



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32069

Entry Year 2017

Acreage: 1,909

County Marquette

Management Area: Ralph Ground Moraine

Revision Date: 2015-07-07

Stand Examiner: Kevin LaBumbard

Legal Description:

T43N R25W Sections 28, 29, 30.

Identified Planning Goals:

To improve the quality and diversity of State forests and wildlife through proper habitat management, while protecting the riparian values of our wetlands and waters.

Soil and topography:

Emmet fine sandy loam, Carbondale and Tawas soils, Rubicon sand, Croswell sand, Nahma muck, Cunard fine sandy loam, Escanaba loamy fine sand, Solona fine sandy loam, Ensley muck, Nadeau-Mancelona complex, Kalkaska sand are the predominant soil types.

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

This compartment lies within a solid block of state land. Nearby private land is developed primarily for private hunting camps.

Unique Natural Features:

Stand 31 is an exceptionally high quality northern hardwood stand.

Archeological, Historical, and Cultural Features:

There are many old sites associated with the early logging days and the area has several old narrow gauge railroad grades and old logging camps.

Special Management Designations or Considerations:

ERA nomination for stand 31.

Watershed and Fisheries Considerations:

Lone Pine Creek.

Wildlife Habitat Considerations:

Compartment 69 is found within the Ralph Ground Moraine Management Area; on Ground Moraines in northern Dickinson and southern Marquette Counties. The dominant Natural Communities are mesic northern forest, poor conifer swamps, and dry mesic northern forest. Major forest cover types include Aspen, Northern Hardwoods, and Mixed Lowland Conifers. Almost every cover type and associated species can be found within the management area including several deer wintering complexes. This management area provides some of the finest grouse and woodcock hunting in the Midwest and this is a wildlife management priority that will continue. Wildlife management issues in the management area are: early successional forest conditions (associated with alder, riparian zones, or forested wetlands); mast (hard and soft); habitat fragmentation; mature forest (upland deciduous, especially aspen and mixed forest with little understory); coarse woody debris; and deer wintering complexes.

The following have been identified as featured species for Ralph Ground Moraine Management Area: American woodcock, black bear, Northern goshawk, ruffed grouse, and whitetail deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured till and glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien Group subgroups below the glacial drift. The PdC could be used for stone. A gravel pit is located two miles to the southwest and potential is good on the upland areas. Abandoned iron mines are located ten miles to the north. State mineral lands immediately north of the compartment (Section 19) are currently leased for metallic mineral exploration and development. There is no economic oil and gas production in the UP.

Vehicle Access:

Is very good via Little West Road.

Survey Needs:

None

Recreational Facilities and Opportunities:

This compartment is heavily hunted for upland game and deer. Snowmobile trail #33 also runs thru it.

Fire Protection:

This compartment has a low fire frequency with good access to most areas.

Additional Compartment Information:

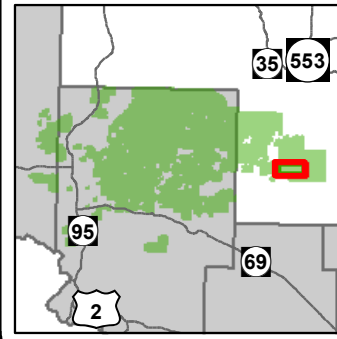
The following reports from the Inventory are attached:

- 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:

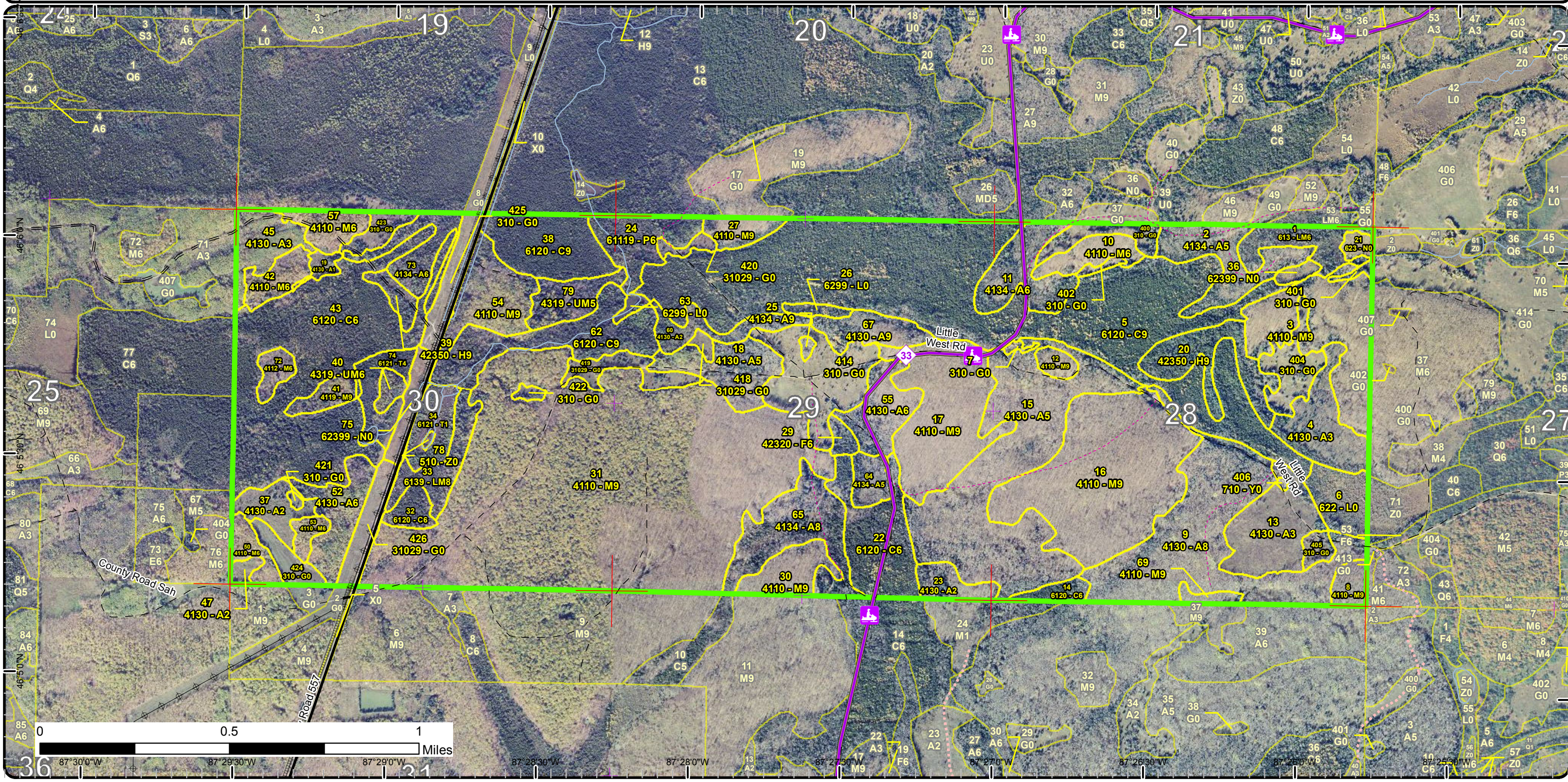
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Stand Boundary Map



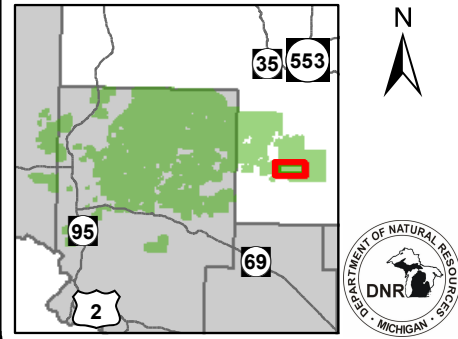
Compartment: 69
 T43N,R25W, Sec. 28, 29, 30
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground Moraine
 YOE: 2017
 Acres: 1909 GIS Calculated
 Examiner: Kevin LaBumbard
 Map Revised: 8/3/2015
 Map Phase: Pre-Review

- ✚ Remonumented Section Corners
- Miris Corners
- Paved Roads
- = Gravel Roads
- - Poor Dirt Roads
- - - Trail (Non-Recreation)
- ⋯ Closed Roads
- 🏠 Snowmobile Trails
- 🏠 Snowmobile Trails
- Rivers
- ⏏ Pipeline
- ⚡ Powerline
- ▭ Stand Boundaries
- Forest Coverture
 - 411 - Northern Hardwood
 - 413 - Aspen
 - 423 - Other Upland Conifers
 - 430 - Upland Mixed Fores
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Coverture
 - 310 - Herbaceous Openland
 - 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil



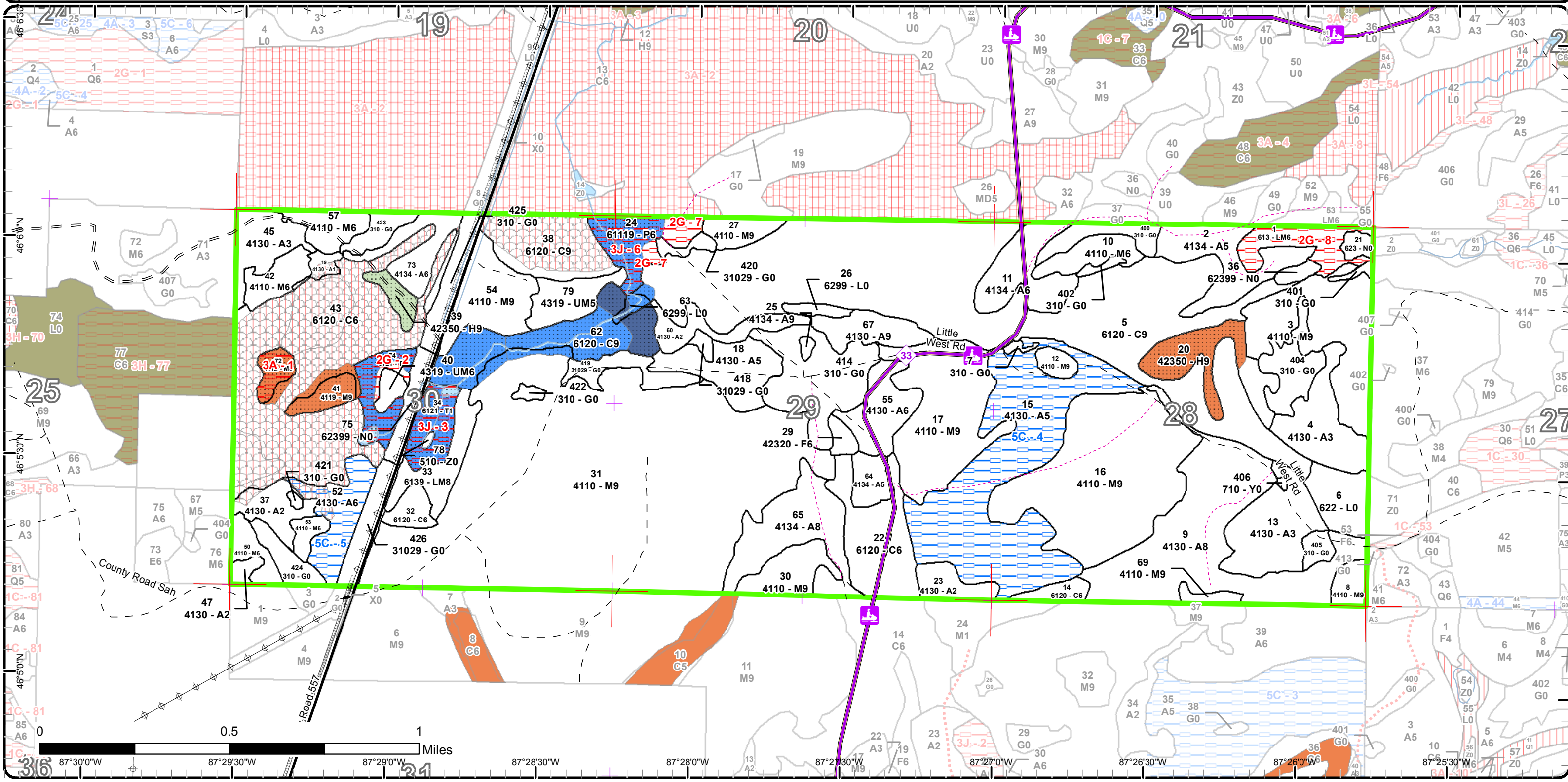
Special Conservation Areas & Site Conditions Map

Compartment: 69
 T43N,R25W, Sec. 28, 29, 30
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground Moraine
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- + Remonumented Section Corners
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- Paved Roads
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- - - Trail (Non-Recreation)
- - - - Closed Roads
- Snowmobile Trails
- Rivers
- Pipeline
- ⊕ Powerline
- Stand Boundaries
- Reviewable SCAs (dq)
- Recommendation
- SCA
- SCA Removal
- Site Condition
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality

- Unavailable Factors**
 - 2G: Too wet (sensitive soils, does not include access issues)
 - 3A: Potential old growth / biodiversity
 - 3J: Water quality / BMPs (stream, river, or lake)
- Special Conservation Areas**
 - Cold Water Streams
 - Cold Water Lakes
 - Spring or Seep
 - Riparian Area
- Other Habitat Area**
 - Recreational/Scenic Value Area



Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit

Compartment 69

Year of Entry 2017

Kevin LaBumbard : Examiner



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	59	65	71	0	108	195	0	0	0	0	0	0	0	0	0	0	0	498
Cedar	0	0	0	0	0	0	0	0	0	0	126	315	30	0	0	0	0	0	471
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	24	30
Herbaceous Openland	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	20
Lowland Mixed Forest	0	0	0	0	0	0	0	0	16	0	16	0	0	0	0	0	0	0	32
Lowland Shrub	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Marsh	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	217	0	0	0	0	0	11	415	643
Sand, Soil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tamarack	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	28
Upland Mixed Forest	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	14	18
Upland Spruce/Fir	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	166	59	65	71	0	112	195	28	20	20	359	315	30	0	0	6	11	453	1910



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 69

Total Compartment Acres: 1,909

Commercial Harvest - 553
 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	54	0	0	0	0	0	0	0	14	68
Northern Hardwood	0	485	0	0	0	0	0	0	0	485
Total	54	485	0	0	0	0	0	0	14	553

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	553	0	0	0	8	0	0	0	0	561
Next Step	0	0	0	0	0	0	561	0	0	561
Total	553	0	0	0	8	0	561	0	0	1122



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
401	32069_OutOfY OE_1-Burn	0.5	310 - Herbaceous Openland	Nonstocked		Unspec ified	Burn	Opening	310 - Herbaceous Openland		Approved Proposal

Habitat Cut: Yes**Site Condition: Too Wet**

Prescription This area has a history of openings management. Work with FMD Fire Specialist on burn plan.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other This stand is part of a larger opening that is being prescribed for a burn. Old next step comments: Monitor results and level of success.

Comment:

Proposed Start Date: 4 /8 /2015

400	32069_OutOfY OE-Burn	7.4	310 - Herbaceous Openland	Nonstocked		Unspec ified	Burn	Opening	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: Yes**Site Condition:**

Prescription This area has a history of openings management. Work with FMD Fire Specialist on burn plan.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other This opening is part of a stand in adjacent compartment that has an approved prescribed burn treatment. Old next step comments: Monitor results and level of success.

Comment:

Proposed Start Date: 4 /8 /2015

3	32069003-Cut	48.1	4110 - Sugar Maple Association	Sawtimber Well	99	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark to residual ba of 80, follow Compleat Marker, retaining most of the basswood and minor species.

Specs:

Next Step

Treatments:

Acceptable sugar maple, basswood.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

10	32069010-Cut	11.2	4110 - Sugar Maple Association	Poletimber Well	99	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark to residual ba of 80, follow Compleat Marker, retaining most of the basswood and minor species

Specs:

Next Step

Treatments:

Acceptable sugar maple

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
17	32069017-Cut	55.4	4110 - Sugar Maple Association	Sawtimber Well	99	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Mark to 80-90 ba following guidelines per Compleat Marker. Expand gap size to 60' diameter. Retain most of the basswood, y. birch, all
Specs: hemlock and pine.

Next Step
Treatments:

Acceptable Sugar maple, basswood.
Regen:

Other Hardwood regeneration doubtful. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

30	32069030-Cut	15.1	4110 - Sugar Maple Association	Sawtimber Well	99	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark to residual ba of 80, follow Compleat Marker, retaining most of the basswood and minor species. Winter harvest-deer wintering complex.
Specs:

Next Step
Treatments:

Acceptable sugar maple, basswood
Regen:

Other Concern regeneration will actually occur. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

31	32069031-Cut	321.7	4110 - Sugar Maple Association	Sawtimber Well	99	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark to 80-90 ba following guidelines per Compleat Marker. Expand gap size to 60' diameter. Retain most of the basswood, y. birch, all
Specs: hemlock, cedar and pine. Require logging equipment to be washed prior to entry to prevent invasives. Marking should be done inhouse.

Next Step
Treatments:

Acceptable Sugar maple, basswood
Regen:

Other Extremely high quality hardwood site...better than Dukes Forest. Recommend this stand for an ERA. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

50	32069050-Cut	8.0	4110 - Sugar Maple Association	Poletimber Well	99	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark to residual ba of 80, follow guidelines of the Compleat Marker, retaining most of the basswood and minor species.
Specs:

Next Step
Treatments:

Acceptable sugar maple, basswood.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2020



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
54	32069054-Cut	25.8	4110 - Sugar Maple Association	Sawtimber Well	99	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Mark to 80-90 ba following guidelines per Compleat Marker. Expand gap size to 60' diameter. Retain most of the basswood, y. birch, all
Specs: hemlock and pine. Favor cherry and retain larger aspen.

Next Step
Treatments:

Acceptable sugar maple, red maple, basswood, yellow birch.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

65	32069065-Cut	36.4	4134 - Aspen, Spruce/Fir	Sawtimber Medium	51	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest retaining hardwoods. Especially basswood. Winter harvest-deer wintering complex.
Specs:

Next Step
Treatments:

Acceptable aspen
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

67	32069067-Cut	14.0	4130 - Aspen	Sawtimber Well	51	81-110	Harvest	Other - Specify	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest of aspen retaining the young clones. Retain most tamarack around the wet area and any cedar if present.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

73	32069073-Cut	17.1	4134 - Aspen, Spruce/Fir	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest of aspen, retaining any cedar. Also retention patches on the east and west sides. Confine harvest to the center high ground ridge.
Specs:

Next Step
Treatments:

Acceptable aspen
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment
 Acreage Proposed: 560.8**

Report 5 – Site Conditions

Gwinn Mgt. Unit

Kevin LaBumbard : Examiner

Compartment: 69

Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2G	3A	3J
		With Condition	Not Available					
498	372	126	0	Aspen	126			
471	471	0	0	Cedar				
30	30	0	0	Hemlock				
128	128	0	0	Herbaceous Openland				
20	0	0	20	Lowland Aspen/Balsam Poplar		6		14
32	16	0	16	Lowland Mixed Forest		16		
21	21	0	0	Lowland Shrub				
16	16	0	0	Marsh				
643	637	0	6	Northern Hardwood			6	
0	0	0	0	Sand, Soil				
28	0	0	28	Tamarack		14		14
18	18	0	0	Upland Mixed Forest				
4	4	0	0	Upland Spruce/Fir				
1	1	0	0	Water				
1,909	1,713	126	69	Total Forested Acres	126	36	6	28
	90%	7%	4%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3A: Potential old growth / biodiversity	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Potential Type 2 old growth.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Gwinn Mgt. Unit

Kevin LaBumbard : Examiner

Compartment: 69

Year of Entry: 2017

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	105	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High site quality conversion to northern hardwoods							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
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
C. 69 removal 1	Other SCA		SCA Removal	25
Comments				
Mostly cedar with some fir and spruce in the open areas. Larger trees along upland. More twisted and small interior of stand. Well-stocked but not thick. Not old growth.				
C. 69 removal 2	Other SCA		SCA Removal	38
Comments				
Cedar big along high ground edge. Mostly thickly stocked smaller trees of poorer timber quality interior of stand. Not old growth.				
C. 69 removal 3	Other SCA		SCA Removal	58
Comments				
Nice cedar west and south of stand 41. Sparse SE part of stand. Open understory and large size especially along upland edges. Not old growth.				
C. 69 removal 4	Other SCA		SCA Removal	17
Comments				
This a mix of cedar and white birch scattered over alder. Some areas are P type but overall stand is cedar due to cedar mixed throughout stand and patches of pure cedar. Birch is dying back and stand is converting. Not old growth.				
C. 69 removal 5	Other SCA		SCA Removal	8
Comments				
Mix of Cedar and P type. Patches of thick cedar. Sparse stand overall with alder undersrory thick. Trees small only 2-3 stick all species. Not old growth; BMP's would be followed.				
Hardwood island 1	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	7
Comments				
Mostly poor timber quality. Island in a cedar swamp 1/4 mile from nearest accessible high ground. Mostly red maple type with frost cracks and other defects. It appears substantial fir has died in the last 20 years and left the stand poorly stocked.				
Hardwood island 2	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	10
Comments				
Island in a cedar swamp 5-10 chains from nearest high ground. Sugar maple in the center with red maple and yellow birch on the edge. Fully stocked but some sparse areas from past fir mortality. Large patch of hemlock 3 acres mostly NW part of stand.				
KC Hemlock visual	Visual Management Area	Recreational/Scenic Value Area	Proposed SCA	6
Comments				
Narrow stand of mostly hemlock along road. Some hardwood mixed in mostly larger and low timber quality. Very nice scenic stand at entrance of busy woods road. Also stream influence. Hemlock looks healthy.				
Lone Pine Creek brush	Spring-Seeps, Riparian Areas	Riparian Area	Proposed SCA	2
Comments				
Lowland brush along lone pine creek. Riparian values protected with biodiversity stewardship coding for this stand.				
Lone Pine Creek cedar	Spring-Seeps, Riparian Areas	Spring Seep	Proposed SCA	9
Comments				
Mostly cedar south and becomes more P or Q north. Bigger cedar but not overstocked. Lone pine creek buffer stand. Riparian values important in this biodiversity maintenance stand.				



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
Lone Pine Creek deciduous	Spring-Seeps, Riparian Areas	Riparian Area	Proposed SCA	19
Comments				
Mix of ash and cedar. Patches of thick cedar. Also areas of pure black ash. Ash is mostly small 2-3 sticks. Stream buffer stand is entirely lowland with not much merchantable timber. Riparian values protected with the biodiversity stewardship stand.				
Lone Pine Creek N	Spring-Seeps, Riparian Areas	Riparian Area	Proposed SCA	14
Comments				
Blow down areas. Birch dying and being replaced by cedar. Cedar mostly small but well stocked. Lone pine creek tributary is about 4 foot wide here. Mix of P,Q, and C probably converting to C. High riparian value stand.				
Lone Pine Creek SE	Spring-Seeps, Riparian Areas	Riparian Area	Proposed SCA	14
Comments				
some small tamarack and spruce seeding in 2" dbh. Alder too and marsh grass. Riparian area with pond and lone pine creek protected with biodiversity stewardship stand.				
Lone Pine Creek SW	Spring-Seeps, Riparian Areas	Riparian Area	Proposed SCA	12
Comments				
seeding in with small conifers mostly tamarack and spruce. Alder scattered, not thick. A few small pole size cedar, tamarack, fir and spruce.. Riparian corridor of lone pine creek protected by the biodiversity maintenance designation.				
Lone Pine Creek travel	Spring-Seeps, Riparian Areas	Riparian Area	Proposed SCA	14
Comments				
This stand is mostly C9 with some H9 on the upland edges and Q6 scattered in the interior. The hardwood is mostly white birch, yellow birch and red maple and is mixed in the hemlock areas mainly. Also there are a few scattered big white pine.				
Watson cut across hemlock	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	18
Comments				
Nice looking stand of big hemlock. Poor timber quality and hemlock not used for age because of that. The hemlock seems healthy although some porky damage in stand. Stand has some low area but mostly high ground and comes up into hardwood stand east.				



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	613 - Lowland Mixed Forest	Poletimber Well	15.9	95	51-80	OPIC - FMD: Q6 but parts of stand are Q5 or Q4 Also E and P type. Patches of well-stocked cedar mixed with P or Q type small and alder. Ash is 1-stick mostly with alder and red maple thick understory. Overall trees are small. Somewhat sparse in poles but seedlings 10 feet tall of red maple, ash.
2	4134 - Aspen, Spruce/Fir	Poletimber Medium	26.9	29	Immature	OPIC - FMD: Cut 1986, A3 4" DBH, Some conifer and cherry mixed. Some aspen is 1 or 2 sticks almost pole size overall. Sparse areas around G on map have more fir or cherry seeding in. Recent beaver activity along south edge has made that area mostly F2 with some maple smaller size than aspen north. Overall is diverse and should be fully stocked stand when next harvest occurs. 2015-areas of semi open u on frindge, larger aspen on edges.
3	4110 - Sugar Maple Association	Sawtimber Well	48.1	99	111-140	OPIC - FMD: Cut 2002 Under permit# 028-97-01. Nice patch of hemlock and cedar west edge. Good quality mostly sugar and basswood. 2015-numerous white spruce less than 3' tall west side. Ironwood saps heavier moving east. Lots of 1' browsed maple seedlings.
4	4130 - Aspen	Sapling Well	25.4	13	Immature	OPIC - FMD: Ccut permit # 028-97-01. Patches of F3 and some small hardwood residual left but mostly A3 1" dbh. 2015-Nice, high quality aspen doing very well.
5	6120 - Lowland Cedar	Sawtimber Well	237.0	101	111-140	OPIC - FMD: Mix of mostly smaller cedar with some areas of larger cedar. Well-stocked but not real thick in most areas. Understory of fir and hardwood in some areas. 2015- large stand, variable, deer yard.
8	4110 - Sugar Maple Association	Sawtimber Well	6.7	99	81-110	OPIC - FMD: cut in 1985. Ready for another light thinning. High quality mostly but some butt scars from possible old fire. Mostly ironwood in understory. Still crown room in areas so just a light thinning needed. ***Timber sale #024-07 "Camp 19 Sale" - cut December, 2009.
9	4130 - Aspen	Sawtimber Medium	88.9	43	51-80	OPIC - FMD: Hunter walking trail seeded and mowed occasionally. Aspen is 4-5 stick with some larger and smaller 6-8"dbh average. Self-thinning phase now with some sparse areas. Scattered softwood and hardwood. 2015-Aspen is breaking up, 10-11 inch dbh. 43 years old but should be harvested along with the fir. Retain the sugar maple, cherry.
10	4110 - Sugar Maple Association	Poletimber Well	11.3	99	111-140	OPIC - FMD: Cut in 1999, Permit #26-97-1. Some areas have high BA but overall about 100 BA. Not quite ready for thin. 3-6 stick pole size nice stand. 2015-stand includes small aspen pole stand of 6" 3-4 stick poles. Narrow ridge of hardwood. Possible combine with stand 12 for treatment.
11	4134 - Aspen, Spruce/Fir	Poletimber Well	23.5	18	Immature	OPIC - FMD: F4M4F2, Cut 1999, Permit #26-97-1.Patches of A3 1" dbh but mostly F seeding in. Residual F patches and some maple scattered. Still regenerating. 2015-Spruce and fir poles over 2-3" aspen-aspen should be the featured stand. F4A3.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
12	4110 - Sugar Maple Association	Sawtimber Well	4.4	99	81-110	OPIC - FMD: Cut permit #025-97-01. Good quality small stand. 2015- Small island of fair quality hardwoods cut in 1997. Heavy sedge. Should thin the maple, leave basswood, cut fir. Possibly combine with stand 10 for treatment.
13	4130 - Aspen	Sapling Well	31.0	5	Immature	OPIC - FMD: Stand mature and should be cut. Some mortality. Hazel understory. Will protect dead and down wood during harvest. We will have a summer restriction here. ***Timber sale #024-07 "Camp 19 Sale" - cut December, 2009. Left leave trees along road, and larger aspen along sale edge. 2015-Well stocked A3 with a few conifers and cherry.
14	6120 - Lowland Cedar	Poletimber Well	5.5	95	111-140	OPIC - FMD: Small patch of cedar very well-stocked. Heavy wildlife use in this stand mid winter 2005. One very large, burned 3 foot diameter mostly rotten cedar in the stand is possibly ancestor to all others here. All wildlife trails lead to this tree, another mystery of nature.
15	4130 - Aspen	Poletimber Medium	105.1	50	81-110	OPIC - FMD: 4-5 stick aspen mostly well-stocked. Merchantable but young. Areas of 2-3 stick. Some areas with raspberry and some hazel understory. Scattered fir and cherry. Also spruce, basswood and sugar maple in stand. 2015- High quality site with lots of leeks. Aspen in decline, stand breaking up. Very good quality 1-4" sugar maple saplings in the understory. Fire scarring on the remnant sugar maple with the aspen established after the fire. The stand is now converting back to the northern hardwood type.
16	4110 - Sugar Maple Association	Sawtimber Well	96.3	99	81-110	OPIC - FMD: Cut permit # 36-00-01. About 2001. Good quality stand with 2' ironwood understory. Some maple coming in some areas. Stand is about 60% sugar and 40% basswood. Even age pole stand and small log size mostly.
17	4110 - Sugar Maple Association	Sawtimber Well	55.4	99	111-140	OPIC - FMD: cut permit #025-97-01 in 2000. Good quality stand. Some tight spots but not quite ready for another thinning. Mostly evenage 8-12" dbh. 1/3 basswood the rest mostly sugar maple. 20105-moving toward uneven-aged. Variable ba from 90-130. Regeneration after selective harvest doubtful.
18	4130 - Aspen	Poletimber Medium	22.7	26	51-80	OPIC - FMD: Cut permit #8-87-01. Just starting to be merchantable. 4-5 stick average. North of road fir is mixed in and south hardwood mixed in and is larger there due to better soil. 2015-Aspen healthy over excellent hardwood regeneration. Let this stand convert to the northern hardwood type.
19	4130 - Aspen	Sapling Poor	3.4	6	Immature	OPIC - FMD: This was half the original stand left last time. Aspen is large. Some blowdown has occurred in the wetter areas. Some swales here will have to be watched for excessive rutting during harvest. All dead trees will be left. There is apparently adequate dead wood currently on site and it will be retained during and after harvest. ***Stand harvested as "Hilltop Sale" # 022-07 - cut September, 2009. Several hardwood trees were left as retention, as well as some larger aspen along edge of cut. 2015-aspen doing well.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	42350 - Upland Hemlock	Sawtimber Well	24.4	125	111-140	OPIC - FMD: Nice looking stand of big hemlock. Poor timber quality and hemlock not used for age because of that. The hemlock seems healthy although some porcky damage in stand. Stand has some low area but mostly high ground and comes up into hardwood stand east. Some hemlock over 20" dbh. Recommend putting into biodiversity stewardship. because of rarity of this type in this area. 2015-recommend Type 2 old growth.
22	6120 - Lowland Cedar	Poletimber Well	33.5	101	111-140	OPIC - FMD: Well-stocked cedar. Mix of large and small trees. 2015- cedar with associated swamp conifers.
23	4130 - Aspen	Sapling Medium	9.5	7	1-50	OPIC - FMD: combined with stand 17 compartment 70 sale in 2005 contract 32-014-05-01 logger LaFleur cut permit 14-05-1 in 2008 winter. Some damage to hardwood. 2015-Fully stocked A3 under M7. Aspen the featured stand.
24	61119 - Lowland Aspen/Balsam Poplar (OI)	Poletimber Well	20.0	81	81-110	OPIC - FMD: Blow down areas. Birch dying and being replaced by cedar. Cedar mostly small but well stocked. Lone pine creek tributary is about 4 foot wide here. Mix of P,Q, and C probably converting to C. High riparian value stand.
25	4134 - Aspen, Spruce/Fir	Sawtimber Well	1.2	52	81-110	OPIC - FMD: Small island in opening. Probably high wildlife value. Just started to become merchantable. 2015 - retain
27	4110 - Sugar Maple Association	Sawtimber Well	8.2	99	81-110	OPIC - FMD: Cut in 1999 , Permit #26-97-1. Some tight areas in about 1/3 the stand, the rest is ok. Not enough to justify another thinning yet. 2015- good quality hardwoods, manage with stand 19 to the north.
29	42320 - Upland Spruce	Poletimber Well	3.6	47	81-110	OPIC - FMD: edge of aspen about same age 3-4 stick spruce/fir average with some smaller and some larger. 2015-fire origin F6A4. No sign of budworm but could harvest.
30	4110 - Sugar Maple Association	Sawtimber Well	15.1	99	111-140	OPIC - FMD: Cut permit #024-97-01. Some thick areas yet but not worth thinning again yet. Good quality 2/3 maple and about 1/3 basswood. No regeneration except Ironwood. 2015-high site index ready to cut again but sugar maple regeneration doubtful. Browsing on ironwood!
31	4110 - Sugar Maple Association	Sawtimber Well	321.7	99	111-140	OPIC - FMD: Cut permit #024-97-01in 2000. Good quality mostly sawlog size stand. About 1/3 basswood and 2/3 sugar maple. Some areas of pole size. 2015-Higher percentage of sugar maple due to last harvest. Retain most of the basswood this cutting for species diversity.
32	6120 - Lowland Cedar	Poletimber Well	6.8	101	81-110	OPIC - FMD: Mostly cedar south and becomes more P or Q north. Bigger cedar crooked but not overstocked. 2015-deer yard
33	6139 - Mixed Lowland Forest	Sawtimber Medium	15.7	73	81-110	OPIC - FMD: Small 2-3 stick trees. Somewhat sparse in areas with alder but overall adequately stocked. Factor limit too wet.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	6121 - Tamarack	Sapling Poor	13.7	65	1-50	OPIC - FMD: some small tamarack and spruce seeding in 2" dbh. Alder too and marsh grass. Riparian area with pond and lone pine creek protected with biodiversity stewardship stand. 2015-agreed.
37	4130 - Aspen	Sapling Medium	12.1	6	Immature	OPIC - FMD: Mix of Fir and Aspen. This stand looks like it can hold and there are areas of sight under-mature aspen but most is mature. Fir and spruce larger than average. Fades to ecotone east along opening and becomes wetter.*** Stand harvested as "Food Plot Sale" # 023-07 - cut September, 2009. 2015-regenerating to aspen...a little thin in areas so A2.
38	6120 - Lowland Cedar	Sawtimber Well	30.0	113	111-140	OPIC - FMD: Mostly cedar with some fir and spruce in the open areas. Larger trees along upland. More twisted and small interior of stand. Well-stocked but not thick. Spruce seeding into open areas of stand. 2015 Areas of dense tag alder in the understory. Deer yard. Large cedar stand with mixed swamp conifers and lowland hardwoods. Areas of dense tag alder in the understory, especially along Co. Rd. 557. Deer yard.
39	42350 - Upland Hemlock	Sawtimber Well	5.8	141	81-110	OPIC - FMD: Narrow stand of mostly hemlock along road. Some hardwood mixed in mostly larger and low timber quality. Very nice scenic stand at entrance of busy woods road. Also stream influence. Hemlock looks healthy. 2015-no changes.
40	4319 - Mixed Upland Forest	Poletimber Well	4.0	79	111-140	OPIC - FMD: Mostly white birch 6-10" dbh over thick fir 2-8". Aspen over about 1/3 the stand scattered so if clearcut only 1/2 the stand will re-stock to aspen. Birch not dying although is mature. Would need to freeze in a road and cut during winter. Stand may be A or F after harvest. Possible to leave seed trees of white birch although scarification is difficult in winter and would be impossible to get in scarification equipment in snow free times. Prescription is to leave patches of advanced fir regeneration and clearcut. Birch may reseed in areas but most of stand will be F or A after harvest. We will leave all dead trees during harvest and also insure adequate unmerchantable dead wood left on site. Many large pine stumps on site from original harvest although no pine is here now. We will hold this stand 10 years until 2017 to balance out size and ages of stands west of the road. 2015-stand is small in acreage, and quite steep. Access difficult for low volume. Birch still looking good with fir dying out. Factor limit.
41	4119 - Mixed Northern Hardwoods	Sawtimber Well	7.2	99	81-110	OPIC - FMD: Island in a cedar swamp 5-10 chains from nearest high ground. Sugar maple in the center with red maple and yellow birch on the edge. Fully stocked but some sparse areas from past fir mortality. Large patch of hemlock 3 acres mostly NW part of stand and fades down to cedar. Upland larger cedar throughout stand. Probably 1/2 of stand lower than 90 sq ft BA. Timber quality poor but soil is good and potential is there. Many den trees and good conifer mix along with untouched larger size make wildlife values high in this stand. Remoteness as well lends this stand high value for biodiversity stewardship. Existing old growth in upland cedar and hemlock. Even though stand is separate from riparian corridors, this stand is a good candidate for potential old growth designation for the above reasons. 2015- Legacy YP. Nominate for Type 2 old growth.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	4110 - Sugar Maple Association	Poletimber Well	10.2	99	51-80	OPIC - FMD: This is a ridge that contains hardwood of fair to good quality. Aspen, spruce and fir is mixed in and will be removed in a harvest to convert the stand totally to hardwood management. Stand may not need marking but basal area may be reduced adequately by removing aspen and softwoods. May mark if time permits. Some blowdown has occurred in the large aspen especially adjacent to the clearcut west and north. ***Stand harvested as "Hilltop Sale" #022-07 - cut September, 2009. 2015-trace of yellow birch. Heavy ironwood regeneration.
43	6120 - Lowland Cedar	Poletimber Well	120.2	91	111-140	OPIC - FMD: This a mix of cedar and white birch scattered over alder. Some areas are P type but overall stand is cedar due to cedar mixed throughout stand and patches of pure cedar. Birch is dying back and so stand is converting to more pure cedar but sparse in areas. Cedar is mostly small and twisted but some areas have high BA larger trees. Alder thick and tall 6-8' in most of stand.
45	4130 - Aspen	Sapling Well	16.6	14	Immature	OPIC - FMD: stand was cut in 2001 , permit #23-97-01. Some residual hardwood left. Some of that has blown down. 2015- Most of stand is well-stocked aspen 2" 30-40' tall.
47	4130 - Aspen	Sapling Medium	2.9	6	Immature	Stand thinned as "Food Plot Sale" #023-07 in Sept., 2009. 2015-A3 under scattered sugar maple saplings.
50	4110 - Sugar Maple Association	Poletimber Well	8.0	99	111-140	OPIC - FMD: High quality small stand ready to thin. Some areas not much BA over 90 sq ft but most of stand is ready for thinning. ***Stand thinned as "Food Plot Sale" #023-07 in Sept., 2009. 2015-stand ready to cut again with some areas 120-130 ba. Sedge increasing. Understory of 2"-3" sapling sugar maple saplings. Surprisingly low stocking of ironwood seedlings and saps. Harvest with adjacent stand 76 cmpt 64 fiscal year 2011.
52	4130 - Aspen	Poletimber Well	20.8	53	81-110	OPIC - FMD: 3-4 stick average well-stocked aspen. Some smaller only 4" dbh yet. Some fir and hardwood mixed in. 2015- Mixed quaking and big-tooth aspen over high quality sugar maple saps, poles, and an occasional large sawtimber tree. This is a high quality hardwood site with leeks and leatherwood. Allow conversion to northern hardwoods. North couple acres consists of old stand 70. Soil and site change here, fir dead and down, more red maple, white birch..an M5B5F4A4F2M1 stand.
53	4110 - Sugar Maple Association	Poletimber Well	4.6	99	81-110	OPIC - FMD: Overall good quality poles but quite a bit of sprout origin maple and basswood. Ready for thin and should concentrate on promoting single stem quality trees, removing twins and clumps where possible while maintaining BA 70 sq ft. Will insure adequate dead wood and all dead trees will remain at harvest. ***Stand thinned as "Food Plot Sale" #023-07 - cut 9/09. 2015-trace of elm, wb. Starting to get a heavy sedge layer...did not see any small seedlings on the floor. The sugar maple understory consists of 2"-3" saplings.
54	4110 - Sugar Maple Association	Sawtimber Well	25.8	99	111-140	OPIC - FMD: Part of this stand is an old wildlife cut that has regenerated to sprout origin trees and cherry. Most of that area moved into another stand(79). Center of stand good quality hardwood thinned last time. Stand is now combined and can be all thinned together next time. 2015-doubles and triples with an occasional basswood. Select cut hardwoods retaining minor species.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	4130 - Aspen	Poletimber Well	19.1	47	51-80	OPIC - FMD: Smaller trees 4-5 stick well-stocked mostly. Thick hardwood 3-5" dbh under east, F1 west. 2015-Quaking aspen on the lower portion, big-tooth on the hill side. Trace of elm. Conifers are associated with the quaking aspen while the big-tooth was relative free of conifers. No budworm seen. Hold the stand 10 years before harvest.
57	4110 - Sugar Maple Association	Poletimber Well	10.7	178	81-110	OPIC - FMD: High quality pole stand. Stand harvested as "Hilltop Sale" #022-07 - cut September, 2009. Doing well.
60	4130 - Aspen	Sapling Medium	13.0	28	1-50	OPIC - FMD: Aspen cut permit 8-87-01. 2" dbh average well-stocked. F2 west and wet in spots. Good conifer component throughout. 2015-stand starting to transition to a pole stand.
62	6120 - Lowland Cedar	Sawtimber Well	37.9	101	111-140	OPIC - FMD: Mostly cedar south and becomes more P or Q north. Bigger cedar but not overstocked. Lone pine creek buffer stand. Riparian values important in this stand.
64	4134 - Aspen, Spruce/Fir	Poletimber Medium	8.2	28	Immature	OPIC - FMD: A3 2" dbh mostly well-stocked but some open areas although stand is considered fully stocked. Some sp/fir component seeding in especially in the semi-open areas. Cut permit 7-87-01. 2015-3-5" aspen transitioning to a pole stand. A4A3F4F2
65	4134 - Aspen, Spruce/Fir	Sawtimber Medium	36.4	51	51-80	OPIC - FMD: 3-5 stick. Just coming into merchantability. Some sparse areas. Thick hazel and red maple coming in spots under. Some areas only A5 and seem to be wetter soil. Some willow. Mostly north are the sparse areas.
67	4130 - Aspen	Sawtimber Well	14.0	51	81-110	2015-Tamarack along SE edge turns to narrow band of 3-4" aspen saps...exclude these areas from the sale. Stand is quite variable and made up of several clones of aspen. Final harvest retaining young clones, and cedar if present.
69	4110 - Sugar Maple Association	Sawtimber Well	3.5	99	81-110	OPIC - FMD: A small stand ready for another thinning. Good potential but some large trees have poor timber quality. A lot of basswood. Some big aspen to come out. ***T. sale #024-07 "Camp 19 Sale" - cut December, 2009.
72	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.0	99	111-140	OPIC - FMD: Mostly poor timber quality. Island in a cedar swamp 1/4 mile from nearest accessible high ground. Mostly red maple type with frost cracks and other defects. It appears substantial fir has died in the last 20 years and left the stand poorly stocked in the overstory in many areas. Thick 10' red maple has regenerated in these areas. A few higher BA spots but most of stand is less than 90 sq. ft. BA. The remoteness combined with the high quality den and other wildlife trees and being high ground adjacent to a riparian corridor lend this stand to biodiversity maintenance area. 2015 SCA.
73	4134 - Aspen, Spruce/Fir	Poletimber Well	17.1	55	81-110	OPIC - FMD: This stand is mostly A6. Aspen is 4-6 stick just coming into merchantability. Lots of fir in the understory. 2015-Lots of fir dead and down. Leave buffer both east and west of the main ridge, staying on the upland. Retain the entire western peninsula for retention and as a riparian/wildlife corridor.

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Gwinn Mgt. Unit

Report 8 – Forested Stands

Compartment: 69
Year of Entry: 2017



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
74	6121 - Tamarack	Poletimber Poor	13.8	65	1-50	OPIC - FMD: seeding in with small conifers mostly tamarack and spruce. Alder scattered, not thick. A few small pole size cedar, tamarack, fir and spruce.. Riparian corridor of lone pine creek protected by the biodiversity maintenance designation.
79	4319 - Mixed Upland Forest	Poletimber Medium	13.9	99	51-80	OPIC - FMD: This is an old wildlife cut in late 70's where all hardwood was harvested except some larger yellow birch and sugar maple. Also white pine and hemlock were left. Understory M3F2 is close to 1-2 stick and well-stocked. Mostly that is sprout origin and low quality. Stand has good potential but will take two or more thinnings to reach high timber quality production. Good wildlife area. First thinning will be in 10 or 20 years. Part of stand may be better under evenage management especially NE where it is more fir and w.birch mixed. 2015- harvest with stand 54 removing fir and a limited amount of hardwoods. Budworm just starting here.



Stand	Cover Type	Acres	Managed Site	General Comments:
6	622 - Lowland Shrub	15.6	No	OPIC - FMD: Mix of mostly smaller cedar with some areas of larger cedar. Well-stocked but not real thick in most areas. Understory of fir and hardwood in some areas. 2015-cedar dead from beaver flooding...willow and whatever wetland grasses filling in.
7	310 - Herbaceous Openland	1.0	No	OPIC - FMD: 4-5 stick aspen mostly well-stocked. Merchantable but young. Areas of 2-3 stick. Some areas with raspberry and some hazel understory. Scattered fir and cherry. Also spruce, basswood and sugar maple in stand.
21	623 - Emergent Wetland	3.3	No	OPIC - FMD: Q6 but parts of stand are Q5 or Q4 Also E and P type. Patches of well-stocked cedar mixed with P or Q type small and alder. Ash is 1-stick mostly with alder and red maple thick understory. Overall trees are small. Somewhat sparse in poles but seedlings 10 feet tall of red maple, ash. 2015 beaver flooding that drained.
26	6299 - Lowland Shrub (OI)	3.2	No	OPIC - FMD: Mostly alder. A very few scattered small lowland conifers.
36	62399 - Marsh (OI)	2.9	No	OPIC - FMD: This is mostly drained beaver pond with recent drowned and older drowned trees. Non-stocked riparian area with a few scattered cedar that escaped drowning.
63	6299 - Lowland Shrub (OI)	2.1	No	OPIC - FMD: Lowland brush along lone pine creek. Riparian values protected with biodiversity stewardship coding for this stand.
75	62399 - Marsh (OI)	9.6	No	OPIC - FMD: Power line row next to 557. This part is wet and kept free of trees and shrubs by the power line owner.
78	510- Water (OI)	0.5	No	OPIC - FMD: Location Section 30-NESE. Small pond does not appear to be beaver origin. Pond on lone pine creek possibly headwater spring.
400	310 - Herbaceous Openland	9.5	No	
401	310 - Herbaceous Openland	1.5	No	
402	310 - Herbaceous Openland	1.7	No	
404	310 - Herbaceous Openland	14.9	No	
405	310 - Herbaceous Openland	4.1	No	
406	710 - Sand, Soil	0.5	No	Old gravel pit filling in.
414	310 - Herbaceous Openland	36.8	No	OPIC - FMD: some oak planted here in past but poor survival.



Stand	Cover Type	Acres	Managed Site	General Comments:
418	31029 - Grass (OI)	2.0	No	
419	31029 - Grass (OI)	10.9	No	
420	31029 - Grass (OI)	3.3	No	
421	310 - Herbaceous Openland	0.8	No	
422	310 - Herbaceous Openland	1.7	No	
423	310 - Herbaceous Openland	6.9	No	
424	310 - Herbaceous Openland	8.3	No	
425	310 - Herbaceous Openland	12.7	No	Mostly grass under powerline.
426	31029 - Grass (OI)	12.2	No	Under powerline.