Prescription The stand is to be harvested as a clearcut with reserves. The retention should be placed in patches around the wetter areas to protect the soil from rutting.

Other Access will need to go through stand 13 or through stands 26 and 35. The stand has wet areas so harvest during dry or frozen conditions.

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

Proposed Start Date: 10/01/2015

23 73095023-Cut	9.5	4130 - Aspen	High Density Pole	45	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription The stand is to be harvested as a clearcut with reserves. Mark one or two trees per acre for retention. Focus on the retention of oaks. This harvest is being done to improve habitat for deer, grouse, and woodcock.

Other The stand has a component of autumn olive. They are concentrated along the two-track in the stand.

Next Steps: The stand is expected to regenerate naturally to aspen and maple.

Proposed Start Date: 10/01/2015



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
26	73095026-Cut	53.3	4130 - Aspen	Medium Density Pole	41	51-80	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription The stand is to be harvested as a clearcut with retention. The retention should be in pockets and should not exceed 5% of the area.

Specs:

Other This stand has some wet areas so rutting could be a problem.

Comments:

Next The stand will need to be looked at to determine if regeneration is successful.

Steps:

Proposed

Start Date: 10/01/2015

29	73095029-Cut	4.5	4130 - Aspen	High Density Pole	42	81-110	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
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Prescription The stand is to be harvested as a clearcut without reserves because of its small size. The harvest is being done to improve habitat for deer,

Specs: grouse, and woodcock.

Other

Comments:

Next The stand is expected to regenerate naturally.

Steps:

Proposed

Start Date: 10/01/2015

35	73095035-Cut	65.3	6112 - Lowland Aspen	High Density Pole	41	81-110	Harvest	Clearcut with Reserves	6112 - Lowland Aspen	Cmpt. Review Proposal
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Prescription The stand is to be harvested as a clearcut with reserves. The retention should be kept in patches and not exceed 5% of the area.

Specs:

Other Some areas of the stand are fairly wet and will need to be watched for rutting. Harvesting should be done during dry or frozen conditions.

Comments:

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

Steps:

Proposed

Start Date: 10/01/2015

38	73095038-Cut	4.9	4130 - Aspen	Low Density Pole	41	1-50	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription The stand is sparse and should be harvested as a clearcut with reserves. The retention should be in pockets.

Specs:

Other

Comments:

Next The stand is expected to regenerate naturally to a poor to moderately stocked aspen type.

Steps:

Proposed

Start Date: 10/01/2015



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
44	73095044-Cut	20.0	6112 - Lowland Aspen	Medium Density Pole	40	51-80	Harvest	Clearcut with Reserves	6112 - Lowland Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> The stand is to be harvested as a clearcut with reserves. The retention should be in pockets and not exceed 5% of the area. This harvest is being done to improve habitat for deer, grouse, and woodcock.</p> <p><u>Specs:</u></p> <p><u>Other</u> The stand is somewhat wet and rutting could be a problem.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> The stand is expected to regenerate naturally to a mixture of aspen and maple.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
51	73095051-Cut	20.1	4137 - Aspen, Birch	Low Density Pole	40	1-50	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> The stand is to be harvested as a clearcut with reserve. The retention should be no more than 2 trees per acre. This harvest is being done to improve habitat for deer, grouse, and woodcock.</p> <p><u>Specs:</u></p> <p><u>Other</u> The stand is sparse and has low pockets in it that could present rutting problems.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> The stand is sparse and being impacted by beaver. Therefore, it is expected to regenerate naturally to a medium to poorly stocked stand of aspen and maple.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
59	73095059-Cut	14.5	6112 - Lowland Aspen	High Density Pole	40	81-110	Harvest	Clearcut with Reserves	6112 - Lowland Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> The stand is to be harvested as a clearcut with reserves. The retention should be in pockets and not exceed 5% of the area. This harvest is being done to improve habitat for deer, grouse, and woodcock.</p> <p><u>Specs:</u></p> <p><u>Other</u> The stand is somewhat wet and rutting could be a problem. Therefore harvest the stand during dry or frozen conditions.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> The stand is expected to regenerate naturally to a mixture of aspen and swamp hardwoods.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
76	73095076-Cut	13.0	6119 - Mixed Lowland Deciduous Forest	High Density Log	75	51-80	Harvest	Group Selection	611 - Lowland Deciduous Forest	Cmpt. Review Proposal
<p><u>Prescription</u> The stand is to be harvested as a group selection cutting one 60-80 foot regeneration opening per acre. The marking will need to be done in such a way as to allow logging.</p> <p><u>Specs:</u></p> <p><u>Other</u> The soil is wet and rutting could become a big problem. The stand will need to be harvested in dry or frozen conditions.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> The stand is expected to regenerate naturally to swamp hardwoods.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
77 73095077-Cut	32.2	4139 - Aspen, Mixed Deciduous	High Density Pole	42	51-80	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription The stand is to be harvested as a clearcut with reserves. The retention should be in pockets and used to lessen the visual impact along Curtis Road. It should not exceed 5% of the area. This harvest is being done to improve habitat for deer, grouse, and woodcock.

Other The stand is fairly dry at the north end and gets progressively wetter going south. Some of the southern portions of the stand may need to be painted out. This could significantly reduce harvest acres.

Next The stand is expected to regenerate naturally to aspen mixed with maple and oak.

Proposed
Start Date: 10/01/2015

92 73095092-Cut	9.0	6119 - Mixed Lowland Deciduous Forest	High Density Pole	87	81-110	Harvest	Group Selection	611 - Lowland Deciduous Forest	Cmpt. Review Proposal
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Prescription The stand should be harvested a species removal of aspen and ash. However, some of the aspen and ash should be marked to retain.

Other The stand is fairly wet and rutting could be a problem so harvest during dry or frozen conditions.

Next The stand is expected to regenerate as a two-aged stand of swamp hardwood mixed with aspen.

Proposed
Start Date: 10/01/2015

114 73095114-Cut	20.1	4139 - Aspen, Mixed Deciduous	High Density Pole	42	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
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Prescription The stand is to be harvested as a clearcut with reserves. The retention should be in pockets and/or individually marked oak and pine. This should not exceed 5% in area and BA. This harvest is being done to improve habitat for deer, grouse, and woodcock.

Other
Comments:

Next The stand is expected to regenerate naturally to aspen and maple.

Proposed
Start Date: 10/01/2015

127 73095127-Cut	26.7	4130 - Aspen	Medium Density Log	71	1-50	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
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Prescription The stand is to be harvested as a clearcut with reserves. The retention should be in pockets or individually marked trees. The marked trees should favor oaks and pines but not eliminate any one species.

Other
Comments:

Next The stand is overmature and may not regenerate well. If the stand does not regenerate it will need to be interplanted with red pine.

Proposed
Start Date: 10/01/2015



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
145	73095145-Cut	22.5	4130 - Aspen	High Density Pole	24	51-80	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription Harvest the stand as a Clearcut with reserves. The retention should be placed around the low area but not exceed 5% by area.

Specs:

Other There are swales in the stand that will need to be watched for rutting.

Comments:

Next The stand is expected to regenerate to aspen with some other hardwoods.

Steps:

Proposed

Start Date: 10/01/2015

79	NF_73095079- Plant	9.3	3105 - Mixed Upland Herbaceous				Tree Planting	Hand Plant	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription The stand could be trenched and hand planted to red pine. Alternate is to scarfy and seed jack and white pine.

Specs:

Other

Comments:

Next Schedule a regeneration check

Steps:

Proposed

Start Date: Unspecified

94	NF_73095094- Plant	46.0	3301 - Low Density Deciduous Trees				Tree Planting	Hand Plant	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Thrench and hand plant upland portions of the stand.

Specs:

Other

Comments:

Next Scheduling regeneration survey after planting

Steps:

Proposed

Start Date: Unspecified

160	NF_73095160- Plant	19.3	3301 - Low Density Deciduous Trees				Tree Planting	Hand Plant	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Trench and hand plant red pine

Specs:

Other

Comments:

Next Schedule regeneration survey.

Steps:

Proposed

Start Date: Unspecified

**Total Treatment
Acreage Proposed: 637.9**



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
169	73095169-Cut	11.9	4130 - Aspen	High Density Pole	45	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription The stand is to be harvested as a clearcut with reserves. The retention should be in pockets and not exceed 5% by area.

Specs:

Other Portions of the stand are wet, so rutting could be a problem.

Comment:

Next The stand is expected to regenerate naturally to aspen.

Steps:

Proposed

Start Date: 10/01/2015

Limiting Factor 2E: Road needed

**Total Treatment
Acreage Proposed: 11.9**

Report 5 – Site Conditions

Gladwin Mgt. Unit
Steve Nyhoff : Examiner

Compartment 095
Year of Entry 2016

Availability for Management

Total Acres	Acres			Dominant Site Conditions					
	Available	Not Available		No	5D	2H	2G	2E	2B
1589	1545	44	Aspen	1,496	9	36		12	37
368	323	45	Lowland Aspen/Balsam Poplar	317			45		5
424	220	204	Lowland Deciduous	197		14	190		23
36	29	7	Mixed Upland Deciduous	29			7		
7	7		Northern Hardwood	7					
4	4		Red Pine						4
2,428	2,128	300	Total Forested Acres	2,047	9	50	242	12	69
	88%	12%	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	Available	2B: Unknown if access through adjacent landowner(s) is possible	4				
Comments:							
004	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	2G: Too wet (sensitive soils, does not include access issues)			
Comments: Stand blocked by lowland types and private land.							
005	Not Available	2G: Too wet (sensitive soils, does not include access issues)	14				
Comments: Stand was harvested heavy rutting.							

Report 5 – Site Conditions

Gladwin Mgt. Unit
Steve Nyhoff : Examiner

Compartment 095
Year of Entry 2016

006	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	
Comments: island surround by lowland typw				
007	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	24	
Comments: Slight chance of access				
008	Not Available	2G: Too wet (sensitive soils, does not include access issues)	10	
Comments:				
009	Available	2B: Unknown if access through adjacent landowner(s) is possible	7	
Comments:				
010	Available	2B: Unknown if access through adjacent landowner(s) is possible	9	
Comments:				
011	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	
Comments:				

Report 5 – Site Conditions

Gladwin Mgt. Unit
Steve Nyhoff : Examiner

Compartment 095
Year of Entry 2016

012	Available	2B: Unknown if access through adjacent landowner(s) is possible	8
Comments:			
013	Available	2B: Unknown if access through adjacent landowner(s) is possible	7
Comments:			
014	Not Available	2G: Too wet (sensitive soils, does not include access issues)	7
Comments:			
015	Not Available	2G: Too wet (sensitive soils, does not include access issues)	4
Comments:			
016	Not Available	5D: Unproductive Forest Land	9
Comments:			
017	Not Available	2G: Too wet (sensitive soils, does not include access issues)	20
Comments:			

Report 5 – Site Conditions

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Year of Entry 2016

018	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	
Comments:				
019	Not Available	2G: Too wet (sensitive soils, does not include access issues)	8	
Comments:				
020	Not Available	2G: Too wet (sensitive soils, does not include access issues)	8	
Comments:				
021	Not Available	2G: Too wet (sensitive soils, does not include access issues)	38	
Comments:				
022	Not Available	2G: Too wet (sensitive soils, does not include access issues)	4	
Comments:				
023	Not Available	2G: Too wet (sensitive soils, does not include access issues)	32	
Comments:				

Report 5 – Site Conditions

Gladwin Mgt. Unit
Steve Nyhoff : Examiner

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024	Not Available	2G: Too wet (sensitive soils, does not include access issues)	16
Comments:			
025	Not Available	2G: Too wet (sensitive soils, does not include access issues)	13
Comments:			
026	Not Available	2G: Too wet (sensitive soils, does not include access issues)	56
Comments:			
027	Not Available	2G: Too wet (sensitive soils, does not include access issues)	15
Comments:			
028	Available	2B: Unknown if access through adjacent landowner(s) is possible	4
Comments:			
029	Available	2B: Unknown if access through adjacent landowner(s) is possible	29
Comments:			

Report 5 – Site Conditions

Gladwin Mgt. Unit
Steve Nyhoff : Examiner

Compartment 095
Year of Entry 2016

030	Not Available	2G: Too wet (sensitive soils, does not include access issues)	14
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Comments:

031	Available	2E: Road needed	12
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Comments:



Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6113 - Lowland Maple	High Density Log	4.9	Uneven Age	81-110	The stand is level but low. It is hard to tell if the stand may be harvestable at the current time. Ground cover indicators are hard to find.
2	4130 - Aspen	High Density Sapling	25.6	25	51-80	The stand is mainly uplands with areas of lowlands along the edges. It has hummocky terrain along the perimeter. There is evidence of some beaver activity in the eastern portion of the stand. The stand is also going through a natural thinning at the current time.
4	6119 - Mixed Lowland Deciduous Forest	High Density Log	14.1	84		The edges of the stand and a portion of the interior appear to have been impacted by beaver activity. The crowns appear to be a mixture of ash and maple with a few scattered aspen. The central portion of the stand appears to be slightly higher than the edges. The crown closure is near 100% on the upland and goes down to 50% around the edges. There is EAB present in the nearby stands. Some of the trees in the stand appear to have EAB from what I could see across the beaver flooding.
5	4137 - Aspen, Birch	High Density Pole	150.7	41	51-80	The stand is a fine matrix of uplands and lowlands with the uplands being about 75%. The main trail that goes through the stand has several borrow pits along it. There are also a few deep holes in the trail. The merchantable wood is mainly pulp and the trees have 2 to 4 sticks in them.
6	4139 - Aspen, Mixed Deciduous	Medium Density Pole	23.6	84	1-50	The terrain is undulating and goes from lowland shrubs to open herbaceous to swamp hardwoods to sparse aspen. The red maple is heaviest in the intermediate wet ground and it is fairly well stocked; the uplands have sparse aspen sawlogs that are declining. Access could be a problem but may be possible from south east or south west.
8	4130 - Aspen	Medium Density Pole	79.8	45	1-50	The stand is variable going from well to poorly stocked. There are numerous areas of open herbaceous and lowland shrubs. The terrain is hummocky. Merchantable pulp trees average only 2.5 sticks.
12	4130 - Aspen	High Density Pole	24.9	40	81-110	The stand is mainly uplands with some lowland areas. There is a trace of white pine and oaks.
13	6112 - Lowland Aspen	High Density Pole	139.9	41	51-80	The stand is a matrix of uplands and lowlands with the lowlands being the majority. There are inclusions of lowland shrubs. The terrain is hummocky.
14	4139 - Aspen, Mixed Deciduous	Medium Density Pole	17.3	61	1-50	The stand is patchy. It is mostly uplands with some areas of lowlands.
17	4133 - Aspen, Mixed Pine	Medium Density Pole	12.0	Uneven Age	1-50	The stand is an island in a stand of mixed non-forested wetlands. Old beaver activity has thinned the northern half of the stand. The terrain is hummocky.
18	6112 - Lowland Aspen	High Density Sapling	12.7	24	1-50	The stand is a matrix of uplands and lowlands with the lowlands being around 80%. The terrain is hummocky. Overall it is too wet to harvest, though there are some slight ridges that could be.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4130 - Aspen	High Density Sapling	79.2	15	1-50	The stand is a matrix of uplands and lowlands with the uplands being about 75%. Birch and maple are concentrated in the depressions. The terrain is hummocky. There are inclusions of lowland shrubs and open herbaceous. There is a trace of white pine in the NW corner.
21	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	13.7	27	1-50	The stand is in a draw. The terrain is hummocky with inclusions of uplands. When the stand was harvested there was some rutting.
23	4130 - Aspen	High Density Pole	9.5	45	81-110	The stand is on a ridge. There are inclusions of lowlands. There is autumn olive present along the two-tracks.
24	4130 - Aspen	Medium Density Pole	38.9	27	51-80	The stand is variable going from well to poorly stocked. The terrain is hummocky with some pockets of lowland shrubs. The stand is sparse along the west side from old beaver activity.
25	4130 - Aspen	High Density Pole	27.8	45	51-80	The stand is a matrix of uplands and lowlands with the uplands being around 80%. There are inclusions of lowland shrubs. The stand is fairly sparse along the southern edge, this appears to be the result of old beaver activity.
26	4130 - Aspen	Medium Density Pole	53.3	41	51-80	The stand is patchy. It is denser on the wetter soil. The wetter ground is very hummocky. There are inclusions of open herbaceous and lowland shrubs.
27	4139 - Aspen, Mixed Deciduous	High Density Pole	11.1	40	51-80	The stand is a matrix of uplands and lowlands with the uplands being the majority. However, it is close to a 50 50 mix. The terrain is hummocky.
28	6112 - Lowland Aspen	Medium Density	30.4	23	1-50	The stand is a matrix of uplands and lowlands with the lowlands being about 80%. Birch and maple are concentrated in the low ground and aspen on the moderately to well drained ground. There are veins of lowland shrubs running through the stand.
29	4130 - Aspen	High Density Pole	4.5	42	81-110	The stand is hummocky
30	6113 - Lowland Maple	High Density Pole	55.9	24	81-110	The stand is a matrix of uplands and lowlands with the lowlands being about 80%. Much of the stand is too wet to harvest though there are areas of uplands. The terrain is hummocky. The aspen in the stand is overmature. There is a thick understory of maple sapling and poles.
35	6112 - Lowland Aspen	High Density Pole	65.3	41	81-110	The terrain is hummocky having a heavy pit and mound topography. There are inclusions of lowland shrubs. The stand is a matrix of uplands and lowlands and the mix is about a 50 50. However, the lowlands are the majority.
36	4139 - Aspen, Mixed Deciduous	High Density Sapling	17.8	23	81-110	The stand is a matrix of uplands and lowlands with the uplands being the majority. However, it is close to a 50 50 mix. The terrain is hummocky. The low ground tends to have thick tag alder and michigan holly in the understory.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	4131 - Aspen, Oak	Low Density Sapling	12.5	5	1-50	The stand was harvested leaving oak, birch, and black gum. The regeneration is patchy and mainly along Curtis Rd. and on the uplands knobs. The lowlands did not regenerate well.
38	4130 - Aspen	Low Density Pole	4.9	41	1-50	The stand is patchy with aspen clones. There are no young trees. The ground cover is bracken fern and poverty grass. There is a trail going through it
40	6112 - Lowland Aspen	High Density Pole	18.1	27	51-80	In general the stand appears to be very wet in the spring but dries out in late summer. It appears to be harvestable. The birch and ash in the stand are mainly around the lowland shrub inclusions.
42	4199 - Other Mixed Upland Deciduous	Medium Density	13.2	17	1-50	The stand is patchy. Quaking aspen are in scattered clones. Beaver are hitting parts of the south end of the stand.
43	4130 - Aspen	Medium Density Pole	21.8	42	51-80	The terrain is hummocky. The stand is on a ridge and the trees are somewhat patchy. There are areas of open herbaceous. There is a trail running through it.
44	6112 - Lowland Aspen	Medium Density Pole	20.0	40	51-80	The stand is variable going from well to poorly stocked. It is also a matrix of uplands and lowlands with the lowlands being the majority. However, it is close to a 50 50 mix.
45	4130 - Aspen	High Density Pole	18.2	42	81-110	The stand is a ridge with a trail in the southern half. The terrain is hummocky. Some of the low pockets are along the edges.
48	4139 - Aspen, Mixed Deciduous	Medium Density	15.5	15	1-50	The stand is patchy with pockets of aspen, lowland shrubs, red maple, and open herbaceous. The terrain is hummocky. The stand is a matrix of uplands and lowlands with the uplands being the majority. The crown closure is only about 60%. There is heavy deer browse on the oaks that have not gotten above browse line.
49	6119 - Mixed Lowland Deciduous Forest	High Density Log	15.4	Uneven Age	81-110	Most of the stand is too wet to harvest.
51	4137 - Aspen, Birch	Low Density Pole	20.1	40	1-50	Much of the stand has been heavily impacted by beaver activity. The terrain is hummocky. It is a matrix of uplands and lowlands with the uplands being about 80%.
54	6113 - Lowland Maple	High Density Pole	4.9	58	51-80	The stand is a matrix of uplands and lowlands with the lowlands being about 70%. The terrain is hummocky.
55	4139 - Aspen, Mixed Deciduous	Medium Density	28.5	7		The stand is in the process of regenerating. The regeneration is patchy. There are inclusions of lowland shrubs, especially in the north end. The conifer in the stand was left when it was harvested. This left patches of pole sized white and red pine.
56	4130 - Aspen	Medium Density Pole	25.7	23	51-80	The terrain is hummocky. There are several inclusions of lowland shrubs. It is a matrix of uplands and lowlands with the uplands being the majority.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
58	4130 - Aspen	High Density Pole	38.2	41	81-110	The terrain is hummocky and the edges are wet.
59	6112 - Lowland Aspen	High Density Pole	14.5	40	81-110	The stand is a matrix of uplands and lowlands with the lowlands being the majority. Overall the stand is about a 50 50 mix. The terrain is hummocky. There are inclusions of lowland shrubs.
62	6119 - Mixed Lowland Deciduous Forest	High Density Pole	38.0	Uneven Age	81-110	The terrain is hummocky. The stand is a matrix of uplands and lowlands with the lowlands being the majority. There are portions of the stand that could be harvested. There are also areas in the stand that are too wet to harvest.
63	4130 - Aspen	High Density Sapling	9.8	23	51-80	The stand is mainly uplands with lowland inclusions. The terrain is hummocky.
64	4139 - Aspen, Mixed Deciduous	High Density Sapling	25.8	23	51-80	The stand is a matrix of uplands and lowlands with the uplands being the majority. The terrain is hummocky. There are inclusions of lowland shrubs as well as open herbaceous. The heaviest area of lowland shrubs is along the west side.
65	4130 - Aspen	Medium Density Pole	9.4	37	1-50	The stand is on a narrow ridge. Mid-way through it there is a lowland shrubs pocket. Currently the stand has low volumes and acreage. It is also difficult to get to.
66	4130 - Aspen	High Density Sapling	23.0	25	51-80	The stand is a matrix of uplands and lowlands with the uplands being about 75%. There are inclusions of lowland shrubs and swamp hardwoods.
68	6112 - Lowland Aspen	Low Density Sapling	18.0	15	1-50	The stand is a matrix of uplands and lowlands with the lowlands being the majority. However, it is close to a 50 50 mix. There are inclusions of lowland shrubs and open herbaceous. The trees are patchy and the terrain is hummocky. The crown closure is between 30 and 40%. Deer browse is heavy on the oaks.
71	4139 - Aspen, Mixed Deciduous	High Density Sapling	13.8	23	51-80	The stand is a matrix of uplands and lowlands with the uplands being the majority. The stand gets wetter going south. There are inclusions of lowland shrubs in the south end.
72	4130 - Aspen	High Density Pole	25.4	42	81-110	The stand is a matrix of uplands and lowlands with the uplands being about 80%. The terrain is hummocky.
73	4137 - Aspen, Birch	Low Density Sapling	45.5	15		The stand is a matrix of uplands and lowlands with the uplands being about 55%. The trees are in pockets with some scattered. There are also inclusions of lowland shrubs.
74	6119 - Mixed Lowland Deciduous Forest	High Density Pole	18.7	42	51-80	The stand is a mixture of ridges and swales. Some of the swales are too wet to harvest. The ratio of uplands to lowlands is 35/65, of the 65% about half is too wet to harvest.
75	6113 - Lowland Maple	Low Density Pole	4.6	42	1-50	This is a wet draw that varies from lowland shrubs to swamp hardwoods. The size of the trees is also variable going from saplings to logs. Overall the stand is very wet and cannot be harvested.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
76	6119 - Mixed Lowland Deciduous Forest	High Density Log	13.0	Uneven Age	51-80	The stand was harvested 15 years ago as a selection. The terrain is hummocky. There are some areas that are quite wet. The regeneration that is occurring is heavy to ash.
77	4139 - Aspen, Mixed Deciduous	High Density Pole	32.2	42	51-80	The terrain is hummocky. There are inclusions of lowlands. There is a trace of both white pine and oaks. The stand is a matrix of uplands and lowlands with the uplands being around 80%.
78	4130 - Aspen	High Density Pole	14.6	43	51-80	The stand is generally on a ridge but there are areas of low wet ground. There are also some larger overstory oaks as well as areas of open herbaceous.
80	4130 - Aspen	Medium Density Pole	9.3	23	51-80	This stand is on a ridge and it is variable in density. The stand goes from well to poorly stocked. There is a trail running through the stand. There are areas of low wet ground along the edges.
81	4131 - Aspen, Oak	Medium Density	34.9	16	1-50	The stand is variable going from well to poorly stocked. The terrain is hummocky. There are inclusions of lowland shrubs.
83	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	20.0	17		The stand is low and wet. There are uplands along the edges. Trees are mainly on islands with some scattered trees.
84	6113 - Lowland Maple	High Density Pole	3.7	Uneven Age	81-110	The stand is in a draw and it is too wet to harvest. The terrain is hummocky.
85	4130 - Aspen	High Density Pole	7.0	23	51-80	The stand is a matrix of uplands and lowlands with the uplands being about 70%. The terrain is hummocky and there are pockets of lowland shrubs.
86	4131 - Aspen, Oak	Medium Density	54.9	8	1-50	The stand was private until 2007. The northern portion of the parcel was clearcut retaining oak and blackgum. Overall the stand is a matrix of uplands and lowlands with the uplands being about 75%.
87	4130 - Aspen	Medium Density	18.6	23	1-50	The stand is a matrix of uplands and lowlands with the uplands being about 75%. There are inclusions of lowland shrubs as well as open herbaceous in the stand. The terrain is hummocky.
88	42210 - Natural Red Pine	High Density Log	3.6	80	111-140	The stand is hummocky and has areas of low and high ground. Access to the stand may be a problem being block by private land and lowland types. There may be access over the school property which is the SESW SEC 3.
90	4130 - Aspen	High Density Sapling	15.8	23	1-50	The stand is just coming into poles. It is on a ridge and there is a trail running through it.
91	4139 - Aspen, Mixed Deciduous	High Density Pole	26.0	37	81-110	The stand is variable going from well to poorly stocked. It is a matrix of uplands and lowlands with the uplands being about 80%. The species composition is variable because of beaver activity in the past. The western portion of the stand is wetter than the eastern portion.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
92	6119 - Mixed Lowland Deciduous Forest	High Density Pole	9.0	Uneven Age	81-110	The stand is a matrix of uplands and lowlands and it is about a 50/50 mix. EAB is present but not extensive.
93	6113 - Lowland Maple	Medium Density	13.5	25	1-50	This stand is along an old beaver flooding as such the amount of aspen is low. The aspen that is present is concentrated along the east and west sides. The terrain is hummocky.
95	4139 - Aspen, Mixed Deciduous	High Density Pole	47.6	37	51-80	The stand is a matrix of uplands and lowlands with the uplands being the majority. There are inclusions of lowland shrubs and swamp hardwoods. There are also some large overstory oaks that were left when the stand was cut.
96	4130 - Aspen	High Density Pole	28.5	32	81-110	The stand has a ridge running through it. At the base of the ridge the stand is heavy to swamp hardwoods. Some oaks were retained when the stand was cut. A couple of them are > 26" DBH. However, most are < 20" DBH. Access is a problem being block by private land and lowland types. There may be access over the school property which is the SESW SEC 3.
100	6112 - Lowland Aspen	Medium Density Pole	11.3	42	1-50	The stand is a matrix of uplands and lowlands with the lowlands being the majority. There are pockets of lowland shrubs, leather leaf, and cranberry.
102	4130 - Aspen	High Density Pole	10.5	45	51-80	The stand is on a ridge. It has a crown closure closer to 75% but it varies between 50 and 100%.
103	4130 - Aspen	High Density Sapling	10.6	16	1-50	The terrain is hummocky. The stand goes from medium to well stocked. There are also inclusions of lowland shrubs.
106	4130 - Aspen	High Density Pole	19.6	37	51-80	The stand is a ridge. It has open areas of grass. The main trail runs through it.
108	6119 - Mixed Lowland Deciduous Forest	High Density Log	9.9	Uneven Age	51-80	The stand is variable going from well to poorly stocked. The terrain is hummocky and wet. Overall the stand is too wet to harvest.
109	4130 - Aspen	Medium Density	20.3	16	1-50	The terrain is hummocky. The stand goes from open herbaceous to lowland shrub to well stocked aspen regeneration.
112	6119 - Mixed Lowland Deciduous Forest	High Density Log	11.6	Uneven Age	81-110	The stand is a matrix of uplands and lowlands with the lowlands being the majority. The terrain is hummocky.
113	4130 - Aspen	Medium Density	38.3	16	1-50	The stand is a matrix of uplands and lowlands with the uplands being the majority. The terrain is hummocky to undulating. The stand is variable going from well to poorly stocked to lowland shrubs.
114	4139 - Aspen, Mixed Deciduous	High Density Pole	20.1	42	51-80	The stand is a matrix of uplands and lowlands with the uplands being the majority. The stand is variable going from well to poorly stocked to non-forested. The terrain is hummocky.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
117	4199 - Other Mixed Upland Deciduous	High Density Sapling	7.0	45	1-50	The stand is on a ridge. Portions of the stand are wet. However, it is about 85% uplands.
120	6113 - Lowland Maple	Medium Density Pole	13.5	37	51-80	The stand is variable going from well to poorly stocked. The terrain is hummocky. There are inclusions of lowland shrubs.
121	4130 - Aspen	High Density Sapling	14.1	15	51-80	The stand is mainly uplands but there are inclusions of lowlands in it.
122	6113 - Lowland Maple	Medium Density Pole	3.5	45	51-80	The stand is a wet strip of timber between two lowland shrub types. The stand is too wet to harvest.
123	6113 - Lowland Maple	High Density Sapling	11.9	24	1-50	The stand grades from uplands to lowlands; as such it is a matrix of uplands and lowlands with the lowlands being the majority. There are areas of lowland shrubs within the stand.
126	4130 - Aspen	High Density Sapling	38.2	15	51-80	This stand regenerated well. It is just starting to go through a natural thinning process. The terrain is hummocky. There are pockets of wet ground especially along the east side next to pre inventory stand 123. The crown closure is around 80%.
127	4130 - Aspen	Medium Density Log	26.7	71	1-50	The stand is on a ridge. The density in the stand is variable. It goes from well to poorly stocked.
128	4130 - Aspen	High Density Pole	7.8	45	81-110	The stand is hummocky and has areas of low wet ground. It could be harvested if private lines can be established.
131	6113 - Lowland Maple	Medium Density Pole	7.9	30	1-50	The stand is a matrix of uplands and lowlands with the lowlands being about 80%. It is variable going from well to poorly stocked; and from open herbaceous to lowland shrubs.
133	6113 - Lowland Maple	High Density Pole	8.3	Uneven Age	51-80	The stand is a matrix of uplands and lowlands with the lowlands being about 80%. The terrain is hummocky. The stand appears to have standing water in the spring. EAB is present. It is too wet to harvest.
134	4130 - Aspen	Low Density Pole	8.6	45	1-50	The stand is sparse. It is on a ridge and it is blocked by private land and lowland shrubs.
135	4199 - Other Mixed Upland Deciduous	High Density Log	6.8	Uneven Age	51-80	The stand is a matrix of uplands and lowlands with the uplands being the majority. There are inclusions of ash over tag alder and a pocket of hemlock.
139	4130 - Aspen	Medium Density	58.6	15		The stand is patchy with numerous aspen clones and areas of oak and maple. The terrain is hummocky and there are inclusions of lowland shrubs. The ground cover is heavy to blueberry and bracken fern.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
143	4139 - Aspen, Mixed Deciduous	Medium Density Pole	6.9	25	1-50	The terrain is undulating and goes from lowland shrubs to grass/bracken fern to forested. The stand was harvested and the regeneration only occurred on the upland portions.
144	6119 - Mixed Lowland Deciduous Forest	Medium Density	9.9	22	1-50	The stand is a matrix of uplands and lowlands with the lowlands being the majority. The canopy is a mixture of lowland shrubs and forested. The forested portions of the stand are on slight ridges.
145	4130 - Aspen	High Density Pole	22.5	24	51-80	The stand is mostly uplands with areas of lowlands. The lowlands are heavy to red maple and the uplands are heavy to aspen.
147	4199 - Other Mixed Upland Deciduous	Medium Density Pole	9.1	45	1-50	The stand is on a ridge. The terrain is hummocky especially along the edges of the stand.
148	6113 - Lowland Maple	High Density Sapling	35.5	37	51-80	The stand is a matrix of uplands and lowlands with the lowlands being the majority. The terrain is hummocky. There some ridges present. When it was cut some of the overstory oaks were left.
149	6113 - Lowland Maple	High Density Pole	52.0	Uneven Age	81-110	The stand is a matrix of uplands and lowlands and they're about a 50/50 mix. The terrain is hummocky. There are inclusions of both lowland shrubs and open herbaceous. There is broad drainage flowing through it.
155	4119 - Mixed Northern Hardwoods	Medium Density Pole	7.1	Uneven Age	51-80	The stand is hummocky to undulating and it goes from lowland shrubs to well stocked poles. There are inclusions of lowland shrubs in the stand without trees in the overstory.
161	6113 - Lowland Maple	High Density Pole	7.3	69	51-80	The stand is variable in density. The terrain is hummocky. It is a matrix of uplands and lowlands with the lowlands being about 80%
162	4130 - Aspen	Medium Density	18.4	12		The stand is mainly uplands with a couple of lowland pockets. The southern edge of the stand is a steep ridge. White and Colorado blue spruce have been planted. Currently they only make up a trace amount in the canopy.
164	6119 - Mixed Lowland Deciduous Forest	High Density Pole	8.3	69	81-110	The terrain is hummocky. The stand is a matrix of uplands and lowlands with the lowlands being the majority.
165	6115 - Lowland Ash	Low Density Sapling	7.1	20	1-50	The stand appears to be an old beaver flooding; as such it is in a depression.
167	6113 - Lowland Maple	Medium Density	7.6	22	1-50	The stand is a matrix of uplands and lowlands with the lowlands being about 75%. Overall the stand is too wet to harvest. There are a few overstory trees that are 45 years old.
168	4130 - Aspen	Medium Density	8.5	14	1-50	The stand is mainly a ridge that has regenerated fairly well though it is somewhat patchy.

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Gladwin Mgt. Unit

Report 8 – Forested Stands

Compartment: 095
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
169	4130 - Aspen	High Density Pole	11.9	45	81-110	The stand is hummocky. There are areas of lowlands in it. Access could be a problem because beaver activity has flooded the existing trails.
170	6112 - Lowland Aspen	Medium Density Pole	32.3	25	51-80	The stand is variable going from well to poorly stocked. The terrain is undulating and goes from lowland shrubs to forested to open herbaceous.
171	6112 - Lowland Aspen	Low Density Sapling	5.4	14	1-50	The stand is a matrix of uplands and lowlands with the lowlands being about 80%. The terrain is very hummocky and the stand is located at the base of a ridge. The regeneration is patchy
173	4130 - Aspen	Medium Density	44.3	12		The regeneration in the stand is patchy. The terrain is hummocky and there are inclusions of lowlands.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	6220 - Alder/willow	14.6	No	Low	The stand is mostly tag alder and michigan holly less than 5' tall.
7	6229 - Mixed lowland shrub	27.2	No	Low	The stand was an old beaver flooding. It is now starting to regenerate to ash and red maple. The Ground cover is marsh grass. The shrubs are heavy to tag alder, michigan holly, and willow. There are still pockets of standing water present.
9	6229 - Mixed lowland shrub	23.1	No	Low	The stand is variable going from leather leaf to lowland shrubs to low density trees.
10	6225 - Bog	8.1	No	Unspecified	This stand is mainly leather leaf with scattered white pine, paper birch and quaking aspen.
11	6229 - Mixed lowland shrub	7.6	No	Unspecified	This stand is heavy to tag alder and michigan holly. There are some scattered ash and maple in the stand. They are located along the edges.
15	6229 - Mixed lowland shrub	15.1	No	Low	The stand is in a depression and it is mainly tag alder with some scattered trees.
16	629 - Mixed non-forested wetland	181.0	No	Low	The stand is a mixed bag going from beaver flooding to tag alder to leather leaf. There are also inclusions of upland knobs scattered throughout the stand.
20	6229 - Mixed lowland shrub	6.8	No	Low	This is a depression of tag alder.
22	3105 - Mixed Upland Herbaceous	4.4	No	Low	The stand is mainly grass with shrubs there are some scattered trees.
31	6229 - Mixed lowland shrub	6.7	No	Low	There are some scattered trees.
32	6220 - Alder/willow	2.6	No	Low	Stand is mainly tag alder.
33	6229 - Mixed lowland shrub	4.3	No	Unspecified	The stand goes from leatherleaf south to tag alder north.
34	6229 - Mixed lowland shrub	4.9	No	Low	This stand is in a draw and is a mixture of lowland shrubs.
39	6220 - Alder/willow	3.2	No	Low	This is a small depression.
41	6220 - Alder/willow	22.9	No	Low	This is mainly tag alder and willow with the tag alder along the edges.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
46	6224 - Treed Bog	4.1	No	Unspecified	The stand is mainly leatherleaf with scattered paper birch and quaking aspen. The crown closure is not quite thick enough to call the stand a treed bog.
47	6229 - Mixed lowland shrub	5.6	No	Low	The stand is heavy to tag alder and Michigan holly with a component of dogwood.
50	6229 - Mixed lowland shrub	22.2	No	Low	The stand is a mixture of leather leaf, tag alder, and small islands of trees. The crown closure is close to 25% in the eastern portion of the stand. However, most of the stand is less than 15%.
52	6225 - Bog	12.4	No	Low	The stand is a leather leaf bog with tag alder along the edges.
53	6229 - Mixed lowland shrub	63.4	No	Low	The stand is a mixture of leather leaf, tag alder, willow, and marsh grass. There are some scattered trees as well as uplands.
57	3303 - Mixed Low Density Trees	5.0	No	Low	The stand was harvested 5 years ago and the regeneration is poor. It is a matrix of uplands and lowlands with the uplands being the majority. The terrain is hummocky.
60	6220 - Alder/willow	18.0	No	Unspecified	This stand is mainly tag alder with some scattered trees and pockets of non-forested wetlands.
61	6229 - Mixed lowland shrub	4.9	No	Unspecified	This stand is located in a slight depression within a lowland forest type. There are some scattered trees, but the crown closure is less than 15%. The main species is ash, with some red maple.
67	6233 - Wet Meadow	7.1	No	Unspecified	This stand was on old beaver flooding. The dam is now breached and it is not holding water. It is now more of a wet meadow.
69	629 - Mixed non-forested wetland	112.5	No	Low	The stand is mainly emergent wetlands with areas of tag alder and willow and an island of trees which is heavy to conifers.
70	6225 - Bog	8.9	No	Unspecified	The stand is leather leaf with scattered white pine and paper birch.
79	3105 - Mixed Upland Herbaceous	9.3	Plantation	Planted Mixed Pines	The stand was harvested last YOE and did not regenerate. There are some scattered red maple stump sprouts and a couple of white pine sawlogs but not much else. The terrain is hummocky.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
82	629 - Mixed non-forested wetland	30.0	No	Unspecified	The stand was part of an old beaver flooding. The northern portion of the stand is lowland shrubs mainly and the south portion is marsh grass. There are still some pockets of water present.
89	6224 - Treed Bog	19.1	No	Unspecified	The stand is heavy to leather leaf at the north end going to tag alder and dogwood to the south. The overstory is mainly quaking aspen with some other pines and swamp hardwoods. These are widely scattered.
94	3301 - Low Density Deciduous Tree	46.0	Plantation	Planted Mixed Pines	This stand was harvested 15 years ago. It did not regenerate well. The aspen in the stand are in scattered clones. There is also some scattered maple and oak present. In addition, there are inclusions of lowland shrubs.
97	629 - Mixed non-forested wetland	39.7	No	Low	The stand is an old beaver flooding. The south end is a mixture of marsh grass and lowland shrubs. The north end has some pockets of trees among an area of tag alder and willow.
98	6233 - Wet Meadow	30.4	No	Unspecified	This stand is an old beaver flooding that is no longer holding water. It is more of a wet meadow now. In addition the stand had pockets of phragmites in it.
99	629 - Mixed non-forested wetland	24.6	No	Unspecified	This stand was an old beaver flooding. The southern portion of the stand is more of a wet grassy area with some pockets of standing water. The northern portion of the stand is more of a lowland shrub type with some scattered swamp hardwoods.
101	3105 - Mixed Upland Herbaceous	7.5	No	Unspecified	The stand is mainly bracken fern with some scattered trees. The terrain is hummocky and in areas the stand is quite wet.
104	3301 - Low Density Deciduous Tree	10.7	No	Unspecified	The stand goes from open herbaceous to lowland shrubs. There are scattered trees which are heavy to oaks. Also there are scattered pockets of quaking aspen and red maple.
105	3301 - Low Density Deciduous Tree	5.9	No	Low	The terrain is hummocky but mainly upland. There is a narrow drainage going through the stand. The ground cover is heavy to bracken fern over blueberry.
107	3105 - Mixed Upland Herbaceous	5.8	No	Low	The stand is a ridge. It is mainly poverty grass and bracken fern. There are inclusions of low ground.
110	3105 - Mixed Upland Herbaceous	19.7	Natural Regen	Aspen	The stand was harvested in october of 2013.
111	6225 - Bog	15.4	No	Low	The stand is mainly leather leaf with some scattered trees.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
115	6229 - Mixed lowland shrub	11.9	No	Unspecified	The stand is mainly low and wet. There are some pockets of 15 year old aspen and maple regeneration present.
116	6239 - Mixed Emergent Wetland	32.3	No	Low	The stand is a beaver flooding that looks to be draining down.
118	6229 - Mixed lowland shrub	15.7	No	Unspecified	The stand is mainly tag alder and michigan holly. There are some pockets of trees on the slightly dryer ground. These are mainly swamp hardwood.
119	6229 - Mixed lowland shrub	60.2	No	Low	The stand is a mixture of lowland shrubs, leather leaf and marsh grass.
124	6225 - Bog	2.6	No	Low	The stand is mainly leather leaf with scattered trees.
125	3105 - Mixed Upland Herbaceous	14.5	No	Low	The stand is a slight ridge. The terrain is hummocky. There is aspen along the east edge. There also some scattered trees in it.
129	3205 - Mixed Upland Shrub	11.7	No	Low	The stand is a white pine stump field. There is a fair amount of blueberry. The terrain is hummocky.
130	3105 - Mixed Upland Herbaceous	7.3	No	Unspecified	The stand is mainly bracken fern and poverty grass with some scattered sweet fern, lowland shrubs and trees.
132	629 - Mixed non-forested wetland	26.9	No	Unspecified	The stand is a mixture of lowland shrubs and leather leaf with islands of uplands, which are scattered.
136	3301 - Low Density Deciduous Tree	12.6	No	Low	The stand has a drainage running through it. Most of the stand is uplands.
137	6229 - Mixed lowland shrub	104.8	No	Low	The stand goes from tag alder and willow to leather leaf. There are inclusions of drier ground that have swamp hardwoods on them.
138	6229 - Mixed lowland shrub	8.3	No	Low	The stand is mainly tag alder, dogwood, michigan holly, and willow. There are areas of uplands but they are small in size. There are also some scattered trees, mainly ash.
140	6229 - Mixed lowland shrub	14.2	No	Low	The stand is heavy to leather leaf at the south end and lowland shrubs at the north end. There are also pockets of trees.
141	3105 - Mixed Upland Herbaceous	2.8	No	Low	The stand is a mixture of poverty grass and bracken fern. There are some scattered trees but < 15% crown closure.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
142	629 - Mixed non-forested wetland	51.2	No	Unspecified	The stand is variable going from lowland shrubs to open water. The shrubs are mainly tag alder and willow.
146	3102 - Grass	7.1	No	Unspecified	The stand is mainly poverty grass with a fair amount of bracken fern. There are scattered trees and blueberry.
150	3303 - Mixed Low Density Trees	2.4	No	Low	This is a poor site. Much of the ground cover is poverty grass, reindeer moss, and blueberry. There are some scattered oaks, willow shrubs, and service berry. The stand also has a pocket of Scotts pine.
151	6229 - Mixed lowland shrub	5.4	No	Low	The stand is heavy to michigan holly. There are some scattered trees that are mainly red maple and ash.
152	3203 - Upland Blueberry	12.6	No	Low	The terrain is hummocky. The stand is a white pine stump field. Some scattered trees and tag alder.
153	3301 - Low Density Deciduous Tree	3.3	No	Low	The stand is a sparse ridge. Ground cover is mainly grass with bracken fern.
154	3205 - Mixed Upland Shrub	4.0	No	Low	The stand is heavy to blueberry. There are also some scattered elderberry, oak, birch and witch hazel.
156	3105 - Mixed Upland Herbaceous	2.6	No	Low	The stand is mainly open herbaceous made up of bracken fern mainly with some grass.
157	3105 - Mixed Upland Herbaceous	21.3	No	Low	The stand is a mixture of bracken fern, poverty grass, and there are areas of sweet fern and blueberry.
158	6220 - Alder/willow	4.2	No	Low	This stand is drainage.
159	3301 - Low Density Deciduous Tree	3.6	No	Low	The stand was harvested 16 years ago and has not regenerated well. The regeneration is patchy at best.
160	3301 - Low Density Deciduous Tree	19.3	Plantation	Planted Mixed Pines	The stand was harvested 45 years ago and never regenerated well. The crown closure is close to being forested but not quite. The ground cover is mainly poverty grass and bracken fern.
163	6220 - Alder/willow	19.5	No	Low	The stand is mainly tag alder/willow. There are islands of drier ground that are forested with swamp hardwoods
166	3102 - Grass	11.3	No	Low	The stand has some scattered trees of oak, bigtooth aspen, and paper birch.
172	629 - Mixed non-forested wetland	24.6	No	Unspecified	This stand appears to be a newer beaver flooding.

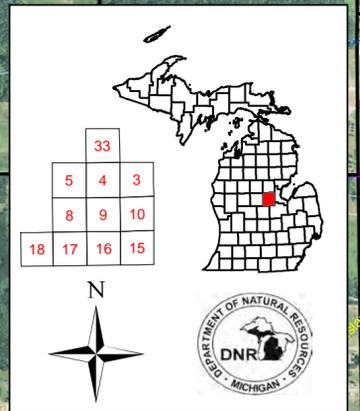


Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
174	6229 - Mixed lowland shrub	14.6	No	Low	The stand is a mixture of lowland shrubs (willow/tag alder) and non-forested wet grass. The area was harvested 12 years ago and it converted to non-forested.

Stand Boundary Map

Compartment: 095
 T16N R01W
 03 04 05 08 09 10 15 16 17 18 19 20 21 22
 T17N R01W
 33
 County: Midland
 Unit: Gladwin
 YOE: 2016
 Acres: 3,822 GIS Calculated
 Examiner: Steve Nyhoff
 Map Revised: 05/29/2014
 Map Phase: Pre-Review

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



Legend

- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

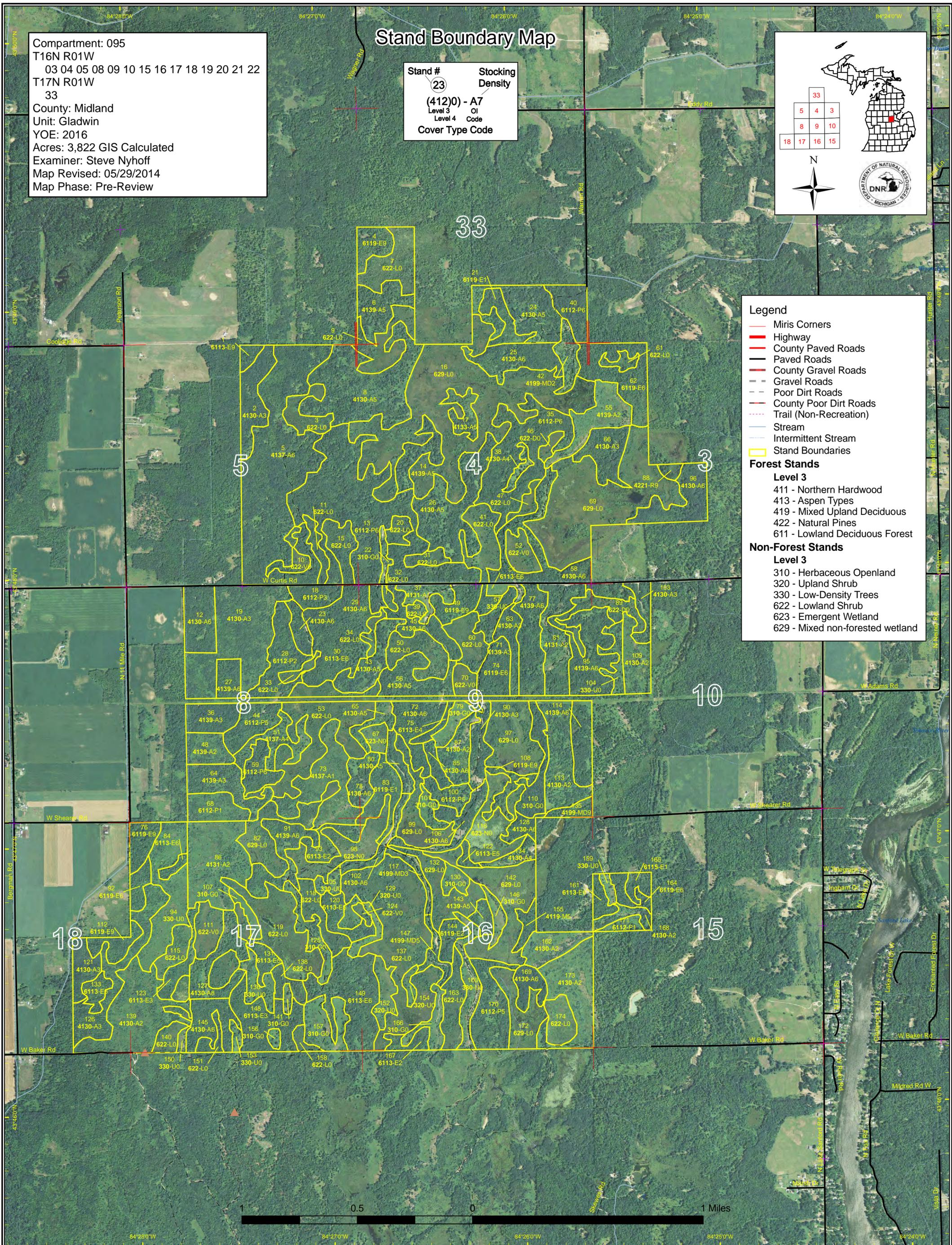
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest

Non-Forest Stands

Level 3

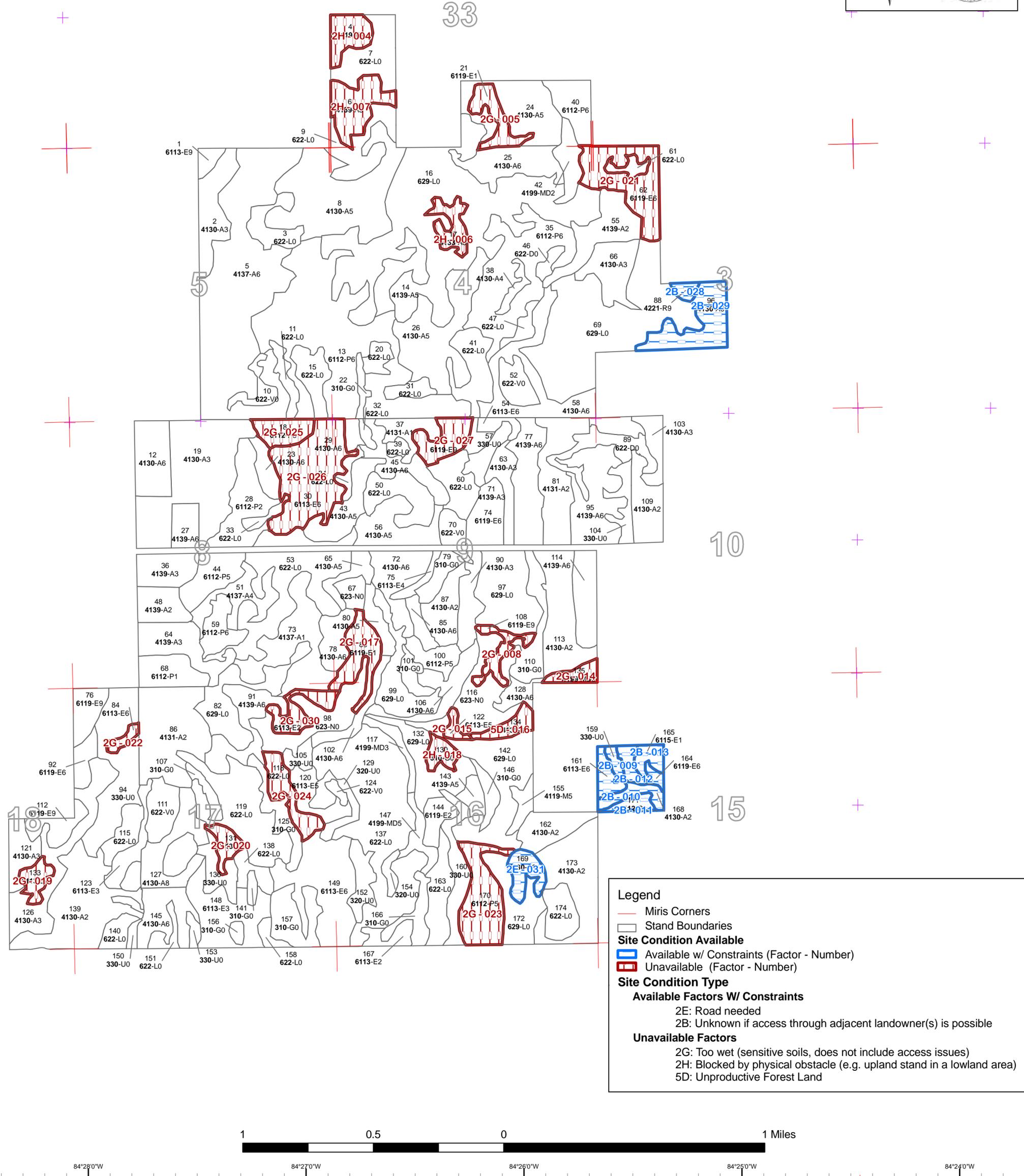
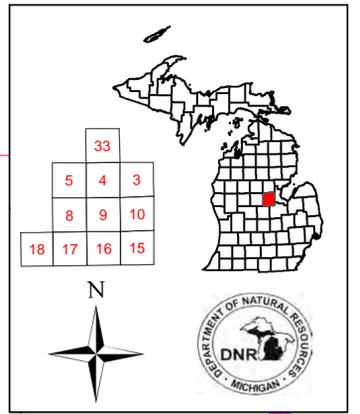
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland



Compartment: 095
 T16N R01W
 03 04 05 08 09 10 15 16 17 18 19 20 21 22
 T17N R01W
 33
 County: Midland
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 Examiner: Steve Nyhoff
 Map Revised: 05/29/2014
 Map Phase: Pre-Review

Special Conservation Areas & Site Conditions Map

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



Legend

- Miris Corners
- Stand Boundaries
- Site Condition Available**
 - Available w/ Constraints (Factor - Number)
 - Unavailable (Factor - Number)
- Site Condition Type**
 - Available Factors W/ Constraints**
 - 2E: Road needed
 - 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)
 - 5D: Unproductive Forest Land