



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32059

Entry Year 2021

Acreage: 1,944

County Marquette

Management Area: Ralph Ground Moraine

Revision Date: 2019-07-25

Stand Examiner: Eric Brolin

Legal Description:

T44N - R26W, Sections 31, 32, 33

Identified Planning Goals:

The main goal is to improve or maintain the high quality timber in hardwood stands, while preserving biodiversity.

Soil and topography:

Ensley muck, Carbondale and Tawas soils, Greenwood and Dawson soils, Emmet fine sandy loam, Escanaba loamy fine sand, Solona fine sandy loam, Mashek fine sandy loam, Emmet-Escanaba complex, Kinross muck. Flat to rolling topography.

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

Some private land along the south border otherwise this compartment is surrounded by state land.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

No fisheries concerns.

Wildlife Habitat Considerations:

Compartment 059 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); course woody debris; and deer wintering complexes.

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

Mineral Resource and Development Concerns and/or Restrictions

Sections 28 & 30-33, T44N-R26W and Section 36, T44N-R27W, Marquette County

An active sand/gravel pit is located just over two miles to the north, and there is good sand & gravel potential on the drumlins within the compartment. Potential for bedrock limestone is unknown. The little data that is available suggests that bedrock is at least 50 feet beneath the surface here. There is no known history of metallic mineral leasing or exploration within the compartment. Approximately 1,300 acres southeast of the compartment were recently nominated for metallic mineral leasing by Weyerhaeuser Company. There is no strong evidence currently of metallic mineral potential in this area. There is no known potential for economic hydrocarbon production in the UP.

Vehicle Access:

Access is good across much of the compartment.

Survey Needs:

Corners may be needed along the south border.

Recreational Facilities and Opportunities:

General forest recreation.

Fire Protection:

Low risk for wildfire potential. Access for fire equipment is good across the whole compartment.

Additional Compartment Information:

High quality hardwood in majority of northern hardwood stands.

The following reports from the Inventory are attached:

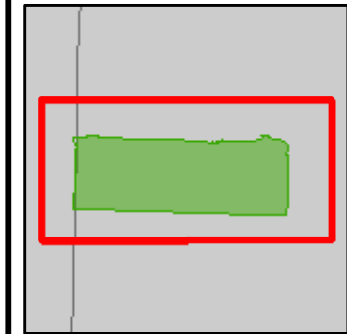
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

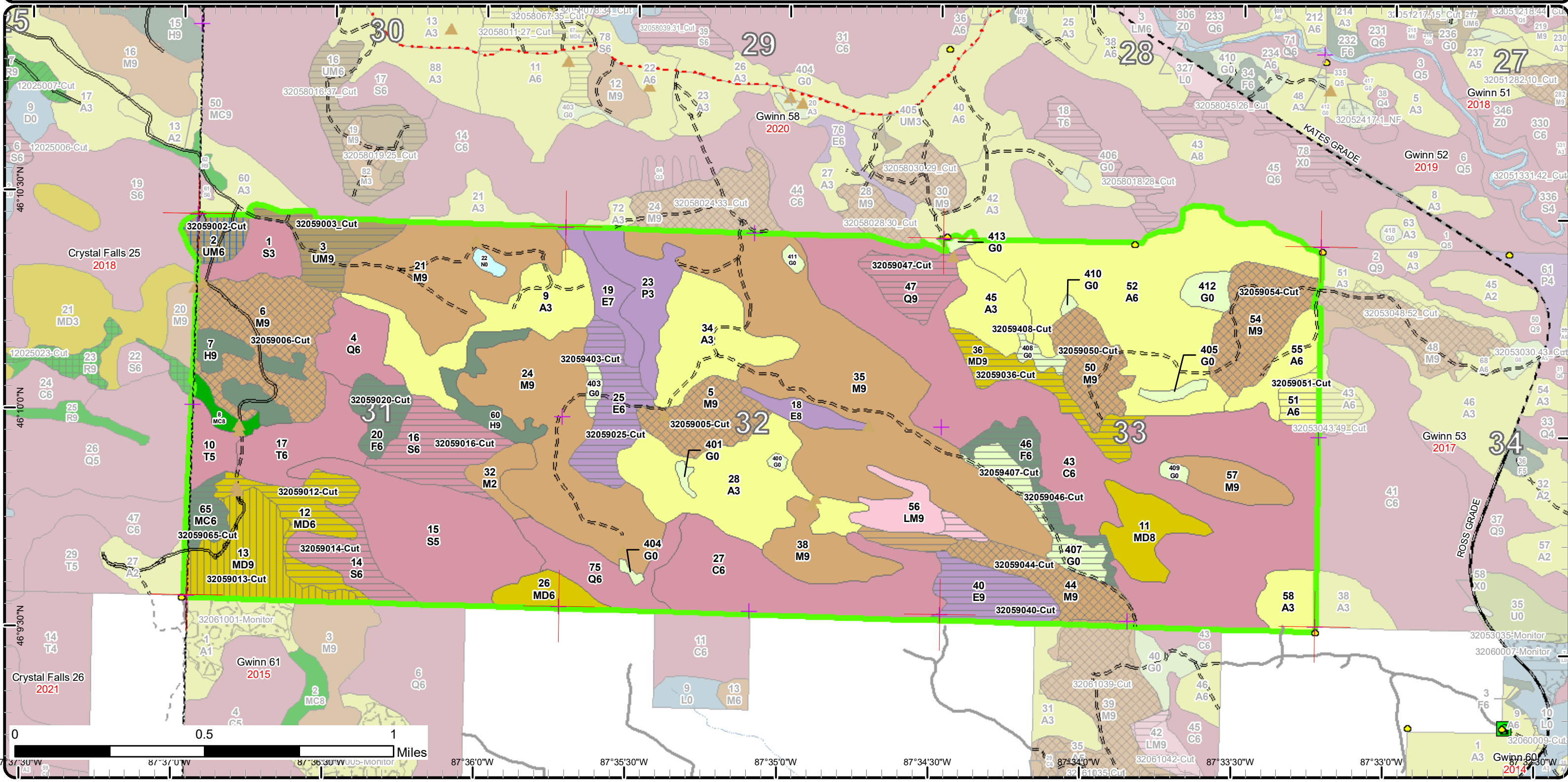
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 59
 T44N, R26W, Sec: 31, 32, 33
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2021
 Acres: 1,944 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 8/19/2019
 Map Phase: Web-Post

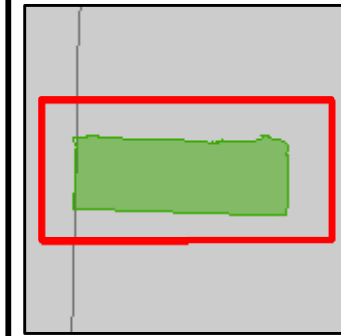


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- ▲ Berms
- G Gate
- Intermittent Stream
- Perennial River
- Compartment Boundary
- X Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 623 - Emergent Wetland

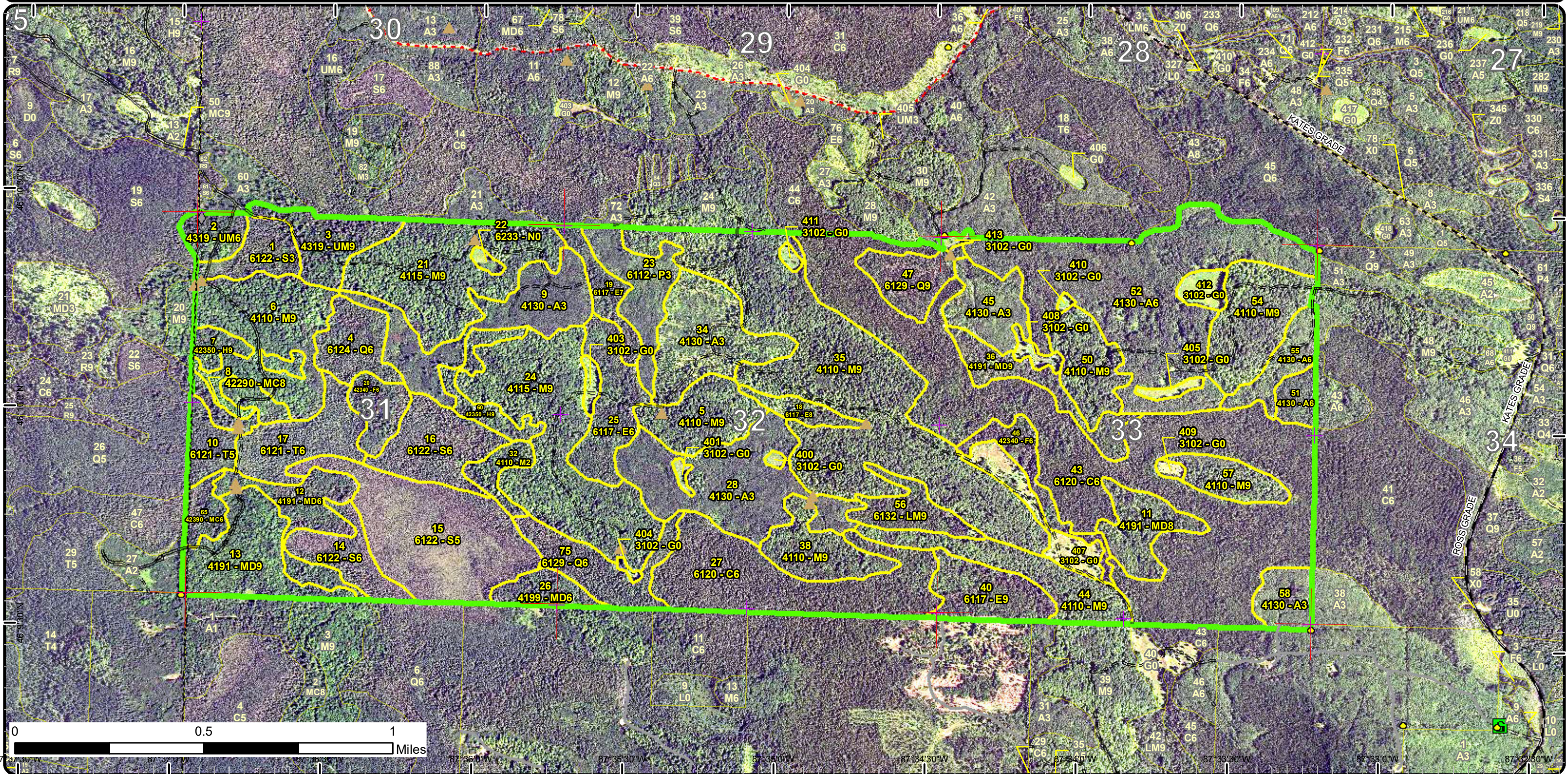


Stand Boundary Map

Compartment: 59
T44N, R26W, Sec: 31, 32, 33
County: Marquette
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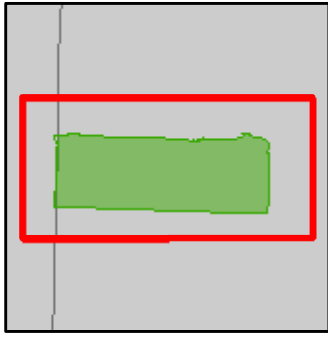


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
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- Counties
- DNR - Primary Forest Road
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- Gate
- Intermittent Stream
- Perennial River
- Compartment Boundary
- Stand Boundaries
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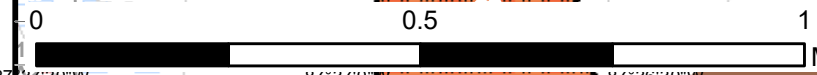
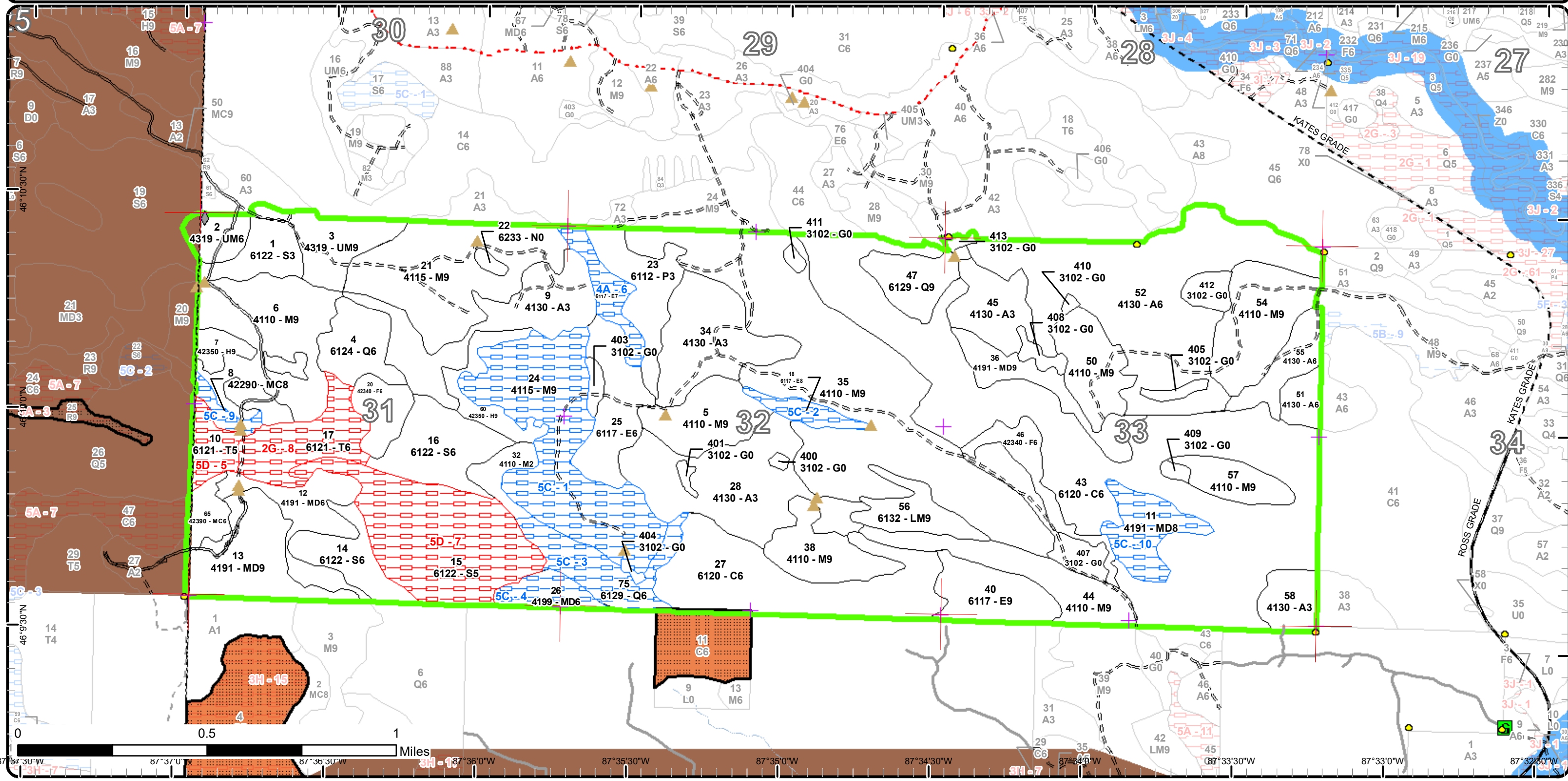
Special Conservation Areas & Site Conditions Map

Compartment: 59
 T44N, R26W, Sec: 31, 32, 33
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2021
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 Examiner: Eric Brolin
 Map Revised: 8/19/2019
 Map Phase: Web-Post



<ul style="list-style-type: none"> Miris Corners Re-monumented Section Corners Survey Grade Corners Field Grade Corners Counties DNR - Primary Forest Road DNR - Secondary Forest Road DNR - Forest Access Route Federal / State - Dirt / Gravel Road County - Gravel Road Private - Paved Road Private - Dirt / Gravel Road Berms Gate 	<ul style="list-style-type: none"> Intermittent Stream Perennial River Compartment Boundary Available w/ Constraints Unavailable Stand Boundaries SCA Cold Water Streams 	<ul style="list-style-type: none"> High Priority Trout Stream Buffer Deer Winter Range Wildlife Management Areas Other Habitat Area
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4A: No Markets Available for these Forest Products
 5C: Delay treatment for age/size class diversity or exceptional site quality
 2G: Too wet (sensitive soils, does not include access issues)
 5D: Unproductive Forest Land



87°34'30"W 87°33'00"W 87°36'30"W 87°35'00"W 87°35'00"W 87°34'30"W 87°33'30"W 87°33'00"W

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	45	24	132	150	0	9	0	0	0	0	0	0	0	0	0	0	0	360
Cedar	0	0	0	0	0	0	0	0	0	0	0	76	241	0	0	0	0	0	317
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	33
Herbaceous Openland	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Lowland Aspen/Balsam Poplar	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Lowland Conifers	0	0	0	0	0	0	0	22	0	28	20	0	0	0	0	0	0	0	70
Lowland Deciduous	0	0	0	0	0	0	0	0	28	31	23	0	0	0	0	0	0	0	82
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	18
Lowland Spruce/Fir	0	0	0	0	0	0	17	0	0	0	33	81	21	0	0	0	0	0	152
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	0	0	41	0	22	0	24	0	0	0	0	0	0	42	129
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	146	0	0	0	0	0	0	432	578
Tamarack	0	0	0	0	0	0	0	32	0	0	0	13	0	0	0	0	0	0	45
Upland Conifers	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	0	0	0	0	0	0	12	0	0	0	25	0	0	0	0	0	0	0	37
Upland Spruce/Fir	0	0	0	0	0	0	15	0	0	17	0	0	0	0	0	0	0	0	32
Total	48	45	52	132	150	0	94	64	50	94	271	170	268	0	0	0	0	507	1945



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 59

Total Compartment Acres: 1,944

Commercial Harvest - 528
 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	9	0	0	0	0	0	0	0	0	9
Herbaceous Openland	25	0	0	0	0	0	0	0	0	25
Lowland Conifers	20	0	0	0	0	0	0	0	0	20
Lowland Deciduous	68	0	0	0	0	0	0	0	0	68
Lowland Spruce/Fir	55	0	0	0	0	0	0	0	0	55
Mixed Upland Deciduous	50	0	0	0	41	0	0	0	0	91
Northern Hardwood	0	181	0	0	0	0	0	0	0	181
Upland Conifers	10	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	25	0	0	12	0	0	0	0	0	37
Upland Spruce/Fir	31	0	0	0	0	0	0	0	0	31
Total	294	181	0	12	41	0	0	0	0	528

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	528	0	0	0	0	0	0	0	0	528
Next Step	0	0	0	75	0	0	545	0	0	620
Total	528	0	0	75	0	0	545	0	0	1148

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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
2 32059002-Cut	11.9	4319 - Mixed Upland Forest	Poletimber Well	55	111-140	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Uneven-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to promote diversity within the stand. Green mark leave trees to maintain 10-20 BA (3-10 TPA) of residual, healthy trees, preferably longer lived hardwood species or paper birch where present. Leave trees with over a 24" diameter at the stump. Also leave all cedar, hemlock, white pine, and yellow birch if present.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable hardwood species, aspen, conifer

Regen:

Other This treatment is to allow adequate sunlight to regenerate mid/intolerant species (aspen, birch), release patches of maple regeneration, and create species and structural diversity within the stand.

Proposed Start Date: 10/1 /2020

3 32059003_Cut	24.7	4319 - Mixed Upland Forest	Sawtimber Well	91	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to promote conifer regeneration. Retention should include some paper birch. Leave trees with over a 24" diameter on the stump. Leave cedar, hemlock, red pine, and white pine.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable white pine, spruce/fir, hardwoods

Regen:

Other Exclude denser cedar areas along the north and the black ash swale along the south border. Caution to not damage pine saplings. May need to be dry/frozen condition harvest.

Proposed Start Date: 10/1 /2020

5 32059005-Cut	28.2	4110 - Sugar Maple Association	Sawtimber Well	91	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark stand to 70-90 BA. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, elm, and yellow birch. Favor diversity while marking especially basswood.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable northern hardwoods

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

6 32059006-Cut	60.0	4110 - Sugar Maple Association	Sawtimber Well	91	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark stand to 70-90 BA. Focus on removing larger diameter, poorer quality trees first to maintain/create 60' canopy gaps. These gaps will allow needed sunlight to release saplings. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife including trees with over a 24" diameter at the stump. Leave cedar, hemlock, and paper birch. Favor diversity while marking especially basswood and fork crowned aspen.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable northern hardwood, hemlock

Regen:

Other

Comment: Include spruce/fir along the edges without pushing lines into lowland. This treatment is to encourage and/or establish different hardwood age classes in a stand that is currently lacking diversity and regeneration. Do not push treatment lines into hemlock stands. Access from the north may require frozen conditions or timber mats so cross wet ground.

Proposed Start Date: 10/1 /2020

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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
12 32059012-Cut	28.2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	59	111-140	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to promote aspen regeneration. Retention should include forked crown aspen and larger paper birch. Leave cedar, hemlock, red pine, and white pine.

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

Acceptable aspen, spruce/fir/conifer, maple
Regen:

Other Recommend harvest during dry or frozen conditions. Access can be from the south through private or north through state during frozen ground.
Comment:

Proposed Start Date: 10/1 /2020

13 32059013-Cut	41.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	91	111-140	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest all merchantable paper birch, aspen, spruce/fir, and trees marked with orange paint. Areas that are more dense to maple will be marked with orange paint to 70-90 BA. Retention should include fork crowned aspen and larger paper birch. Harvest will not include cedar, hemlock or white pine.

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

Acceptable northern hardwood, paper birch, hemlock
Regen:

Other Avoid damage to maple saplings during harvest. This treatment is to release the abundance of advanced maple regeneration to encourage a fully stocked, two-aged mixed hardwood stand. Access can be from the south through private or north through state during frozen ground.
Comment:

Proposed Start Date: 10/1 /2020

14 32059014-Cut	21.2	6122 - Black Spruce	Poletimber Well	111	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to promote black spruce regeneration. Leave cedar, hemlock, and white pine.

Next Step Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed
Treatments:

Acceptable black spruce, tamarack, cedar
Regen:

Other Harvest during dry or frozen conditions. Use retention where trees are much smaller diameter and/or where cedar may be too dense along the south edge. Access can be from the south through private or north through state during frozen ground.
Comment:

Proposed Start Date: 10/1 /2020

16 32059016-Cut	33.3	6122 - Black Spruce	Poletimber Well	94	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to promote black spruce regeneration. Leave cedar, hemlock, white pine, paper birch, and sugar maple.

Next Step Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed
Treatments:

Acceptable black spruce, tamarack, cedar
Regen:

Other Retention will be along the west/south edges where trees become more sparse and diameter begins to decrease. Harvest during dry or frozen conditions.
Comment:

Proposed Start Date: 10/1 /2020

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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
20 32059020-Cut	14.7	42340 - Upland Spruce/Fir	Poletimber Well	59	81-110	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to promote regeneration. Retention should include forked crown aspen. Leave cedar, hemlock, and white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable fir, aspen, birch, pine, red maple

Regen:

Other Stand is completely dry ground but access from any direction will need to be frozen.

Comment:

Proposed Start Date: 10/1 /2020

25 32059025-Cut	30.8	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	89	111-140	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to regenerate a more diverse lowland mixed forest. Retention should include some larger paper birch. Leave cedar,

Specs: hemlock, white pine, black ash, and yellow birch.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable paper birch, maple, black ash, cedar, pine

Regen:

Other Do push treatment lines into higher sugar maple ground or dense cedar areas. Harvest during frozen conditions.

Comment:

Proposed Start Date: 10/1 /2020

36 32059036-Cut	22.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	71	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to promote shade intolerant species. Exclude pockets of dense cedar and/or do not push treatment lines into adjoining

Specs: dense cedar. Retention should include forked crown aspen. Leave cedar, hemlock, white pine, and yellow birch.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, birch, mixed lowland conifers

Regen:

Other Harvest may require dry/frozen conditions.

Comment:

Proposed Start Date: 10/1 /2020

40 32059040-Cut	37.5	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	71	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to allow adequate sunlight for regeneration. Retention should include forked crown aspen and a few scattered paper birch

Specs: (green tree). Leave cedar, hemlock, and white pine.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable spruce/fir, mixed aspen, birch, lowland conifer

Regen:

Other West line was an estimation, do not push where cedar becomes too dense. Harvest during dry or frozen conditions.

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
44	32059044-Cut	26.4	4110 - Sugar Maple Association	Sawtimber Well	90	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Mark stand to 70-90 BA. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar and hemlock. Favor
Specs: diversity while marking especially basswood and paper birch.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable northern hardwoods

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

46	32059046-Cut	16.7	42340 - Upland Spruce/Fir	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to regenerate spruce/fir. Leave cedar, hemlock, white pine, black cherry, and elm.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable spruce/fir, mixed hardwoods

Regen:

Other Do not push lines into lowland cedar ground. Possible recommend dry/frozen condition harvest.

Comment:

Proposed Start Date: 10/1 /2020

47	32059047-Cut	20.3	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	90	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to promote lowland conifer species. Leave cedar, white pine, and black ash. Allow the retention for this stand to capture all
Specs: species.

Next Step Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed

Treatments:

Acceptable tamarack, black spruce, cedar, white pine, fir

Regen:

Other Start date was changed to 10/1/19 to coincide with adjacent treatments for access from the north. Access from the north may be through

Comment: saturated ground. Harvest during frozen conditions.

Proposed Start Date: 10/1 /2019

50	32059050-Cut	26.2	4110 - Sugar Maple Association	Sawtimber Well	91	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark stand to 70-90 BA. Focus on removing larger diameter, poorer quality trees first to maintain/create 60' canopy gaps. These gaps will allow
Specs: needed sunlight to release saplings. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife including trees over 24" at the stump. Leave cedar, hemlock, and elm. Favor diversity while marking especially basswood and paper birch.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable northern hardwood species

Regen:

Other This treatment is to encourage and/or establish different hardwood age classes in a stand that is currently lacking diversity and regeneration.

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
51	32059051-Cut	9.1	4130 - Aspen	Poletimber Well	53	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to promote species diversity. Retention should include fork crowned aspen and a few scattered paper birch. Leave cedar, hemlock, black cherry, maple, and yellow birch if present.

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

Acceptable aspen, spruce/fir
Regen:

Other Use extra caution to avoid damage to residual maple stems. Access may require frozen conditions.
Comment:

Proposed Start Date: 10/1 /2020

54	32059054-Cut	39.9	4110 - Sugar Maple Association	Sawtimber Well	91	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark stand to 70-90 BA. Focus on removing larger diameter, poorer quality trees first to maintain/create 60' canopy gaps. These gaps will allow needed sunlight to release saplings. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife including trees over a 24" diameter at the stump. Leave cedar, hemlock, and yellow birch. Favor diversity while marking.

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

Acceptable northern hardwood species
Regen:

Other This treatment is to encourage and/or establish different hardwood age classes in a stand that is currently lacking diversity and regeneration.
Comment:

Proposed Start Date: 10/1 /2020

65	32059065-Cut	10.1	42390 - Mixed Non- Pine Upland Conifers	Poletimber Well	61	111- 140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to promote spruce/fir and mixed hardwood regeneration. Exclude the dense pocket of cedar along the west edge and include some paper birch retention. Leave cedar, hemlock, and white pine.

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

Acceptable spruce/fir, aspen, paper birch, maple, cedar
Regen:

Other Actual treatment will be approximately 8 acres after cedar retention. Access can be from the south through private or north through state during frozen ground.
Comment:

Proposed Start Date: 10/1 /2020

403	32059403-Cut	3.4	3102 - Grass	Nonstocked			Harvest	Clearcut	3102 - Grass		Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to maintain a grass opening.
Specs:

Next Step Monitoring, Other - Specify
Treatments:

Acceptable grass opening
Regen:

Other
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
407	32059407-Cut	17.8	3102 - Grass	Nonstocked			Harvest	Clearcut	3102 - Grass		Proposal

Habitat Cut: No

Site Condition:

Prescription Harvest to a 2" spec. to maintain a grass opening.
Specs:

Next Step Monitoring, Other - Specify; Monitoring, Other - Specify
Treatments:

Acceptable grass opening
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

408	32059408-Cut	4.0	3102 - Grass	Nonstocked			Harvest	Clearcut	3102 - Grass		Proposal
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Habitat Cut: No

Site Condition:

Prescription Harvest to a 2" spec. to maintain a grass opening.
Specs:

Next Step Monitoring, Other - Specify
Treatments:

Acceptable grass
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment
Acreage Proposed: 527.6**

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 59
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		4A	5C	2G	5D
360	360	0	0	Aspen				
317	317	0	0	Cedar				
33	33	0	0	Hemlock				
46	46	0	0	Herbaceous Openland		0		
28	28	0	0	Lowland Aspen/Balsam Poplar				
70	43	28	0	Lowland Conifers		28		
81	58	23	0	Lowland Deciduous	14	9		
18	18	0	0	Lowland Mixed Forest				
153	72	0	80	Lowland Spruce/Fir		0		80
2	2	0	0	Marsh				
129	92	37	0	Mixed Upland Deciduous		37		
6	0	6	0	Natural Mixed Pines		6		
578	485	93	0	Northern Hardwood		93		
45	0	0	45	Tamarack			32	13
10	10	0	0	Upland Conifers				
37	37	0	0	Upland Mixed Forest				
31	31	0	0	Upland Spruce/Fir				
1,944	1,632	187	125	Total Forested Acres	14	173	32	93
	84%	10%	6%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	93	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Majority of BA plots are too light to thin at this time. Hold until next inventory cycle and harvest with adjacent stand 24/75/26.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 59
Year of Entry: 2021

2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Could harvest black ash and birch in the future with adjacent stand 35, easier to pick trees out of soft ground to avoid rutting damage.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand will hold well until next inventory cycle and harvest with adjacent stand 24/75/26.							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold until next inventory cycle and harvest with adjacent stand 24/75/26.							
5	Unavailable	5D: Unproductive Forest Land	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Sparse tamarack with patches of cedar and alder.							
6	Available	4A: No Markets Available for these Forest Products	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Any merchantable trees are very sparse and too far declined for harvest. Leave to allow dense sapling understory to convert to a younger lowland hardwood stand.							
7	Unavailable	5D: Unproductive Forest Land	80	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stunted black spruce bog.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 59
Year of Entry: 2021

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments: Majority of stand is too wet or unproductive.							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Low BA and saplings in understory.							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense saplings across stand, sparse overstory across majority.							

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
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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	6122 - Black Spruce	Sapling Well	17.4	55	51-80	N/A	Dense young black spruce sapling/pole sized trees with dense flush of fir and some mixed pine saplings. Some areas have scattered older lowland conifer that may have been left from past harvests but a majority is young and small diameter yet. More of an upland black spruce type with pockets of lower ground with some alder brush. Alder drainage in southwest meanders through the south.OPIC - FMD: Small balsam. Scattered cedar in among the small balsam and spruce. Areas of L and cattails. Old beaver activity.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Black Spruce		50	Sapling/Pole	4	55	Balsam Fir		Medium	10 - 20 feet	Sapling
Balsam Fir		25	Sapling/Pole	2		Red Pine		Low	10 - 20 feet	Sapling
Tamarack		9	Pole	9		White Pine		Low	10 - 20 feet	Sapling
						Alder		Trace	5 - 10 feet	Tall Shrub
2	4319 - Mixed Upland Forest	Poletimber Well	11.9	55	111-140	N/A	Dense fir ready for harvest with scattered very large diameter aspen and large poor quality mixed maple. Some patches of maple saplings found in the understory. More maple in the south half and more dominant to fir with large aspen and some paper birch in the north half.OPIC - FMD: Large maple, and a few large w. pine with fir under . Fir 4". Not ready for thinning.			
Canopy Species		% Cover	Size Class	DBH	Age					
Balsam Fir		35	Pole	7	55					
Sugar Maple		25	Log/XLog	16	86					
Red Maple		15	Log	16						
Quaking Aspen		12	Log	15						
3	4319 - Mixed Upland Forest	Sawtimber Well	24.7	91	111-140	N/A	A little high ground, a little low ground (mainly north half) mix. Large, poor quality red maple. Fir ranges from small barely merchantable trees to 10"+ in diameter, a lot are declining but it should hold fine until harvest. More fir found in the north half. A small patch of dense cedar is located in the northeast corner. Small ridge with large pine along the north border. Some black spruce along the edges and scattered within. OPIC - FMD: W7W8F5. Small fir 1-2 stick with scattered large w. pine. Some hardwood residual too. Wait to cut fir in 30 years or so. M.O. is for pine.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
White Pine		18	XLog	30		Red Maple		Low	10 - 20 feet	Sapling
Balsam Fir		15	Pole	7	55	Sugar Maple		Low	10 - 20 feet	Sapling
Paper Birch		15	Log/Pole	10						
Red Maple		27	Log/XLog	16	91					
Hemlock		10	XLog/Log	18						
4	6124 - Lowland Spruce-Fir	Poletimber Well	22.4	69	81-110	N/A	Very diverse lowland mix. Fairly young good quality, larger diameter black spruce. Scattered patches of nearly merchantable aspen, 3"-5". Higher dry humps within lowland ground, especially in the east half, and patches of alder. Dense cedar in the center of the stand with more birch and lowland aspen mixed in the east half. OPIC - FMD: Somewhat sparse with alder under. Small tamarack and spruce mostly with some w. birch and patches of cedar.. More cedar north.Q5 areas especially north.			
Canopy Species		% Cover	Size Class	DBH	Age					
Black Spruce		35	Pole/Log	8	69					
Red Maple		8	Log	10						
White Spruce		8	Pole/Log	9						
Balsam Fir		14	Pole	7						
Northern White Cedar		30	Log/Pole	10						
5	4110 - Sugar Maple Association	Sawtimber Well	28.2	91	111-140	N/A	Hardwood log flat. Some regen in the understory. 120 110 100 80 130 Average of 115 BA.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		10	Log/Pole	12						
Basswood		15	Log	16						
Sugar Maple		69	Log	14	91					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
6	4110 - Sugar Maple Association	Sawtimber Well	60.0	91	111-140	N/A	Maple log stand with dense maple saplings, larger sized saplings in areas with canopy gaps. Stand ranges from patchy dense areas to more uniform very large logs to areas with larger canopy gaps. Slope and ridge hemlock pockets within. There is a small 3 acre strip of aspen in the southeast corner that was cut in 1985 and a bit more aspen cut along the northeast edge in 1994. Moderate rolling terrain. More open canopy with lighter BA in the northeast. 120 110 160 100 100 Average of 120 BA.OPIC - FMD: cut 2001 aspen lumber (Wickman) permit #15-01-01.High quality sawlog stand. Good regeneration of sugar maple in most areas 3-6' tall. Hemlock areas and hemlock throughout. Mostly sugar with basswood, y. birch, red maple as well as hemlock.																																				
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7	42350 - Upland Hemlock	Sawtimber Well	18.0	111	171-200	N/A	Large diameter hemlock log stand with large hardwood mixed in. Most area is on slopes or ridgetops. 180 240 170 Average of 200 BA.OPIC - FMD: Thinned 1985, some hardwood was cut. Mostly hemlock with some large hardwood. No understory. Scenic. Mostly North side of ridge.																																				
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8	42290 - Natural Mixed Pine	Sawtimber Medium	5.9	111	51-80	N/A	Large scattered pine. Small fir poles, aspen, and red maple saplings in the understory. Some maple is found along the north border.OPIC - FMD: cut all but pine in 2001 permit#15-01-01 aspen lumber(Wickman). F3 under with some pine coming in. Some areas lower BA. W9W7R8R7.																																				
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9	4130 - Aspen	Sapling Well	48.9	25	Immature	N/A	Young aspen stand. Lower flat area that receives water from surrounding hardwood stands. Pockets of low black ash saplings and some soft drainage areas within. Roads are grown in and nearly impassible by ORV/snowmobile. Recommend dry or even frozen conditions for future harvests. OPIC - FMD: Cut 1994 Permit 20-91-01. ORO logging. 2" dbh well-stocked. A few scattered residual w. pine. Not a lot of conifer seeding in.																																				
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10	6121 - Tamarack	Poletimber Medium	13.1	109	51-80	N/A	Lowland tamarack stand. Alder borders the edges and fills in any openings within. Scattered black spruce and cedar throughout. Very wet stand with sparse trees. OPIC - FMD: Some spruce and tamarack S6S5. Small and patchy. Cedar throughout.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
11	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	23.7	90	51-80	N/A	Some rugged terrain with wet pockets and little knobs with upland cedar and hemlock. Sparse canopy across majority of the stand, dense to hardwood saplings in most areas filling in any gaps. Lower BA.																																					
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12	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	28.2	59	111-140	N/A	Nice aspen and paper birch. Dense fir understory, most barely merchantable (1-2 sticks) with a decent component of larger fir mixed in (5+ sticks), some mortality in fir is beginning to occur. A narrow alder drainage cuts off a small pocket in the northeast, will need mats or winter harvest to access (possible retention). Large red pine found bordering the lowland stand. Paper birch and upland cedar are more abundant on the south finger. Some areas dense to fir poles under aspen had 200 BA of merchantable trees. OPIC - FMD: Merchantable but young yet. Scattered Hemlock and w. pine. W. Birch regenerated and looks good.																																					
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13	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	41.6	91	111-140	N/A	Heavy to sugar maple saplings 2"-3" in diameter scattered across entire understory. Scattered maple logs, poor to moderate quality. Paper birch and aspen is beginning to decline and will not hold, it must be harvested this cycle or it will be lost. A good majority of the BA is from larger hemlock, white pine, and paper birch. 110 110 120 120 110 Average of 115 BA. OPIC - FMD: Heavy cut in 1976. Some big W. Pine.M5M3 in spots. Good M2 2" dbh.BA almost there for thinning.Could cut out mature W. Birch and defective maple. Protect regen and will have a good 2 aged hardwood stand. Nice w. pine. Hemlock patches.																																					
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14	6122 - Black Spruce	Poletimber Well	21.2	111	81-110	N/A	Lowland conifer bog. Larger diameters around edge, smaller average diameter towards center but still 3-6 stick trees. Solid to black spruce in the center area. Narrow vein of cedar along the south edge is all operable.OPIC - FMD: Small 2-stick interior with scattered larger trees on edge. Mostly well-stocked. Some areas heavy to tamarack.																																					
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15	6122 - Black Spruce	Poletimber Medium	80.7	101	1-50	N/A	Stunted black spruce bog. OPIC - FMD: spruce bog, small trees non-merchantable.																																
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16	6122 - Black Spruce	Poletimber Well	33.3	94	81-110	N/A	Nice lowland conifer stand. Ranges from dense areas of black spruce and tamarack to some patchier areas. Diameter decreases in the south half towards lower ground. Somewhat sparse along south/west adjacent stands which can be excluded for retention. More diversity along upland edges. OPIC - FMD: sparse along stand 20. Some Q areas. most areas small 2-4 stick spruce. Most of the merchantable trees are within 3 chains of the edge. Wide part of stand more Q.																																
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17	6121 - Tamarack	Poletimber Well	31.8	69	81-110	N/A	Open flooded area with cattails, younger saplings/poles of tamarack, black spruce, and standing dead cedar in the west half. A better portion of this stand may be unproductive and too wet. OPIC - FMD: Somewhat sparse with alder under. Small tamarack and spruce mostly with some w. birch and patches of cedar.. More cedar north.Q5 areas especially north.																																
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18	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	8.8	90	81-110	N/A	Low ground depression drainage area within hardwoods. Black ash west, cedar and birch east, sparse with saplings in the center. Look at possible harvest with stand 35 in the future.																																
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19	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Poor	14.3	90	51-80	N/A	Wet lowland hardwoods stand. Very sparse dead/declining birch and aspen. Dense saplings including black ash and mixed aspen/hardwoods. Let this stand convert naturally to a younger lowland hardwood stand.																																
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20	42340 - Upland Spruce/Fir	Poletimber Well	14.7	59	81-110	N/A	Patchy dense fir. A lot of fallen dead trees, lots of decline in fir. Some scattered large white pine and maple. A small patch of aspen/birch is in the south tip. Access is through a swath of cedar from the north. OPIC - FMD: Long term MO is White pine. 2-4 stick fir well-stocked, very thick in fact. Big w. pine and pole size red maple overstory. Wait for fir to mature and cut again.																																
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21	4115 - Y.Birch, Hemlock NH	Sawtimber Well	72.1	91	51-80	N/A	Sugar maple log stand with denser patches of hemlock scattered across the stand. Many very large diameter sawlogs with a good mixture small sawlogs and areas with poles. Dense maple regen found across the entire stand, larger diameter within openings. Larger diameter saplings/poles have responded well to the more open canopy patches. 90 80 80 50 70 Lower average BA of 75 which is much higher in the dense hemlock patches.OPIC - FMD: cut in 2001 aspen lumber (Wickman) permit#15-01-01. High quality log stand, mostly sugar maple. Patches of larger hemlock. Also scattered hemlock and w. pine. Good regeneration of sugar maple 3-6' tall. Some taller in gaps.																																				
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22	6233 - Wet Meadow	Nonstocked	2.2			No	Marsh pothole with alder along the edge. Seasonally flooded with water.OPIC - FMD: Mostly wet grass type vegetation, flooded in spring.																																				
23	6112 - Lowland Aspen	Sapling Well	27.6	18	Immature	N/A	Aspen sapling stand with softer wet ground. Drainages found within. OPIC - FMD: Part of this stand is uncut from 2001 sale permit #32-017-01-01 Sanville. Uncut area was added to P type since it was wetter. This stand is mostly well-stocked with aspen 1" dbh 10-15' tall. Some wetter areas are non-stocked, but overall an A3 stand.																																				
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24	4115 - Y.Birch, Hemlock NH	Sawtimber Well	93.2	86	111-140	N/A	Hardwood log stand with excellent maple regeneration averaging 20' tall. Large trees with large canopies. Saplings would respond good if gaps were created. Large hemlock found in dense patches, especially along the edges, and scattered across the stand. Any paper birch is dead or declining. This stand could be thinned light or held until 2031 cycle. 110 100 130 130 90 110 90 Average of 115 BA. OPIC - FMD: Selection harvest 1981. Cut again 2003-2005 Besse with various subcontractors, High quality. Underplanted with hemlock 2005.Good sugar maple regeneration 3-4' tall in gaps. Ridge tops mostly raspberry under. West big w. pine and some red pine poles. Also M4 in that area with some aspen regen and a bit of pine regen. Hemlock patches. Most of this stand is an excellent quality hardwood sawlog stand. Some Basswood, red maple, yellow birch. Some white ash with white ash regeneration. A former open area is added to this stand as it has filled in with established M3.																																				
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25	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	30.8	89	111-140	N/A	Dense across entire stand to paper birch. Smaller diameter birch poles in the south with larger diameter trees in the north 3/4. Birch is in decent shape yet but is on the verge of declining very soon. Cedar is speckled in, becoming dense in the south tip of the stand. Wet ground across majority of stand. OPIC - FMD: Mostly mix of C and P type. Overall Q, low and wet. Mostly medium sized cedar with small w. birch. W. birch dropping out due to mortality and converting to cedar.																																				
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26	4199 - Other Mixed Upland Deciduous	Poletimber Well	13.1	59	81-110	N/A	Mixed aspen and hardwoods. Harvest with adjacent stands in YOE 2031.OPIC - FMD: An old wildlife cut is here. Scattered Big H,W.P., and C. Otherwise aspen is in good shape. Cut on private to south. Should clearcut but leave w. pine and any hemlock. Some nice hardwood is here but is not well-stocked with hardwood. Possible to leave some larger maple in harvest for diversity. Farther north in stand is more aspen and fir only. ***Possible HAL site within - drop treatment.																												
27	6120 - Lowland Cedar	Poletimber Well	76.1	109	111-140	N/A	Very dense to cedar especially away from the edges. More diversity around the edges with very large white spruce and balsam poplar. Small patchy black spruce pockets. More birch mixed in the east 1/4 of this stand but cedar is still to dense for harvesting operations.OPIC - FMD: Mix of cedar and spruce. Overall Q. Some poorly stocked areas but mostly well-stocked. Alder understory. Smaller trees 2-3 stick especially south.																												
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28	4130 - Aspen	Sapling Well	68.4	25	Immature	N/A	Sapling stand solid to aspen, some hardwood saplings along the edges. Some soft ground in areas including most roads. Drainages found within. Should be dry/frozen harvest in the future. OPIC - FMD: Cut permit # 22-91-01. Well-stocked aspen 2-4" dbh. Smaller conifers and hardwoods mixed in.																												
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32	4110 - Sugar Maple Association	Sapling Medium	10.2	16	1-50	N/A	Scattered residual hardwoods and conifer. Dense sapling cover of sugar maple with some birch, ironwood, and red maple saplings mixed in. Seems to be area of softer ground. OPIC - FMD: Cut 2003 Besse permit #16-01-01 with various subcontractors. Left Birch, hemlock, w.pine, hardwood. Some area may come back to Balsam poplar but looking to increase w. pine, w. birch. M4M5, wet in spots. A3 areas as well as good sugar regen on higher ground.W. birch regeneration too.																												
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34	4130 - Aspen	Sapling Well	45.1	7	Immature	N/A	Well stocked aspen sapling stand. Larger white spruce and maple poles scattered within. Cattail depressions and drainages within stand. OPIC - FMD: Mature aspen well-stocked with some areas of blowdown especially on clearcut edge. Areas of w. birch but mostly aspen throughout. Some nice hardwood in stand but not well-stocked with hardwood. Possible to leave some hardwood for diversity or visual values, especially along roads. Some cedar patches to exclude. ***Stand harvested as "Exclusions Hardwoods" #009-11-01 - cut summer, 2012. Only 47 acres were harvested, and the remainder left as retention/exclusions (5 acres - see wildlife comments) with an additional 1 acre excluded due to heavy A/P blowdown. Larger white spruce was retained, as well as any maple stems and a few marked paper birch.																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
35	4110 - Sugar Maple Association	Sawtimber Well	172.3	91	81-110	N/A	Long, rolling hardwood ridge spanning across the entire compartment. Patchy ironwood regen in the south transitioning to more maple saplings to the north, lighter BA areas are more abundant with saplings. The north half has excellent maple sapling recruitment, 2-3"+. Red maple is more abundant in lower ground transitions and flats along the adjacent cedar stand. A rocky drainage will have to be excluded which cuts east/west across the center of this stand. Also multiple smaller drainages with black ash and saplings are found within that may need to be excluded. 100 120 80 80 100 100 110 80 90 70 Average of 95 BA.OPIC - FMD: Stand thinned as "Exclusion Hardwoods" #009-11-01 - cut summer, 2012. All cedar and hemlock were left. A small portion of the stand was not treated (within Unit1) - heavy hemlock area (270 BA) at the NW end of stand and an M5/M6 area continuing west, which would be accessible from the adjacent compt.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		10	Log/Pole	12			
Sugar Maple		69	Log	14	91		
36	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	22.0	71	111-140	N/A	Declining paper birch and mixed aspen. Large spruce/fir in good shape. Wet ground along the edges. The west half of this stand has some higher ground and more aspen, the east half gets lower and has more paper birch and cedar.OPIC - FMD: North and west some spruce areas but mostly cedar. Well-stocked above average DBH but somewhat twisty especially away from high ground a ways. Some areas have thick F3 under. Areas of Q but stand is mostly cedar.
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		15	Pole/Log	9			
Paper Birch		15	Log/Pole	10	71		
38	4110 - Sugar Maple Association	Sawtimber Well	25.4	90	81-110	N/A	Sugar maple log stand with varying BA across the stand. No maple regen, patchy moderate ironwood regen. A narrow lowland drainage cuts off the north bubble. Some patches need thinning but overall stand has a low average BA, leave until next cycle. 70 140 130 70 100 90 Average of 100 BA.OPIC - FMD: Thinned 1994 Permit # 22-91-01.Good quality potential but still some poor quality to remove. Ready for another thinning, however some areas not much to remove due to existing BA. Low spot in stand at base of peninsula is mostly ash and cedar. South part of stand is an old "wildlife" cut which now has good regeneration 2-4" with scattered larger cedar and maple. Not much existing regeneration in the main part of stand due to higher BA. ***Stand harvested as "Exclusion Hardwoods" #009-11-01 (Unit 6) - ~15 acres of stand treated; remainder (NE tip) had no good access across wet areas and contained lower stocking, so was avoided.
Canopy Species		% Cover	Size Class	DBH	Age		
Basswood		8	Log	16			
Sugar Maple		81	Log	14	90		
Canopy Species		Density	Avg. Height	Size			
Ironwood		Low	10 - 20 feet	Sapling			
40	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	27.5	71	81-110	N/A	Diverse mix of upland/lowland species. Densely stocked, good quality conifers. Dense spruce fir around edges with more hardwood mixed interior. Some aspen and birch decline. Different age classes of conifer.
Canopy Species		% Cover	Size Class	DBH	Age		
White Spruce		10	Log/Pole	10			
Balsam Fir		10	Pole	7	71		
Paper Birch		15	Log/Pole	11			
Quaking Aspen		17	Log	12			
Balsam Poplar		10	Pole/Log	9			
Northern White Cedar		8	Pole/Log	9			
							OPIC - FMD: Mix of Q type and upland spruce/fir. 3-4 stick on the fir and aspen. Wait 10 years to clearcut upland aspen and sp/fir. Exclude Q areas. Maybe 1/2 of stand is lowland.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
43	6120 - Lowland Cedar	Poletimber Well	240.6	119	111-140	N/A	Lowland conifer stand very dense to cedar. Little diversity within. OPIC - FMD: North and west some spruce areas but mostly cedar. Well-stocked above average DBH but somewhat twisty especially away from high ground a ways. Some areas have thick F3 under. Areas of Q but stand is mostly cedar.																													
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44	4110 - Sugar Maple Association	Sawtimber Well	34.5	90	111-140	N/A	Good quality sugar maple. Ranges from areas with no regen, to heavy browse, to dense established saplings. Long narrow finger, approximately 7 acres, on the north end is a narrow ridge in between lowland areas and is more abundant to paper birch and moderate quality red maple with aspen mixed in. 120 100 120 90 130 Average of 115 BA. OPIC - FMD: Thinned 1994 permit # 21-91-01. Good quality. Mostly small log stand. Good regen of sugar maple in gaps. Ready for another light thinning. ***Stand harvested as "Exclusion Hardwoods" #009-11-01 - cut summer, 2012 (Unit 8).																													
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45	4130 - Aspen	Sapling Well	23.8	14	Immature	N/A	Aspen sapling stand with scattered remnant sugar maple. A small cedar depression along the north edge. Access road from north is bermed and growing in dense with tamarack and shrubs. OPIC - FMD: Aspen cut 1/05 by st. John permit #18-01-01. Scattered white pine and cedar are left standing. A3 well-stocked up to 1" dbh.																													
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46	42340 - Upland Spruce/Fir	Poletimber Well	16.7	85	81-110	N/A	Dense stand of larger spruce/fir bordering lower ground, very nice conifer quality and very dense. Most of the stand is higher dry ground, there may be some lower soft spots along the edges. Mixed hardwood/aspen speckled within. Black spruce and some white spruce around 85 years old, fir is around 59 with some younger. OPIC - FMD: Spruce/fir stand with some scattered aspen. Some Balsam poplar and other hardwoods. Former open area seeding in. Mostly upland black spruce 2- 3 stick. Thick F3. Couple small patches of aspen or maple.																													
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47	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	20.3	90	51-80	N/A	More of an open understory bog stand. Tamarack dominant around the edges with more black spruce towards the center. Spruce/fir saplings scattered throughout. Fir is more dominant in the far east tip. BA can be over 100 near the edges or where trees are more dense, and lighter towards the middle or open patches, around 40 BA in areas. Some cedar along the edges. OPIC - FMD: S3 and S6 in spots but mostly Q4 or Q5. Small trees scattered over thick alder, ash, and fir.																													
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50	4110 - Sugar Maple Association	Sawtimber Well	26.2	91	111-140	N/A	<p>Hardwood log stand with larger diameter trees. Quality decreases as elevation lowers towards lowland stands. Scattered hemlock within and cedar around the edges. Fairly dense sapling understory more dense to sugar maple in the south to ironwood in the north. Some areas have a more open canopy with excellent sugar maple sapling recruitment. 160 150 120 140 Average of 140 BA.</p> <p>OPIC - FMD: Cut permit 23-91-01. Good quality. Not quite ready for thinning most areas. Good gaps with regeneration up to 2" dbh. 1/4 of stand is BA 100 sq.ft or over, 3/4 of stand is only 80 square feet.</p>																									
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51	4130 - Aspen	Poletimber Well	9.1	53	81-110	N/A	<p>Include stand 43/51 in the adjacent compartment when harvesting this one. Nice aspen stand with fully stocked sugar maple understory (2"-3" diameter). Access road is very wet, will probably need to be a dry/frozen condition harvest due to access issues.</p> <p>OPIC - FMD: Patch of larger but still young aspen 3-4 stick. Residual cedar. Merchantable but still not quite mature. Very diverse stand with some hardwood. Could manage with compartment east.</p>																									
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52	4130 - Aspen	Poletimber Well	133.7	39	51-80	N/A	<p>Good quality aspen, larger diameter for younger age. Some more open patchy areas are scattered within. Some mixed hardwood species are found mostly along the edges of bordering stands.</p> <p>OPIC - FMD: A6 well-stocked 2 stick mostly. Some swales with willow, fir poorly stocked.</p>																									
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54	4110 - Sugar Maple Association	Sawtimber Well	39.9	91	111-140	N/A	<p>Good quality sugar maple log stand. Majority of trees are very large diameter (18"+) with areas of densely grown poles. some paper birch found in the southwest. Moderate-light sapling understory of 2"-3" trees, not much for younger regen. 140 170 100 120 Average of 140 BA.</p> <p>OPIC - FMD: Cut permit 23-91-01. Good quality. Some older regen 3" and younger 6' tall. 2 cohorts here, good regen both. BA not ready for another thin.w</p>																									
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55	4130 - Aspen	Poletimber Well	16.7	35	51-80	N/A	<p>Lower drainage strip of aspen connecting a cedar stand. Wet access road through stand with wet ground and some drainage areas from adjoining high ground throughout. Some large white spruce scattered within. Abundant understory of maple saplings in the south half.</p> <p>OPIC - FMD: A3 well stocked most areas. 4" dbh. areas of M3 2" along hardwood stand. Aspen is almost pole sized. Some smaller conifer.</p>																									
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56	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	18.4	89	141-170	N/A	<p>Dense, evenly stocked paper birch logs and very dense cedar poles with other minor species mixed in. Black spruce more abundant in east tip with dense, large spruce/fir in transition to higher ground. Too dense to harvest the west 3/4 of the stand without cutting or damaging a majority of cedar. Should harvest east tip while in the area. OPIC - FMD: Mostly cedar with scattered overstory of white birch and aspen. Ash areas. Well-stocked with very few gaps. Adjacent to wetter portion of hardwood thinned in past.</p>																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
57	4110 - Sugar Maple Association	Sawtimber Well	16.3	91	81-110	N/A	Steep, long hardwood log ridge. Poorly spaced, some areas with an open canopy and some areas have tightly grown log trees. Poor-mid quality trees. Lots of ironwood regen with some patchy maple regen as well. An old skid road skirts the entire stand on the bottom of the hillside. There is a strip of younger paper birch/mix in the northwest corner and around the edges. Wet access from the west through a lowland area. 100 110 140 70 90 Average of 100 BA. OPIC - FMD: . Thinned under permit #32-024-06-01 roy Nelson after 4 years uncut from previous contract 32-039-01-01 Jacobson. Good quality. No new regen but older 2-4" released. Adequate suger most gaps, but some ironwood.																														
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58	4130 - Aspen	Sapling Well	14.8	20	Immature	N/A	Aspen sapling stand. OPIC - FMD: Cut with adjacent compartment in 1999. Well-stocked aspen 1" dbh. Not much conifer yet, except some residual fir patches.																														
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60	42350 - Upland Hemlock	Sawtimber Well	14.9	101	171-200	N/A	Dense to hemlock. No regen in the understory. 210 170 Average of 190 BA.OPIC - FMD: Fringe of hemlock. Some hardwood cut in past thinnings with adjacent hardwood stand. Larger trees, no regen.																														
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65	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	10.1	61	111-140	N/A	Nice spruce/fir stand. Pocket of solid cedar centered in this stand connects into the adjoining compartment. Poor quality hardwoods. Fir is larger diameter and in good shape yet.																														
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75	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	27.8	87	81-110	N/A	Lowland to upland transition stand. Nice patches of tamarack. Patchy cedar can be operated around. More open canopy along the south edge and no harvestable trees. Small vein of black spruce in the northwest.OPIC - FMD: Mix of cedar and spruce. Overall Q. Some poorly stocked areas but mostly well-stocked. Alder understory. Smaller trees 2-3 stick especially south.																														
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400	3102 - Grass	Nonstocked	1.1			No	Grass opening with no saplings.																														
401	3102 - Grass	Nonstocked	1.6			No	Very few aspen and conifer saplings.																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
403	3102 - Grass	Nonstocked	3.4			No	Conifer saplings growing across entire opening, 10' tall, also some aspen saplings.OPIC - FMD: DISC/SEED RYE/CLOVER/ORCHARDGRASS-1984
404	3102 - Grass	Nonstocked	1.1			No	Grass opening growing in with conifer. OPIC - FMD: DISC/SEED RYE/CLOVER/ORCHARDGRASS-1984
405	3102 - Grass	Nonstocked	3.0			No	Grass opening with no woody vegetation.
407	3102 - Grass	Nonstocked	17.8			No	Large conifer growing within. OPIC - FMD: DISC/SEED RYE/CLOVER/ORCHARDGRASS-1984
408	3102 - Grass	Nonstocked	4.0			No	Growing in with good quality Christmas trees.OPIC - FMD: DISC/SEED- 1983 1986 9-88
409	3102 - Grass	Nonstocked	2.0			No	
410	3102 - Grass	Nonstocked	1.0			No	Opening with some saplings growing in. OPIC - FMD: 1 AC RESEEDED 1986
411	3102 - Grass	Nonstocked	1.7			No	Grass opening. OPIC - FMD: OI Stand Year Origin was
412	3102 - Grass	Nonstocked	7.2			No	Grass opening with no woody vegetation encroaching. OPIC - FMD: 5 AC OPENING DISC/SEED RYE/CLOVER 1986
413	3102 - Grass	Nonstocked	1.6		Immature	No	Opening with some tamarack/spruce/fir growing in. Patchy raspberry.OPIC - FMD: 3 AC OPENING DISC/SEED RYE/CLOVER 1986