



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32067

Entry Year 2016

Acreage: 1892.15700000

County Marquette

Management Area: Ralph Ground Moraine

Revision Date: 2014-09-16

Stand Examiner: Ben Travis

Legal Description:

T43N, R25W, Sections 16-18

Identified Planning Goals:

Planning will focus on timber management, forest recreation, fisheries management and wildlife habitat management. Public access, forest road maintenance, trespass incidents, forest regeneration, forest health, forest fire management, stream crossings, water quality and any resource damage are critical assessments considered during the forest mapping and inventory process.

Soil and topography:

Lowland soils include: Tawas-Deford mucks; Carbondale and Tawas soils; Histosols and Aquents, ponded; Greenwood and Dawson soils; and Kinross mucky peat. Upland soils include: Croswell sand; Au-Gres-Deford complex; Au-Gres sand; Paquin-Finch sands; Emmet-Escanaba complex; Rubicon sand; Sayner-Rubicon complex; Nadeau-Mancelona complex; Paquin sand; and Kalksaka sand. Terrian is gently rolling to flat with a few low banks above waterways.

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

All ownership within this compartment is state except for a single forty in section 18. The compartment is adjacent to a very large block of state ownership to the north, east and south. A large area of non-CFR Plum Creek lands is adjacent to the west edge of this compartment. These Plum Creek lands are leased by private parties and several rustic camps are located on these lands.

Unique Natural Features:

Rich conifer swamp found in Section 16.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Compartment 67 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 Chain Lakes Management Area: American woodcock, black bear, Northern goshawk, ruffed grouse, and whitetail deer.

Mineral Resource and Development Concerns and/or Restrictions

Sections 16 - 18, T43N-R25W, Marquette County

Surface sediments consist of medium-textured till (drumlin area) and glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien (PdC) Group

subcrops below the glacial drift. The PdC could be used for stone. Gravel pits are located to the west and potential is good on the upland areas. Abandoned iron mines are located nine miles to the north. Section 18 is leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Paved and plowed County Road 557 passes through the compartment. Leighton Road, a DNR forest road provides access into section 18. This road is gated once it crosses onto Plum Creek lands. Leighton road provides important access to these Plum Creek lands and camps. Several DNR forest roads provide access to the east of County Road 557 and off DNR Little West Road. Streams and lowlands prevent vehicle access to certain portions of this compartment.

Survey Needs:

None known.

Recreational Facilities and Opportunities:

Hunting, fishing, berry picking, mushroom picking, trapping, off-road vehicle usage and snowmobiling are the primary undeveloped recreation uses. There are no dedicated recreation facilities in this compartment.

Fire Protection:

Additional Compartment Information:

A major powerline right-of-way follows the west side of County Road 557.

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**

Compartment: 067
 T43N R25W Sec. 16,17,18
 County: Marquette
 Unit: Gwinn
 Management Area: Ralph Ground Moraine
 YOE: 2016
 Acres: 1,892 GIS Calculated
 Examiner: Ben Travis
 Map Revised: 09/19/2014
 Map Phase: Pre-Review

Cover Type & Treatment Map

Legend

- ⊕ Remonumented Section Corners
- ⊕ Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- ⊗ Gate
- Pipeline
- Powerline
- Stream
- Intermittent Stream
- State Forest Land
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Prescribed Burn
- Other Treatment - See Comments

Forest Stands

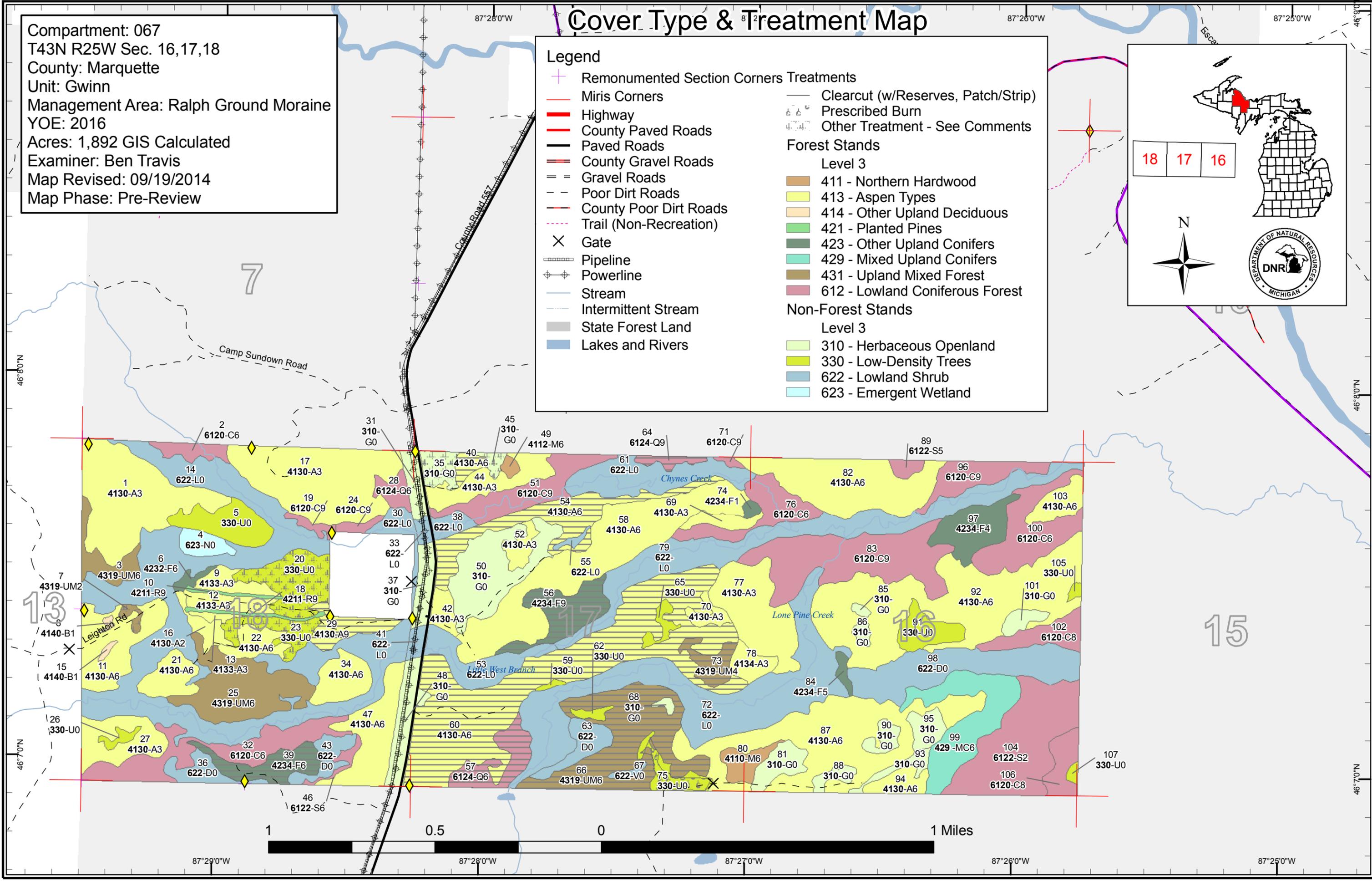
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Stand Boundary Map

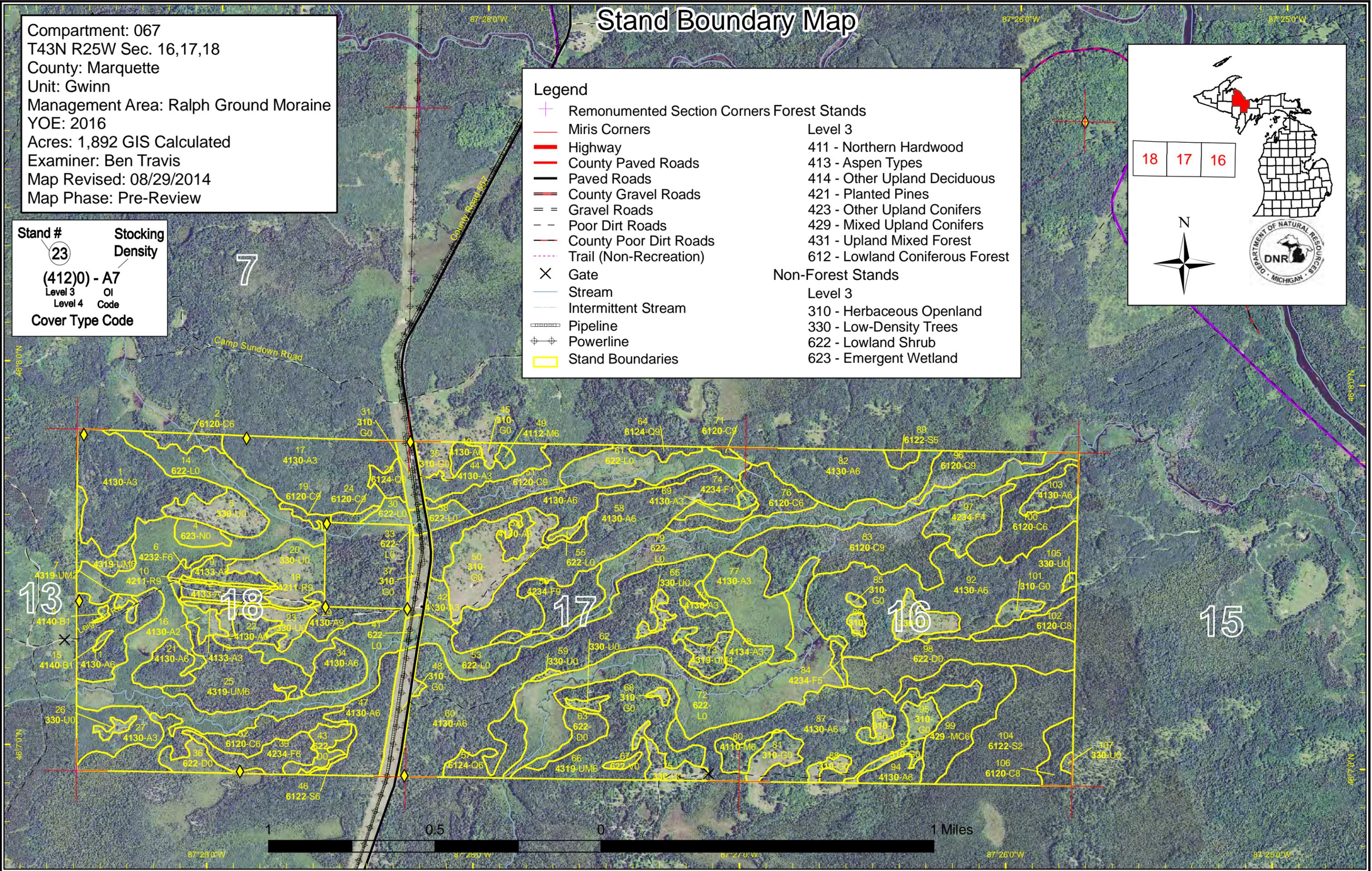
Compartment: 067
 T43N R25W Sec. 16,17,18
 County: Marquette
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 YOE: 2016
 Acres: 1,892 GIS Calculated
 Examiner: Ben Travis
 Map Revised: 08/29/2014
 Map Phase: Pre-Review

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

Legend

	Remonumented Section Corners Forest Stands	Level 3
	Miris Corners	411 - Northern Hardwood
	Highway	413 - Aspen Types
	County Paved Roads	414 - Other Upland Deciduous
	Paved Roads	421 - Planted Pines
	County Gravel Roads	423 - Other Upland Conifers
	Gravel Roads	429 - Mixed Upland Conifers
	Poor Dirt Roads	431 - Upland Mixed Forest
	County Poor Dirt Roads	612 - Lowland Coniferous Forest
	Trail (Non-Recreation)	Non-Forest Stands
	Gate	Level 3
	Stream	310 - Herbaceous Openland
	Intermittent Stream	330 - Low-Density Trees
	Pipeline	622 - Lowland Shrub
	Powerline	623 - Emergent Wetland
	Stand Boundaries	

18 17 16



Special Conservation Areas & Site Conditions Map

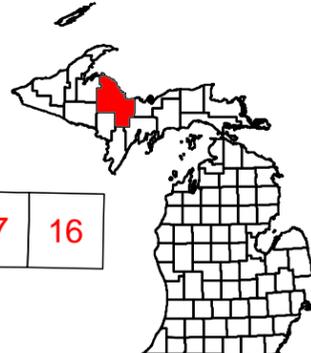
Compartment: 067
 T43N R25W Sec. 16,17,18
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Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

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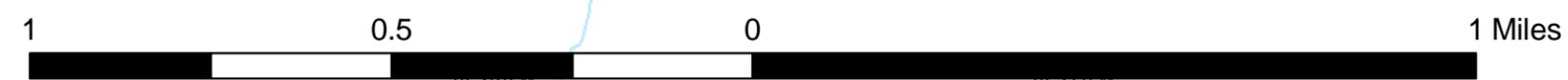
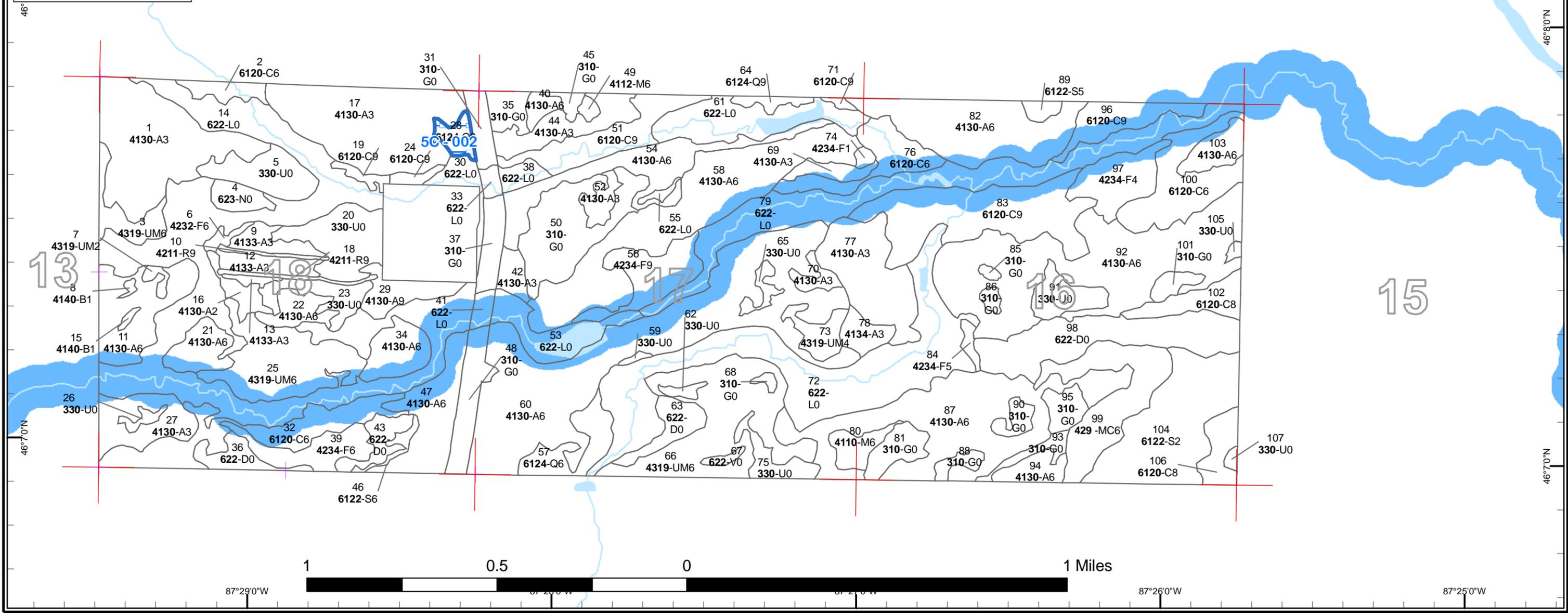
Legend

-  Remonumented Section Corners
-  Miris Corners
-  Stand Boundaries
- Site Condition Available
-  Available w/ Constraints (Factor - Number)
5C: Delay treatment for age/size class diversity or exceptional site quality
- Special Conservation Areas
-  Cold Water Streams
-  Cold Water Lakes
-  High Priority Trout Stream Buffer



18 17 16





87°29'0"W 87°26'0"W 87°25'0"W

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	16	151	188	182	73	168	0	0	0	0	0	0	0	0	779
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	6	0	17	143	33	0	200
Herbaceous Openland	107	0	0	0	0	0	0	0	0	0	0	0	0	0	107
Low-Density Trees	78	0	0	0	0	0	0	0	0	0	0	0	0	0	78
Lowland Conifers	0	0	0	0	15	0	0	0	3	0	0	0	5	0	23
Lowland Shrub	359	0	0	0	0	0	0	0	0	0	0	0	0	0	359
Lowland Spruce/Fir	0	0	0	0	0	54	3	0	0	0	0	0	0	0	57
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	0	0	0	2	0	7	0	0	0	0	0	0	9
Paper Birch	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Red Pine	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Treed Bog	68	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Upland Conifers	0	0	0	0	33	0	0	0	0	0	0	0	0	0	33
Upland Mixed Forest	0	2	0	0	47	60	0	0	0	0	0	0	0	0	109
Upland Spruce/Fir	0	1	2	18	0	34	2	0	0	0	0	0	0	0	58
Total	636	156	190	200	168	318	9	7	10	0	17	143	38	0	1892



Report 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit
Year of Entry 2016

Compartment 067
Total Compartment Acres: 1,892

Acres by Treatment Type

Commercial Harvest - 280 Tree Planting - 0 Other - 15
 Habitat Cut - 0 Opening Maintenance - 36

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	168	0	0	0	0	0	168
Lowland Coniferous Forest	18	0	0	0	0	0	18
Other Upland Conifers	34	0	0	0	0	0	34
Upland Mixed Forest	60	0	0	0	0	0	60
Total	280	0	0	0	0	0	280



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
29	32067029-Cut	10.7	4130 - Aspen	High Density Log	53	111-140	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Harvest all trees except red pine, elm, white pine, oak, hemlock, cedar, yellow birch, and white birch. Use area exclusion to establish 3% <u>Specs:</u> retention. Incorporate bigtooth aspen into retention patches for goshawk nesting sites.										
<u>Other</u> Spruce budworm found in compartment. <u>Comments:</u>										
<u>Next</u> Follow-up treatment with a regeneration survey specified in "Work Instruction 2.1 Reforestation". Acceptable regeneration includes maple, black <u>Steps:</u> cherry, birch, aspen, spruce, white pine, and red pine.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2015										
39	32067039-Cut	14.7	42340 - Upland Spruce/Fir	High Density Pole	53		Harvest	Clearcut	42340 - Upland Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Stand is in decline due to spruce budworm outbreak. Harvest all trees except oak, cedar, elm, hemlock, white pine, black cherry, red pine, yellow <u>Specs:</u> birch, and white birch. No other retention justified due to severity of spruce budworm population.										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> Follow-up treatment with a regeneration survey specified in "Work Instruction 2.1 Reforestation". Acceptable regeneration includes aspen, maple, <u>Steps:</u> black cherry, birch, fir, spruce, and white pine.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
40	32067040-Cut	3.7	4130 - Aspen	High Density Pole	53		Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Harvest all trees except oak, elm, white pine, red pine, hemlock, white birch and yellow birch. Retention will not meet 3%. Incorporate large <u>Specs:</u> bigtooth aspen in patches for goshawk nests.										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> Follow-up treatment with a regeneration survey specified in "Work Instruction 2.1 Reforestation". Acceptable regeneration includes maple, black <u>Steps:</u> cherry, birch, aspen, spruce, fir, and white pine.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2015										
54	32067054-Cut	30.4	4130 - Aspen	High Density Pole	53	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Harvest all trees except white pine, red pine, elm, yellow birch, white birch, cedar, hemlock, and oak. Incorporate large bigtooth aspen into <u>Specs:</u> retention patches.										
<u>Other</u> Follow BMPs along waterways. Spruce budworm found in compartment. <u>Comments:</u>										
<u>Next</u> Follow-up treatment with a regeneration survey specified in "Work Instruction 2.1 Reforestation". Acceptable regeneration includes aspen, maple, <u>Steps:</u> black cherry, birch, spruce, white pine, and hemlock.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2015										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
56 32067056-Cut	19.2	42340 - Upland Spruce/Fir	High Density Log	53		Harvest	Clearcut	42340 - Upland Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Harvest all trees except white birch, elm, yellow birch, oak, white pine, red pine, hemlock, and cedar. It is unlikely that 3% retention will be met.									
<u>Specs:</u> Retain some large bigtooth aspen.									
<u>Other Comments:</u> Follow BMP guidelines along watercourses.									
<u>Next Steps:</u> Follow-up treatment with a regeneration survey specified in "Work Instruction 2.1 Reforestation". Acceptable regeneration includes maple, black cherry, aspen, birch, spruce, fir, and white pine.									
<u>Proposed Start Date:</u> 10/01/2014									

57 32067057-Cut	14.5	6124 - Lowland Spruce-Fir	High Density Pole	45		Harvest	Clearcut	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal
<u>Prescription</u> Harvest all trees except white birch, elm, yellow birch, black cherry, cedar, hemlock, white pine, and red pine. May not meet 3% retention goal.									
<u>Specs:</u>									
<u>Other Comments:</u> Follow BMP guidelines along watercourses.									
<u>Next Steps:</u> Follow-up treatment with a regeneration survey specified in "Work Instruction 2.1 Reforestation". Acceptable regeneration includes maple, black cherry, aspen, birch, spruce, cedar, hemlock, and white pine.									
<u>Proposed Start Date:</u> 10/01/2014									

60 32067060-Cut	123.2	4130 - Aspen	High Density Pole	52	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Harvest aspen, balsam poplar, fir, spruce, maple, and cherry. Retain white birch, elm, yellow birch, red pine, white pine, hemlock, cedar and oak.									
<u>Specs:</u> Leave 3% retention through area exclusion. Incorporate large bigtooth aspen in patches for goshawk nesting sites.									
<u>Other Comments:</u> Follow BMP guidelines along waterways. Spruce budworm negatively impacting spruce and fir in this compartment.									
<u>Next Steps:</u> Follow-up treatment with a regeneration survey specified in "Work Instruction 2.1 Reforestation". Acceptable regeneration includes aspen, maple, black cherry, birch, spruce, fir, and white pine.									
<u>Proposed Start Date:</u> 10/01/2014									

64 32067064-Cut	3.4	6124 - Lowland Spruce-Fir	High Density Log	81		Harvest	Clearcut with Reserves	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal
<u>Prescription</u> Harvest aspen, balsam poplar, spruce, tamarack, fir, maple, and white birch. Leave hemlock, white pine, cedar, and yellow birch.									
<u>Specs:</u>									
<u>Other Comments:</u> Combine treatment of this stand with stand 66 of Compartment 68 to north. This will be a 2015 YOE.									
<u>Next Steps:</u> Follow-up treatment with a regeneration survey specified in "Work Instruction 2.1 Reforestation". Acceptable regeneration includes aspen, maple, balsam poplar, tamarack, cedar, black cherry, birch, fir, spruce, pine, and hemlock.									
<u>Proposed Start Date:</u> 10/01/2014									



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
66	32067066-Cut	51.7	4319 - Mixed Upland Forest	High Density Pole	53		Harvest	Clearcut	42340 - Upland Spruce/Fir	Cmpt. Review Proposal

Prescription Harvest all trees except elm, white pine, red pine, white birch, yellow birch, oak, hemlock, and cedar. 3% retention won't be met.
Specs:

Other Spruce budworm negatively impacting stand. Follow BMPs along watercourses.
Comments:

Next Follow-up treatment with a regeneration survey specified in "Work Instruction 2.1 Reforestation". Acceptable regeneration includes maple, black
Steps: cherry, aspen, fir, birch, spruce, white pine, and hemlock.

Proposed
Start Date: 10/01/2014

73	32067073-Cut	8.1	4319 - Mixed Upland Forest	Low Density Pole	54		Harvest	Clearcut with Reserves	330 - Low Density Trees	Cmpt. Review Proposal
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Prescription Harvest aspen, maple, spruce, fir, balsam poplar to re-establish open condition. Retain black cherry, elm, oak, hemlock, white pine, red pine,
Specs: white birch, yellow birch, and cedar.

Other Work with wildlife staff to mark appropriate leave trees clumps.
Comments: Spruce budworm is negatively impacting spruce and fir in this compartment.

Next Follow-up treatment with a regeneration survey specified in "Work Instruction 2.1 Reforestation". Acceptable regeneration includes aspen, maple,
Steps: black cherry, birch, spruce, fir, and white pine.

Proposed
Start Date: 10/01/2015

32067_OutOfY OE-Burn	5.4						Prescribed Burn	Unspecified	310 - Herbaceous Openland	Fld. Tr. Bdy. - Incomplete
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Prescription This area has a history of openings management. Work with FMD Fire Specialist on burn plan.
Specs:

Other This opening is part of a larger stand in adjacent compartment that has an approved prescribed burn treatment.
Comments:

Next Monitor results and level of success.
Steps:

Proposed
Start Date: Unspecified

7	32067007- NonFor	1.9	4319 - Mixed Upland Forest	Medium Density Sapling	12		Non-Forest Management	Other - Specify	4319 - Mixed Upland Forest	Cmpt. Review Proposal
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Prescription Consider releasing the Siberian crabs which are being overtopped by aspen. Planted in long furrow at 6 to 8 foot spacing 30 years ago. Very
Specs: good wildlife planting which needs to be promoted and maintained. Mechanical treatment. Also, WLD Division may want to plant hard/soft
mast trees/shurbs to benefit featured species.

Other
Comments:

Next
Steps:

Proposed
Start Date: Unspecified

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8 32067008- NonFor	0.7	4140 - Other Upland Deciduous	Low Density Sapling	13		Non-Forest Management	Other - Specify	4140 - Paper Birch	Cmpt. Review Proposal

Prescription Consider releasing the Siberian crabs which are being overtopped by aspen. Planted in long furrow at 6 to 8 foot spacing 30 years ago. Very good wildlife planting which needs to be promoted and maintained. Mechanical treatment. Also, WLD Division may want to plant hard/soft mast trees/shurbs to benefit featured species.

Other
Comments:

Next
Steps:

Proposed
Start Date: Unspecified

20 NF_32067020- NonFor	22.3	3303 - Mixed Low Density Trees				Non-Forest Management	Other - Specify	3303 - Mixed Low Density Trees	Cmpt. Review Proposal
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Prescription Consider releasing the Siberian crabs which are being overtopped by aspen. Planted in long furrow at 6 to 8 foot spacing 30 years ago. Very good wildlife planting which needs to be promoted and maintained. Mechanical treatment. Also, WLD Division may want to plant hard/soft mast trees/shurbs to benefit featured species.

Other
Comments:

Next
Steps:

Proposed
Start Date: Unspecified

23 NF_32067023- NonFor	10.7	3303 - Mixed Low Density Trees				Non-Forest Management	Other - Specify	3303 - Mixed Low Density Trees	Cmpt. Review Proposal
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Prescription Consider releasing the Siberian crabs which are being overtopped by aspen. Planted in long furrow at 6 to 8 foot spacing 30 years ago. Very good wildlife planting which needs to be promoted and maintained. Mechanical treatment. Also, WLD Division may want to plant hard/soft mast trees/shurbs to benefit featured species.

Other
Comments:

Next
Steps:

Proposed
Start Date: Unspecified

35 NF_32067035- Other	6.8	3105 - Mixed Upland Herbaceous				Other	Other - Specify	3105 - Mixed Upland Herbaceous	Cmpt. Review Proposal
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Prescription WLD may plant oak within this stand.

Other
Comments:

Next
Steps:

Proposed
Start Date: Unspecified



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
45 NF_32067045-Other	2.4	3105 - Mixed Upland Herbaceous				Other	Other - Specify	3105 - Mixed Upland Herbaceous	Cmpt. Review Proposal

Prescription: WLD may plant oak within this stand.

Specs:

Other

Comments:

Next

Steps:

Proposed

Start Date: Unspecified

**Total Treatment
Acreage Proposed: 329.7**



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type! #Type!

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Type!

Limiting Factor

Total Treatment Acreage Proposed: 0.0

Report 5 – Site Conditions

Gwinn Mgt. Unit
Ben Travis : Examiner

Compartment 067
Year of Entry 2016

Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5C
	Available	Not Available			
779	779		Aspen	779	
200	200		Cedar	200	
23	23		Lowland Conifers	18	5
57	57		Lowland Spruce/Fir	57	
9	9		Northern Hardwood	9	
2	2		Paper Birch	2	
4	4		Red Pine	4	
33	33		Upland Conifers	33	
109	109		Upland Mixed Forest	109	
58	58		Upland Spruce/Fir	58	
1,273	1,273		Total Forested Acres	1,267	5
	100%		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
002	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5				
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	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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.

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Gwinn Mgt. Unit

Report 8 – Forested Stands

Compartment: 067
Year of Entry: 2016

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Sapling	53.7	23		White birch found in overstory. Red maple, white birch, black cherry and white spruce saplings present.
2	6120 - Lowland Cedar	High Density Pole	6.1	85		
3	4319 - Mixed Upland Forest	High Density Pole	9.8	48		
6	42320 - Upland Spruce	High Density Pole	2.2	64		Stand buffers wetland to north and west. Infrequent black spruce poles.
7	4319 - Mixed Upland Forest	Medium Density	1.9	12		Old opening that is filling in, mainly with cherry brush and trembling aspen. Central portion of stand semi-open. Siberian crabs planted in stand and throughout surrounding stands in 1983. They are thriving though some are beginning to be shaded out. Abundant fruit produced and still hanging. Deer have been pawing through snow to eat fallen fruit. White spruce, red maple and white birch poletimber present.
8	4140 - Other Upland Deciduous	Low Density Sapling	0.7	13		Found few Siberian crb trees.
9	4133 - Aspen, Mixed Pine	High Density Sapling	7.1	12		Red pine dense in areas to north of road. There are some scattered Siberian crabs present along north edge of stand. Autumn olive also present. Scattered white spruce poles.
10	42110 - Planted Red Pine	High Density Log	1.8	65	51-80	Stand planted to function as windbreak.
11	4130 - Aspen	High Density Pole	26.1	44		2 to 3 stick aspens. Black cherry, yellow birch, black spruce, cedar and elm are uncommon overstory associates.
12	4133 - Aspen, Mixed Pine	High Density Sapling	7.9	12		Infrequent balsam poplar and black cherry poles. Balsam poplar saplings present.
13	4133 - Aspen, Mixed Pine	High Density Sapling	1.7	21		
15	4140 - Other Upland Deciduous	Low Density Sapling	0.8	13		Siberian crabs planted in 1983 thriving in stand.
16	4130 - Aspen	Medium Density	5.7	5		Scattered small openings.
17	4130 - Aspen	High Density Sapling	56.7	16		Heavy stocking.
18	42110 - Planted Red Pine	High Density Log	2.5	65	51-80	Red pine planted to function as windbreak. Stand serves aesthetic purpose due to proximity to Leighton Rd. Healthy crowns.
19	6120 - Lowland Cedar	High Density Log	2.7	105		Creek buffer.

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Gwinn Mgt. Unit

Report 8 – Forested Stands

Compartment: 067
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4130 - Aspen	High Density Pole	11.2	23		Vigorous bigtooth aspen.
22	4130 - Aspen	High Density Pole	8.3	34		One and two stick aspen. Some Siberian crab planted in 1970s along south edge.
24	6120 - Lowland Cedar	High Density Log	2.4	110		Stand adjacent to stream.
25	4319 - Mixed Upland Forest	High Density Pole	37.0	44		Pockets of sparse balsam poplar and tag alder. Aspen conatin 2 to 3 sticks.
27	4130 - Aspen	High Density Sapling	17.9	14		Fully stocked stand.
28	6124 - Lowland Spruce-Fir	High Density Pole	5.2	141		Cedar crowns healthy. Pockets with higher black spruce stocking. White birch and balsam poplar are infrequent overstory associates.
29	4130 - Aspen	High Density Log	10.7	53	111-140	Aspen top die-back and mortality. Sparse black cherry and red maple in overstory. Fir, white birch and white pine saplings present.
32	6120 - Lowland Cedar	High Density Pole	32.1	112		
34	4130 - Aspen	High Density Pole	13.3	44		
39	42340 - Upland Spruce/Fir	High Density Pole	14.7	53		Spruce budworm impacting fir and spruce. Harvest stand with accelerated schedule.
40	4130 - Aspen	High Density Pole	3.7	53		Two size classes to aspen overstory. One averages 16 inches Dbh and is in decline while the other averages 9 inches Dbh and is healthy. Trees are 4 stick in height on average.
42	4130 - Aspen	High Density Sapling	5.3	5		Aspen regeneration density adequate. Aspen around 10 feet tall. Sporadic white pine saplings.
44	4130 - Aspen	High Density Sapling	16.2	14		Well stocked aspen. Stand follows valley. Black cherry, red maple and sugar maple small poles present.
46	6122 - Black Spruce	High Density Pole	2.6	50		Healthy spruce crowns.
47	4130 - Aspen	High Density Pole	25.0	43		
49	4112 - Maple, Beech, Cherry Association	High Density Pole	1.6	50	81-110	White spruce poletimber present.

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Report 8 – Forested Stands

Compartment: 067
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
51	6120 - Lowland Cedar	High Density Log	21.7	141		Cedar stocking patchy with some tag alder areas. Cedar canopies weak with reduced foliage. Cedar is around 3 sticks tall.
52	4130 - Aspen	High Density Sapling	5.3	14		Jack pine, red pine and black spruce seedlings found.
54	4130 - Aspen	High Density Pole	30.4	53	81-110	Higher occurrence of spruce and fir along north edge of stand. Frequent aspen snags and spiketop boles. Fir is overmature. Cedar, sugar maple, white birch and white pine uncommon overstory associates. White pine and white spruce saplings present.
56	42340 - Upland Spruce/Fir	High Density Log	19.2	53		Spruce budworm impacting stand. Very tall spruce and fir, up to 6 and 7 stick tall.
57	6124 - Lowland Spruce- Fir	High Density Pole	14.5	45		Spruce budworm impacting stand. Schedule stand for harvest as soon as possible.
58	4130 - Aspen	High Density Pole	72.6	33		Aspen healthy. Some isolated blueberry patches. Occasional white pine saplings.
60	4130 - Aspen	High Density Pole	123.2	52	81-110	Aspen 3 and 4 stick tall. Some are 16 to 18 inch Dbh. Aspen snags and trees with top die-back. More conifer component to overstory along creek. Red maple and black cherry are uncommon overstory associates. White pine, black cherry, white spruce, white birch and trembling aspen saplings present. Spruce budworm present in stand.
64	6124 - Lowland Spruce- Fir	High Density Log	3.4	81		Stand borders Chynes creek.
66	4319 - Mixed Upland Forest	High Density Pole	52.2	53		Long sandy low ridges. Lower quality site. Areas where red maple is majority of stocking. Fir and aspen are in overmature condition. Elevated levels of mortality in fir and aspen. Poor form to red maple boles. Clubmoss common. White spruce, tamarack and black cherry pole timber present. Spruce budworm impacting stand.
69	4130 - Aspen	High Density Sapling	5.4	8		High stem density. Black cherry poles present.
70	4130 - Aspen	High Density Sapling	4.1	20		
71	6120 - Lowland Cedar	High Density Log	1.1	110		
73	4319 - Mixed Upland Forest	Low Density Pole	8.1	54		Semi-open stand. Grass, blueberries and lichens where tree cover absent. White pine and white birch poles present. White pine saplings found. Spruce budworm impacting stand.
74	42340 - Upland Spruce/Fir	Low Density Sapling	1.5	15		

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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
76	6120 - Lowland Cedar	High Density Pole	18.2	110		Stream corridor.
77	4130 - Aspen	High Density Sapling	33.0	16		
78	4134 - Aspen, Spruce/Fir	High Density Sapling	6.7	14		
80	4110 - Sugar Maple Association	High Density Pole	7.1	78		Moderate quality timber. Some canopy gaps with raspberry. Clubmoss.
82	4130 - Aspen	High Density Pole	45.2	24		Black cherry and black spruce small poletimber present. Black cherry and white spruce saplings found. Aspen range from 4 to 8 inches Dbh.
83	6120 - Lowland Cedar	High Density Log	52.1	110		
84	42340 - Upland Spruce/Fir	Medium Density Pole	2.3	25		Dry, infertile site. Black cherry, red maple and white pine poletimber found. White pine and black cherry saplings present.
87	4130 - Aspen	High Density Pole	72.2	27		Primarily one and two stick aspen. Balsam fir and white birch are infrequent overstory associates.
89	6122 - Black Spruce	Medium Density Pole	2.8	69		Sphagnum abundant. 1 and 2 stick merchantable heights to spruce.
92	4130 - Aspen	High Density Pole	93.9	35		Two to three stick tall aspen. Some aspen up to 10 inches Dbh. Infrequent white spruce poletimber.
94	4130 - Aspen	High Density Pole	7.3	35		Classic aspen overstory above fir saplings. Aspen is 2 to 3 stick tall.
96	6120 - Lowland Cedar	High Density Log	14.6	106		
97	42340 - Upland Spruce/Fir	Low Density Pole	18.1	30		
99	429 - Mixed Upland Conifers	High Density Pole	33.2	46		Stand is mosaic of upland and lowland sites. Upland found along west edge.
100	6120 - Lowland Cedar	High Density Pole	27.7	110		
102	6120 - Lowland Cedar	Medium Density Log	11.6	126		Frequent pools of water. Trembling aspen and red maple are infrequent overstory associates.

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Compartment: 067
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
103	4130 - Aspen	High Density Pole	8.9	44		
104	6122 - Black Spruce	Medium Density	51.3	54		
106	6120 - Lowland Cedar	Medium Density Log	9.3	118		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	6233 - Wet Meadow	6.4	No	Unspecified	Scattered tamarack saplings and Spirea shrubs.
5	3301 - Low Density Deciduous Tree	16.4	Unspecified	Unspecified	Sparse white spruce, trembling aspen, white birch, red maple and black cherry small poles. Trembling aspen and black cherry saplings present.
14	6220 - Alder/willow	143.4	No	Unspecified	
20	3303 - Mixed Low Density Trees	22.3	Unspecified	Unspecified	Patches of opening with trees filling in. Red pine, choke cherry, balsam poplar, black spruce, white spruce, aspen and jack pine saplings found. White birch and white spruce poletimber found along north edge.
23	3303 - Mixed Low Density Trees	10.7	Yes	Unspecified	Clumpy red pine and aspen saplings. Red pine most prevalent to north edge of stand. Sparse black cherry and black spruce poles. Siberian crabs planted in 1983 doing well.
26	3303 - Mixed Low Density Trees	2.2	Unspecified	Unspecified	
30	6220 - Alder/willow	6.8	No	Unspecified	
31	3103 - Rubus-Fern	7.2	Yes	Unspecified	Powerline ROW and Co Rd 557 ROW.
33	6220 - Alder/willow	2.5	Yes	Unspecified	Powerline and Co Rd 557 ROW.
35	3105 - Mixed Upland Herbaceous	6.8	Yes	Unspecified	
36	6224 - Treed Bog	7.9	No	Unspecified	Black spruce bog.
37	3102 - Grass	8.8	Yes	Unspecified	
38	6220 - Alder/willow	4.7	No	Unspecified	
41	6220 - Alder/willow	3.2	No	Unspecified	Some scattered clumps of black spruce and aspen poles. Black spruce saplings found.
43	6224 - Treed Bog	7.8	No	Unspecified	Sparse black spruce saplings. Leatherleaf and Labrador tea predominate.
45	3105 - Mixed Upland Herbaceous	2.4	Yes	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
48	3105 - Mixed Upland Herbaceous	14.3	Yes	Unspecified	Powerline and County Road 557 ROW.
50	31021 - Cool Season Grass	32.6	Yes	Unspecified	South portion of stand around 95% open and on gentle south-facing slope. North portion of stand flat with approximately 70% open land. Reindeer moss found around site. Cherry brush and aspen saplings most common woody plants. Scarce white spruce and jack pine saplings.
53	6220 - Alder/willow	17.3	No	Unspecified	
55	6220 - Alder/willow	1.3	No	Unspecified	Predominantly willow and leatherleaf.
59	3303 - Mixed Low Density Trees	0.9	No	Unspecified	
61	6220 - Alder/willow	26.9	No	Unspecified	
62	3303 - Mixed Low Density Trees	1.9	No	Unspecified	
63	6224 - Treed Bog	9.6	No	Unspecified	
65	3303 - Mixed Low Density Trees	3.4	Unspecified	Unspecified	Some cherry and aspen brush. White pine saplings present. Occasional pin cherry poles.
67	6225 - Bog	1.6	No	Unspecified	
68	3105 - Mixed Upland Herbaceous	1.2	Unspecified	Unspecified	Mainly sedge and reindeer moss with patches of blueberry. Some white pine saplings and cherry brush.
72	6220 - Alder/willow	91.1	No	Unspecified	Lone Pine Creek floodplain.
75	3301 - Low Density Deciduous Tree	8.0	Unspecified	Unspecified	Cherry brush, aspen thickets and fir saplings common. Sedge, blueberry and lichens. White pine and black spruce saplings found. Black cherry, red maple and white spruce poletimber.
79	6220 - Alder/willow	61.2	No	Unspecified	Stream corridor.
81	31021 - Cool Season Grass	8.8	Unspecified	Unspecified	Good quality grass. Some cherry brush. Aspen saplings.
85	3102 - Grass	1.0	Unspecified	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
86	3102 - Grass	1.8	Unspecified	Unspecified	
88	3101 - Poverty Grass, Cladonia	3.3	Unspecified	Unspecified	Poor grass and lichens. Cherry brush and aspen thickets present.
90	3105 - Mixed Upland Herbaceous	4.3	Unspecified	Unspecified	Poor site fertility. Scattered white pine saplings and cherry brush patches. Some blueberry.
91	3301 - Low Density Deciduous Tree	10.5	Unspecified	Unspecified	Poor quality grass. Cherry brush. Some small black cherry poletimber. Black spruce and aspen saplings.
93	3105 - Mixed Upland Herbaceous	4.1	Unspecified	Unspecified	Sedge and lichens. Apple tree. Clumps of aspen saplings, cherry brush and white spruce saplings. Small fir poles. Semi-open.
95	3102 - Grass	6.5	Unspecified	Unspecified	Concentration of 8 to 12 foot tall white pine within northern portion of stand. Pockets of dense cherry brush and some aspen whips.
98	6224 - Treed Bog	42.2	No	Unspecified	Tamarack and black spruce saplings dominant cover. Some poles, mainly to east.
101	31021 - Cool Season Grass	4.1	Unspecified	Unspecified	Rough ground. Moderate quality grass forage. Cherry brush, aspen whips and black cherry small poles present.
105	3301 - Low Density Deciduous Tree	1.0	Unspecified	Unspecified	Poor site fertility. Cherry brush and aspen saplings prevalent. Fir and black cherry small poletimber present.
107	3303 - Mixed Low Density Trees	1.1	Unspecified	Unspecified	