



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53004

Entry Year 2019

Acreage: 1,450

County Cheboygan

Management Area: Pigeon River Country

Revision Date: 2017-06-12

Stand Examiner: Richard McDonald

Legal Description:

T34N - R01W sections 22, 27, 34

Identified Planning Goals:

Maintain current species mix and apply appropriate management techniques to mature stands of timber that are in need of treatment.

Soil and topography:

Flat to gently rolling. Soils are mostly Rubicon and Cheboygan sands.

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

Entirely state owned.

Unique Natural Features:

None identified.

Archeological, Historical, and Cultural Features:

Old logging camp apparently located in the vicinity of stands 50, 51 and 52. Try to locate site and avoid area with any treatments. Historic map of the area shows potential camp sites near stand 15 and 16.

Special Management Designations or Considerations:

None identified.

Watershed and Fisheries Considerations:

Weed Creek starts in this compartment. It is part of the Black River watershed.

Wildlife Habitat Considerations:

Please refer to Wildlife Biologist's comments.

Mineral Resource and Development Concerns and/or Restrictions

Sections 22, 27 and 34, T34N-R1W, Cheboygan County

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 50 and 400 feet. Beneath the glacial drift are the Devonian Antrim Shale and Traverse Group that are quarried for cement products and limestone elsewhere in the State. Afton quarry is located four miles to the northwest. A gravel pit is located to the north and there is good potential on the uplands. This area was previously leased for oil and gas development. The Antrim Shale subcrops in this area and appears to be too thin for production. The Niagaran reef trend is located eleven miles to the southeast. There is limited oil and gas potential for known producing formations in this compartment.

Consistent with the objectives of the Concept of Management there are no plans to engage in mining activities (sand, gravel, stone, etc.) or oil and gas development in this Compartment. Non-development (no surface infrastructure including pipelines, new roads, utility lines, well pads, etc.) oil and gas leasing may be considered.

Vehicle Access:

There is good access to most, if not all, of the compartment. Some of the roads, however, have been closed to wheeled motorized vehicles with berms or posts. Some closures are in need of repair.

Survey Needs:

There is good access to most, if not all, of the compartment. Some of the roads, however, have been closed to wheeled motorized vehicles with berms or posts. Some closures are in need of repair.

Recreational Facilities and Opportunities:

The Midland to Mackinaw Trail, Shore to Shore Riding and Hiking Trail and High Country Pathway all pass through this compartment.

Fire Protection:

Access is generally good in case of any fire suppression efforts, though the area is generally at low risk to any wildfire potential. Some road systems are closed with berms or posts.

Additional Compartment Information:

The following reports from the Inventory are attached:

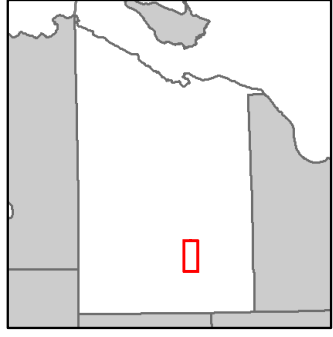
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

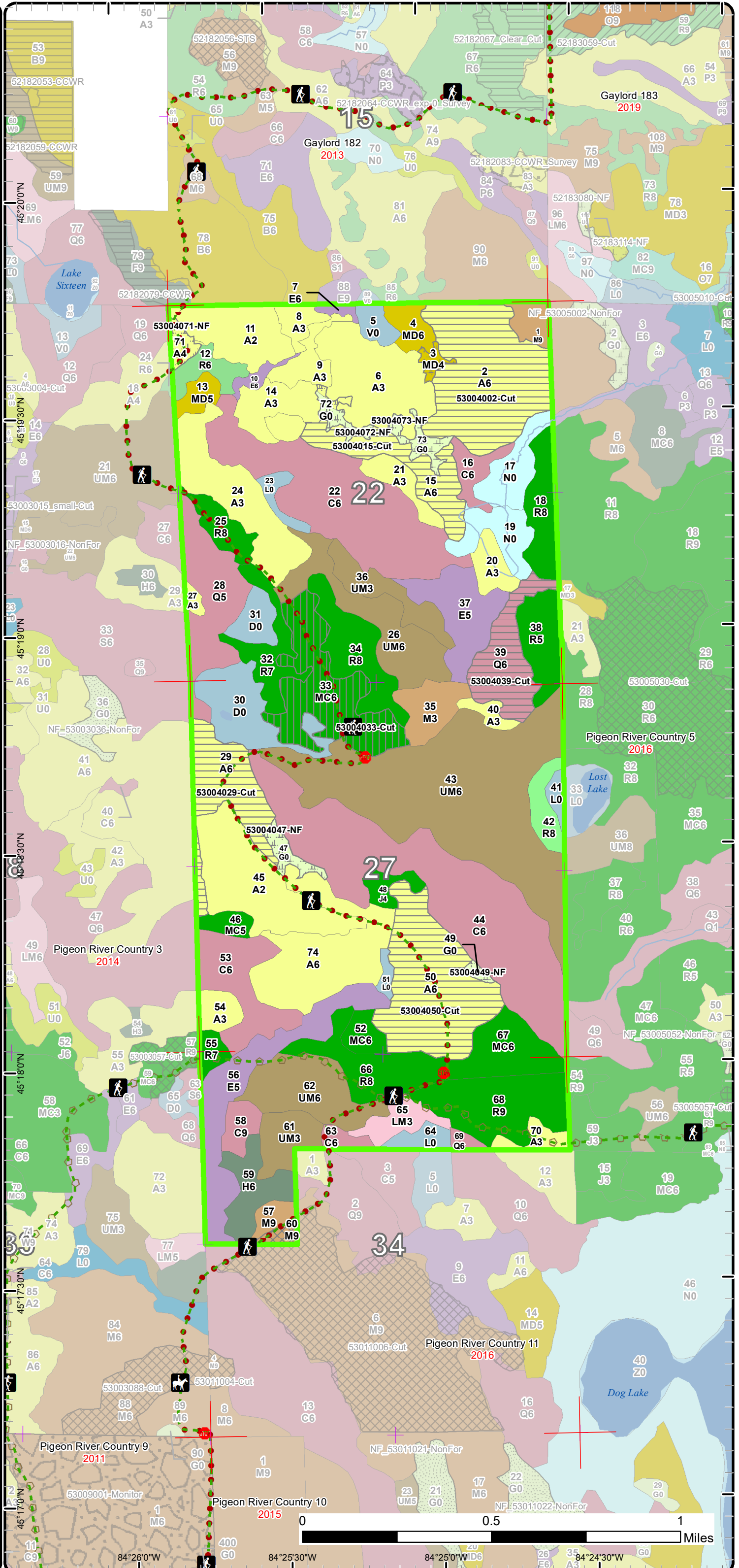
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 4
 T34N, R01W, Sec. 22, 27, 34
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2019
 Acres: 1449.8 GIS Calculated
 Examiner: Richard McDonald
 Map Revised: 1/10/2018
 Map Phase: Post-Review

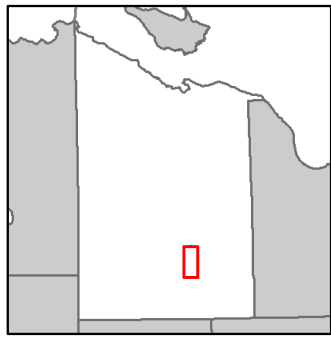


- Miris Corners
- + Remonumented Section Corners
- Counties
- Sign
- 🚲 Bike Trails
- 🚶 Hiking Trails
- 🐎 Horse Trails
- 🏂 Ski Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 424 - Pine (OI)
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

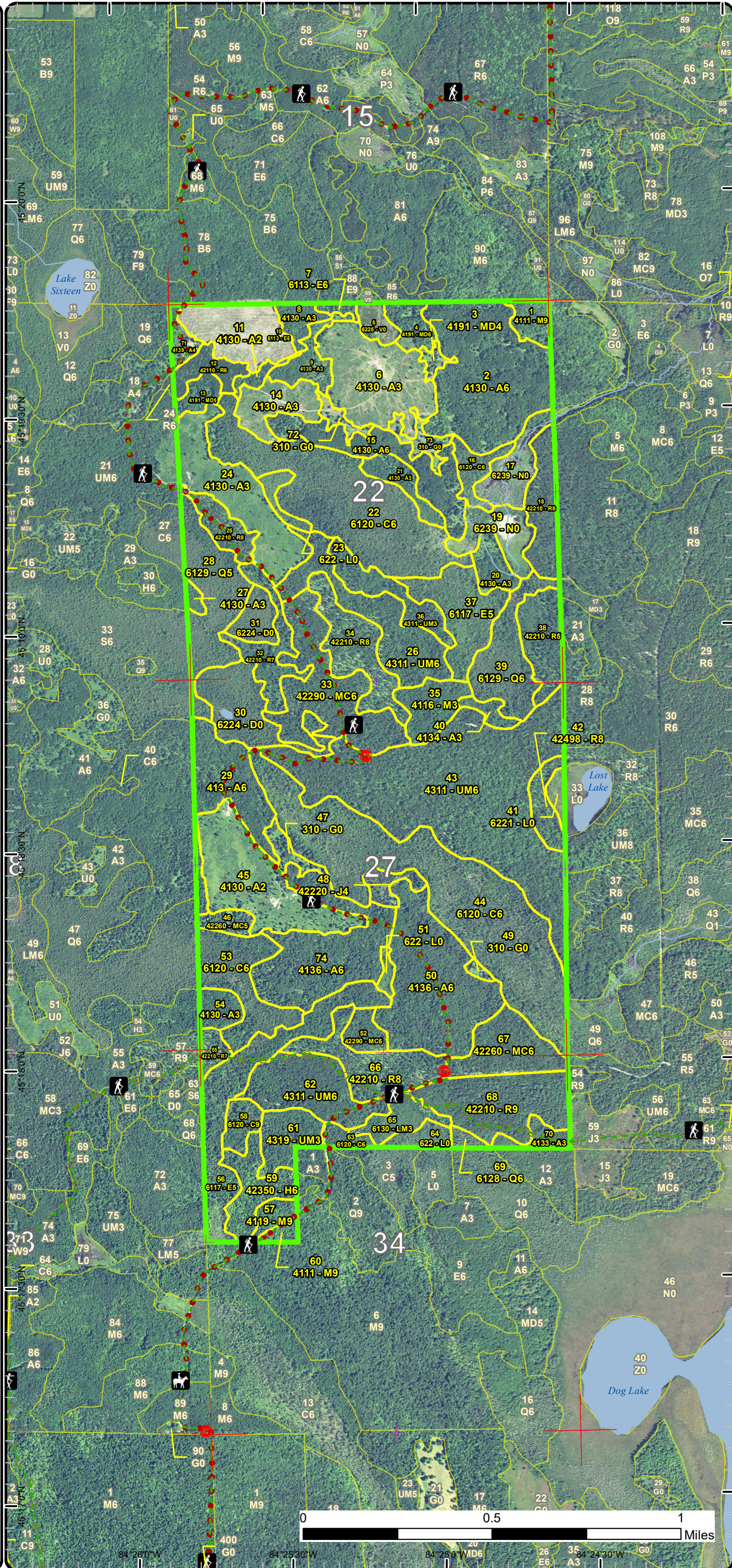


Stand Boundary Map

Compartment: 4
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- 411 - Northern Hardwood
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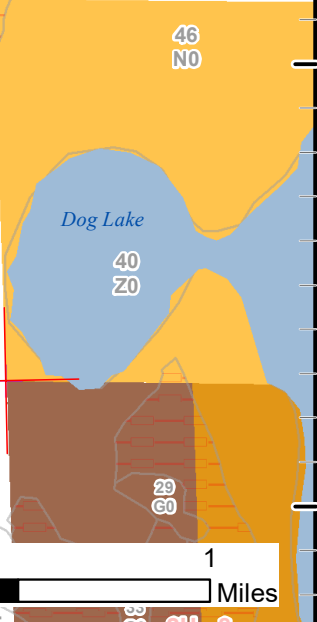
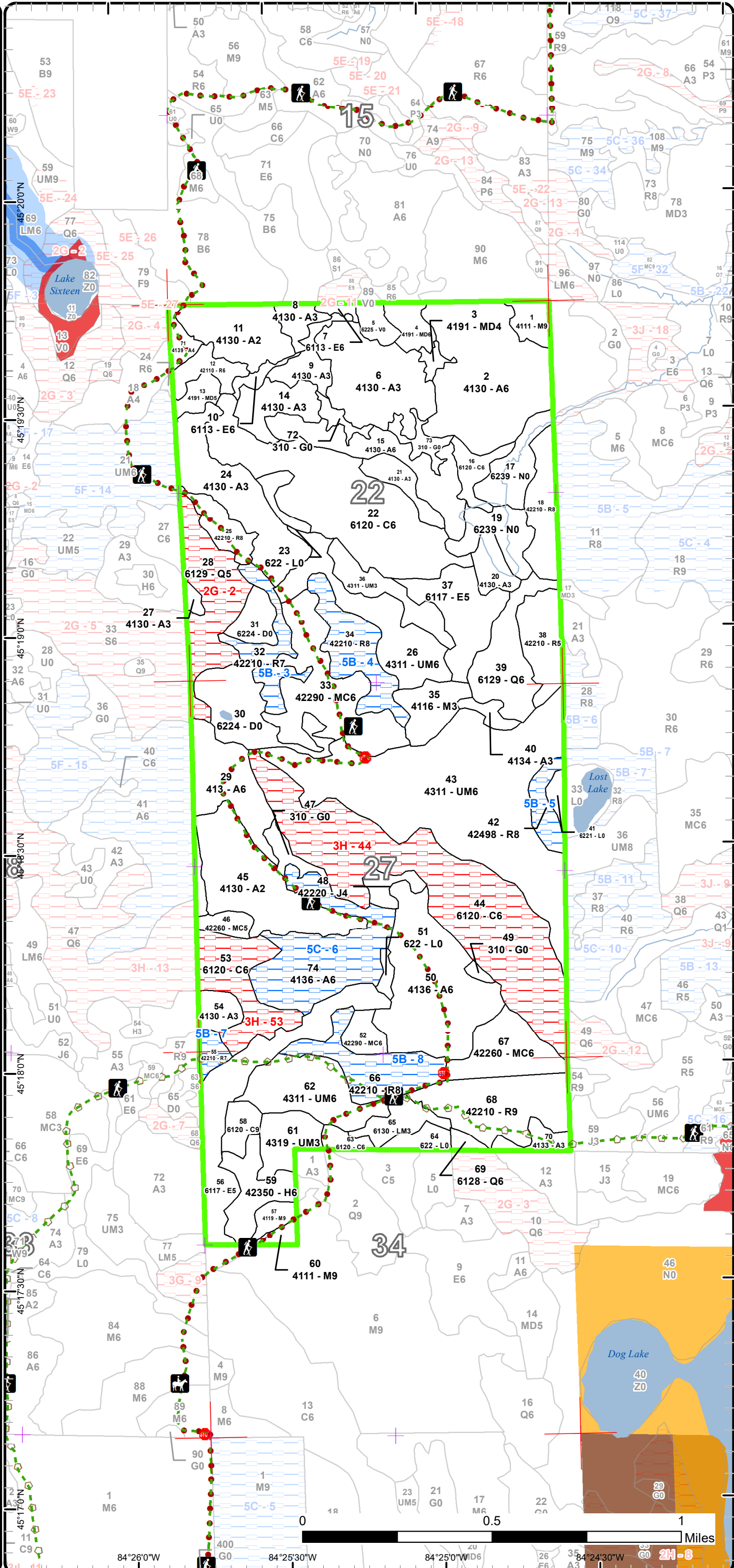


Special Conservation Areas & Site Conditions Map

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- Designated Equestrian Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- - Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Non-Dedicated Natural Areas and National Natural Landmarks
- Wildlife Management Areas



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	157	0	39	13	5	226	0	0	0	0	0	0	0	0	0	0	0	439
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	0	0	4	0	0	153	0	76	0	0	0	233
Hemlock	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	17
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Jack Pine	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	3	0	0	58	0	0	0	60
Lowland Deciduous	0	0	0	0	0	0	0	64	0	5	0	0	0	0	0	0	0	0	69
Lowland Mixed Forest	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Shrub	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Marsh	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Mixed Upland Deciduous	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	6	17
Natural Mixed Pines	0	0	0	0	0	0	7	0	44	0	0	0	0	0	0	0	0	27	78
Northern Hardwood	0	0	0	0	14	0	0	0	0	0	7	8	0	0	0	0	0	0	29
Red Pine	0	0	0	0	9	0	0	17	36	14	49	0	16	0	0	0	0	28	169
Treed Bog	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Upland Mixed Forest	0	0	15	14	29	0	0	0	0	0	0	0	0	0	0	0	0	165	223
Total	101	157	15	63	65	5	250	81	80	23	73	11	169	0	134	0	0	226	1451



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 248
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	176	0	0	0	0	0	0	0	0	176
Lowland Conifers	25	0	0	0	0	0	0	0	0	25
Natural Mixed Pines	0	0	0	0	44	0	0	0	0	44
Northern Hardwood	0	3	0	0	0	0	0	0	0	3
Total	201	3	0	0	44	0	0	0	0	248

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	248	0	0	0	0	0	0	24	0	272
Next Step	0	0	0	0	0	248	0	0	0	248
Total	248	0	0	0	0	248	0	24	0	520



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
2	53004002-Cut	64.5	4130 - Aspen	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Final Harvest with 3-4 retention islands. Also, select 1-2 larger diameter trees of any species per acre to fell and leave to provide drumming log opportunities for Ruffed Grouse.

Specs:
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: A fully to moderately stocked stand of aspen or aspen mixed with other hardwood species will be acceptable in determining regeneration success.

Other Comment:

Proposed Start Date: 10/01/2018

3	53004003-NF	2.6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	52	1-50	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush,burn, or herbicide to maintain openings. Plant hard or soft mast.

Specs:
Next Step
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018

15	53004015-Cut	24.1	4130 - Aspen	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Final Harvest with 2-3 retention islands. Also, select 1-2 larger diameter trees of any species per acre to fell and leave to provide drumming log opportunities for Ruffed Grouse.

Specs:
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: A fully or moderately stocked stand of aspen is desired but a mix of aspen and other species meeting those stocking levels will be acceptable in determining regeneration success.

Other Comment: Make sure recreation spec is added regarding the horse trail/road that will be needed to haul wood out on.

Proposed Start Date: 10/01/2018

29	53004029-Cut	29.1	413 - Aspen	Poletimber Well	50	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Final Harvest with 2-3 retention islands. Also, select 1-2 larger diameter trees of any species per acre to fell and leave to provide drumming log opportunities for Ruffed Grouse.

Specs:
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: A fully or moderately stocked stand of aspen or aspen with a mix of species will be acceptable in determining regeneration success.

Other Comment: Protect trail signs and make sure trail specs are in contract cutting specs.

Proposed Start Date: 10/01/2018



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
33 53004033-Cut	44.4	42290 - Natural Mixed Pine	Poletimber Well	75	81-110	Harvest	Shelterwood	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Selectively mark to cut Red Pine and remove all other species except Oak. Open up areas of predominately Jack Pine to enhance regeneration success. Mark Red Pine to about 40-60 BA.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: Any combination of pine regeneration that reaches a fully or moderately stocked stand will be acceptable.

Other Comment: Protect trail signs and make sure trail specs are included in cutting specs.

Proposed Start Date: 10/01/2018

39 53004039-Cut	24.7	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	133	111-140	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Final harvest with individual mature Red and White Pine relic trees serving as retention and also to provide a seed source.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: A mixture of swamp conifer species meeting a fully or moderately stocked stand will be acceptable in determining regeneration success.

Other Comment:

Proposed Start Date: 10/01/2018

47 53004047-NF	5.0	310 - Herbaceous Openland	Nonstocked	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland			Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush,burn, or herbicide to maintain openings. Plant hard or soft mast.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018

49 53004049-NF	1.4	310 - Herbaceous Openland	Nonstocked	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland			Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush,burn, or herbicide to maintain openings. Plant hard or soft mast.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
50	53004050-Cut	58.4	4136 - Aspen, Mixed Conifer	Poletimber Well	50	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Final Harvest with 3-4 retention islands. Also, select 1-2 larger diameter trees of any species per acre to fell and leave for drumming log opportunities for Ruffed Grouse.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: A fully or moderately stocked stand of aspen or a mix of aspen and other species will be acceptable in determining regeneration success.

Other Comment: Protect trail signs and make sure trail specs are in contract cutting specs.

Proposed Start Date: 10/01/2018

60	53004060-Cut	3.1	4111 - S.Maple, Hard Mast Association	Sawtimber Well	107	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Single tree selection, best tree in place. Mark to cut so that residual BA is down to 80-90 sq. ft. BBD is in the stand so most of the Beech should come out.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: Regeneration representing the current stand with Sugar Maple, Ash, Beech being preferable.

Other Comment:

Proposed Start Date: 10/01/2008

71	53004071-NF	4.2	4139 - Aspen, Mixed Deciduous	Poletimber Poor	46	1-50	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush,burn, or herbicide to maintain openings. Plant hard or soft mast. Protect horse trail.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018

6	53004072-NF	4.7	4130 - Aspen	Sapling Well	3	Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush,burn, or herbicide to maintain openings. Plant hard or soft mast.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
73	53004073-NF	5.7	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush,burn, or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed: 271.9

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 4

Richard McDonald : Examiner

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions					
		With Condition	Not Available		5B	5C	2G	3H	
440	394	46	0	Aspen		46			
6	6	0	0	Bog					
233	95	0	138	Cedar					138
17	17	0	0	Hemlock					
16	16	0	0	Herbaceous Openland					
6	6	0	0	Jack Pine					
60	27	0	33	Lowland Conifers				33	
69	69	0	0	Lowland Deciduous					
10	10	0	0	Lowland Mixed Forest					
16	16	0	0	Lowland Shrub					
29	29	0	0	Marsh					
16	16	0	0	Mixed Upland Deciduous					
79	79	0	0	Natural Mixed Pines					
29	29	0	0	Northern Hardwood					
168	89	79	0	Red Pine	79				
34	34	0	0	Treed Bog					
223	223	0	0	Upland Mixed Forest					
1,450	1,154	125	171	Total Forested Acres	79	46	33		138
	80%	9%	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
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
Richard McDonald : Examiner

Compartment: 4
Year of Entry: 2019

3	Available	5B: Maintain for regeneration purposes	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5B: Maintain for regeneration purposes	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5B: Maintain for regeneration purposes	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 4

Richard McDonald : Examiner

Year of Entry: 2019

44	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	110	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
53	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – 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 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.

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Pigeon River Country Mgt. Unit

Report 7 – Forested Stands

Compartment: 4
Year of Entry: 2019

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4111 - S.Maple, Hard Mast Association	Sawtimber Well	6.9	92	51-80	STAND TO BE MANAGED WITH REST OF LARGER PORTION OF THE STAND IN COMP 5.
2	4130 - Aspen	Poletimber Well	64.5	52	81-110	
3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	2.6	52	1-50	Natural open area that is filling in naturally with trees.
4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.0	50	51-80	Poor quality hardwood
6	4130 - Aspen	Sapling Well	39.4	3	Immature	Cut in February 2015.
7	6113 - Lowland Maple	Poletimber Well	2.1	83	51-80	Low, wet area adjacent to bog
8	4130 - Aspen	Sapling Well	6.3	32	Immature	Part of larger cut in Indian River Area
9	4130 - Aspen	Sapling Well	9.7	26	Immature	
10	6113 - Lowland Maple	Poletimber Well	3.1	87	51-80	
11	4130 - Aspen	Sapling Medium	23.8	2	Immature	Stand cut in 2015-16 as part of Borderline Aspen sale. Regeneration is starting to respond well.
12	42110 - Planted Red Pine	Poletimber Well	8.6	39	81-110	OI Stand Year Origin was 1979. Row spacing seems to be a bit wider than normal. Because of small acreage, combine with nearby Aspen stands for sale purposes.
13	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	5.8	52	81-110	Part of larger stand 21 in compartment 3 and makes more sense to manage with that stand when it comes up in 2024. Areas of rather wet ground throughout this mixed stand.
14	4130 - Aspen	Sapling Well	14.8	4	Immature	Stand cut in 2014 as part of Borderline Aspen sale.
15	4130 - Aspen	Poletimber Well	27.9	51	81-110	
16	6120 - Lowland Cedar	Poletimber Well	8.1	110	141-170	OI Stand Year Origin was 1907. Small cedar stand along beaver marsh.
18	42210 - Natural Red Pine	Sawtimber Medium	17.5	76	51-80	Stand was thinned in 1999. Stand is actually part of a larger stand to the east (stand 11) in compartment 5 and will be managed in the future with that stand.
20	4130 - Aspen	Sapling Well	8.2	27	Immature	OI Stand Year Origin was 1991



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4130 - Aspen	Sapling Well	8.6	27	Immature	OI Stand Year Origin was 1991
6120 - Lowland Cedar	Poletimber Well	76.1	133	141-170	OI Stand Year Origin was 1885. Wet swamp, deer yard.
4130 - Aspen	Sapling Well	36.0	7	51-80	Stand cut as part of Road 3 Aspine (53-018-10-01) bought and cut by Nash. Whole-tree harvest. Stand has regenerated very well with only minor browse impacts to the aspen at this time. Regen survey results below. 06/08/2016 Regen survey - BTA 1714 TPA (8'), QA 757 TPA (8'), RM 457 TPA (6'), RP 71 TPA (1'), BF 71 TPA (2.5').
42210 - Natural Red Pine	Sawtimber Medium	10.0	66	51-80	2012 - this stand had a shelterwood cut done in 2011.
4311 - Pine, Aspen Mix	Poletimber Well	32.2	47	81-110	Mix of Red Pine and aspen primarily. Aspen small for it's age with a mixed size class of pine. Hold for one more cutting period.
4130 - Aspen	Sapling Well	2.0	27	Immature	Part of a larger stand in compartment 3 - stand 29. Continue managing with that stand.
6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	33.0	133	1-50	Wet, low quality, sparse stand
413 - Aspen	Poletimber Well	29.1	50	111-140	
42210 - Natural Red Pine	Sawtimber Poor	16.1	113	1-50	Species removal in 1991. Shelterwood cut.
42290 - Natural Mixed Pine	Poletimber Well	44.4	75	81-110	
42210 - Natural Red Pine	Sawtimber Medium	23.8	96	1-50	This stand had a shelterwood cut done in 2011. There is some advanced red pine regeneration under some pockets of aspen which were left to protect the pine regen.
4116 - Mixed N. Hardwood - Aspen	Sapling Well	13.7	36	1-50	
4311 - Pine, Aspen Mix	Sapling Well	14.9	18	Immature	OI Stand Year Origin was 1999. Some residual large red pine on the north end of the stand.
6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	25.0	66	51-80	POOR QUALITY, WET STAND
42210 - Natural Red Pine	Poletimber Medium	17.3	61	51-80	Stand had species removal in 1999. Left pine and oak. Some areas of good red pine regeneration.
6129 - Mixed Coniferous Lowland Forest	Poletimber Well	24.7	133	111-140	Stand Year Origin was 1885



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4134 - Aspen, Spruce/Fir	Sapling Well	4.1	27	Immature	Stand Year Origin was 1990
42498 - Red Pine (OI)	Sawtimber Medium	9.0	80	1-50	OPIC - FMD: 2012 - This stand had a shelterwood cut in 2011.
4311 - Pine, Aspen Mix	Poletimber Well	132.7	51	51-80	This stand had the aspen and hardwood cut out in 1967 but with fairly heavy red pine residual that has impeded the aspen development so the aspen diameters are not what they might otherwise be if it had been a clearcut. Red Pine has filled in rather well with multiple age classes throughout the stand. BA range varies quite a bit throughout the stand. Allow the aspen to develop more and then a thinning of the pine can be done as well next entry.
6120 - Lowland Cedar	Poletimber Well	110.4	111	81-110	Stand Year Origin was 1906
4130 - Aspen	Sapling Medium	43.4	6	Immature	Stand cut in Blue Dot Aspen (#53-019-10-01), bought and cut by Nash Forest Products. Whole-tree harvest fall of 2012. Canopy calls an estimate at this point. Update following regen survey.
42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	5.2	50	1-50	
42220 - Natural Jack Pine	Poletimber Poor	5.8	50	1-50	Stand Year Origin was 1967. Opening gradually filling in.
4136 - Aspen, Mixed Conifer	Poletimber Well	58.4	50	51-80	Stand Year Origin was 1967
42290 - Natural Mixed Pine	Poletimber Well	6.6	57	81-110	younger, poorer quality pine than what is in adjacent stand
6120 - Lowland Cedar	Poletimber Well	27.3	111	111-140	OI Stand Year Origin was 1906. Wet stand, deer yard.
4130 - Aspen	Sapling Well	7.0	32	Immature	OI Stand Year Origin was 1985.
42210 - Natural Red Pine	Sawtimber Poor	4.7	88	81-110	Stand was thinned in 2000. It was cut again in 2015 with a selection harvest that was more of a shelterwood. Part of larger stand to the west in compartment 3 stand 57. It has always been treated with that YOE.
6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	39.1	61	1-50	Black Ash component has pretty much died out of canopy layer, except for sapling level.
4119 - Mixed Northern Hardwoods	Sawtimber Well	5.0	107	111-140	Formerly part of stand 60. Narrow strip of hardwood north of road and up against Hemlock stand. Never treated with stand 60 because of natural boundary being the road and it being a good place to treat as a retention area for hardwood.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
58	6120 - Lowland Cedar	Sawtimber Well	7.1	112	81-110	Stand Year Origin was 1905. Very rough uneven ground with plenty of water laying under the snow. Not a real desirable stand to cut in.
59	42350 - Upland Hemlock	Poletimber Well	16.8	98	171-200	
60	4111 - S.Maple, Hard Mast Association	Sawtimber Well	3.1	107	111-140	
61	4319 - Mixed Upland Forest	Sapling Well	13.8	27	Immature	Stand Year Origin was 1990
62	4311 - Pine, Aspen Mix	Poletimber Well	29.0	39	81-110	Some mature White Pine. Stand had aspen cut in 1978. Wait for aspen to mature a bit more.
63	6120 - Lowland Cedar	Poletimber Well	4.0	87	81-110	Stand Year Origin was 1930
65	6130 - Fir, Aspen, Maple	Sapling Well	10.0	26	Immature	
66	42210 - Natural Red Pine	Sawtimber Medium	25.0	91	51-80	This stand had a shelterwood cut done in 2011.
67	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	22.4	76	81-110	This stand along with others in the area had the aspen and maple cut out around 1978. waiting for the aspen to develop a little more before doing any further cutting.
68	42210 - Natural Red Pine	Sawtimber Well	35.6	77	51-80	Stand had Aspen and hardwood removed in 1991.
69	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	2.5	105	51-80	Part of a larger poor quality wet swamp that extends into compartment 11 along Dog Lake Road.
70	4133 - Aspen, Mixed Pine	Sapling Well	5.9	26	Immature	Stand Year Origin was 1991. Part of a larger stand (12) in compartment 11.
71	4139 - Aspen, Mixed Deciduous	Poletimber Poor	4.9	46	1-50	Opening that is converting to forested type.
74	4136 - Aspen, Mixed Conifer	Poletimber Well	46.1	50	51-80	Stand Year Origin was 1967. This stand was split from stand 50 to leave and cut next entry in order to bring it more in line with clear cut size constraints in the Concept of Management.



Stand	Cover Type	Acres	Managed Site	General Comments:
5	6225 - Bog	5.6	No	bog
17	6239 - Mixed Emergent Wetland	14.5	No	Beaver marsh
19	6239 - Mixed Emergent Wetland	14.7	No	Old Beaver marsh
23	622 - Lowland Shrub	4.6	No	
30	6224 - Treed Bog	25.3	No	
31	6224 - Treed Bog	8.6	No	
41	6221 - Fen	3.2	No	WEST EDGE OF LOST LAKE - Could be classified as a Fen
47	310 - Herbaceous Openland	5.0	No	
49	310 - Herbaceous Openland	1.4	No	small natural opening along the swamp
51	622 - Lowland Shrub	2.4	No	
64	622 - Lowland Shrub	6.0	No	
72	310 - Herbaceous Openland	3.7	Yes	Opening has been maintained in the past by Afton whitetail club, but hasn't been in a few years.
73	310 - Herbaceous Openland	5.7	Yes	Opening managed in the past by Afton whitetail club but hasn't been in a few years.