Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32086
Entry Year 2022
Acreage: 1,917
County Marquette
Management Area: Dead Horse Moraines

Revision Date: 2020-07-23

Stand Examiner: Eric Brolin

Legal Description:

T. 43 N. - R. 24 W. Sections 1, 2, and 3

Identified Planning Goals:

To maintain forest health, diversity and sustainability while considering wildlife, fisheries, recreational and environmental needs and concerns.

Soil and topography:

Munscong, Bergland and Ogemaw, Carbondale-Rifle-Spaulding Peat and Trenary sandy loam. Mostly flat with a few upland ridges.

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

State ownership on three sides, with private on the east.

Unique Natural Features:

Potential for northern goshawk and red-shouldered hawk. Potential for bald eagle, osprey, and great blue heron rookery. Potential for black-backed woodpecker and spruce grouse. Potential for moose and wolf. Potential for frigga fritillary, freija fritillary, and red-disked alpine. Potential for calypso orchid, rayless mountain ragwort, and rams head lady's-slipper in conifer swamps.

Archeological, Historical, and Cultural Features:

N/A

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Compartment 086 is found within the Dead Horse Moraines Management Area; on Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include Northern Hardwood, Aspen, and Mixed Lowland Conifer. This management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area. The most significant wildlife management issues in the management area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); course woody debris, early successional forest, and deer wintering complexes.

The following have been identified as featured species for the Dead Horse Moraines Management Area: black bear, pileated woodpecker, ruffed grouse, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest active sand/gravel pit is more than five miles away. There is good potential for limestone in this area, but wetlands and a shallow water table could inhibit surface mining in the compartment. The potential for metallic minerals beneath the compartment is unknown. There has been no documented past metallic mineral exploration within the compartment. Some cores samples have been collected from the area, but none penetrated beneath the Paleozoic sediments. Any metallic minerals beneath the compartment are buried beneath a relatively thick sequence of Paleozoic sediments and would be more costly to mine compared to the resources historically mined at or near the surface. There is no current state mineral leasing activity in this area.

Vehicle Access:

Fair road along east/southeast edges, seasonally flooded but solid base. Poor access across much of central/west areas with bermed roads, grown in trails, and beaver flooding areas.

Survey Needs:

None

Recreational Facilities and Opportunities:

Snowmobiling, 4-wheeling, hunting.

Fire Protection:

Compartment is within the Gwinn protection area. Besides a fair road along the east/southeast border, vehicle access across a majority of this compartment is soft and very limited to larger wheeled vehicles. About 35 minutes from Gwinn Field Office.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

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

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

Report 1 – Total Acres by Cover Type and Age Class

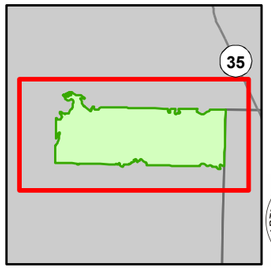
Gwinn Mgt. Unit **Compartment 86** **Year of Entry 2022**

Eric Brolin : Examiner

Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	38	124	144	154	69	43	0	59	0	0	0	0	0	0	0	0	0	**631**
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	919	0	0	0	0	0	**919**
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**7**
Lowland Conifers	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**26**
Lowland Shrub	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**134**
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	10	26	0	0	0	0	0	0	**36**
Northern Hardwood	0	0	0	0	0	0	0	0	0	95	0	0	0	0	0	0	0	0	**95**
Paper Birch	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	**13**
Tamarack	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	**26**
Water	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**29**
Total	**170**	**38**	**124**	**170**	**154**	**69**	**43**	**0**	**59**	**135**	**10**	**26**	**919**	**0**	**0**	**0**	**0**	**0**	**1916**

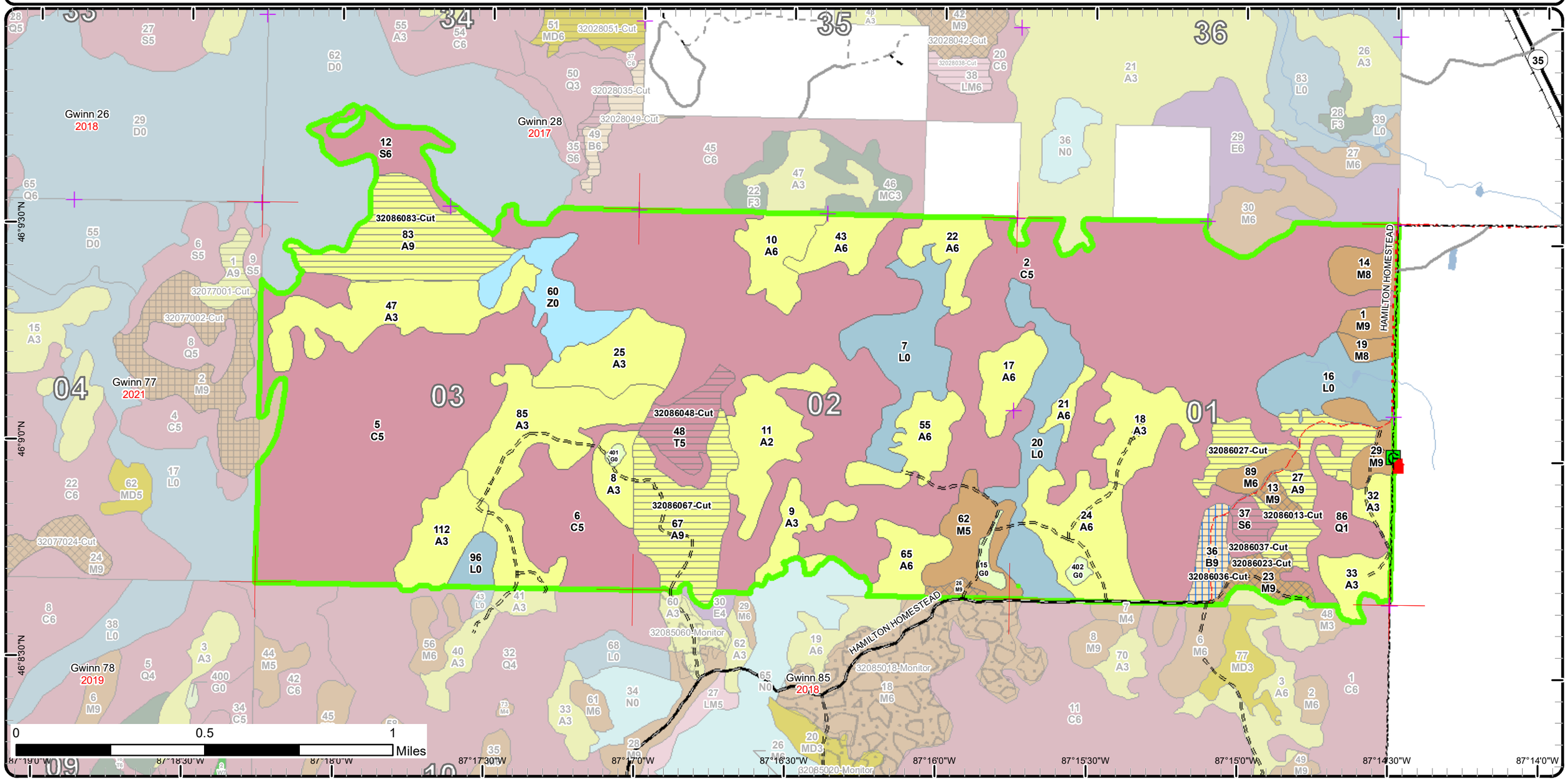
Cover Type & Treatments Map



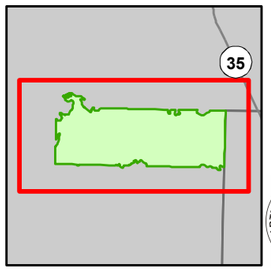
N

Compartment: 86
T44N, R24W, Sec. 34
T43N, R24W, Sec.1-4. 10-12
County: Marquette
Unit: Gwinn
Mgmt Area: Dead Horse Moraines
YOE: 2022
Acres: 1917.2 GIS Calculated
Examiner: Eric Brolin
Map Revised: 3/3/2021
Map Phase: Post-Review

- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Cabin
- Gate
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub

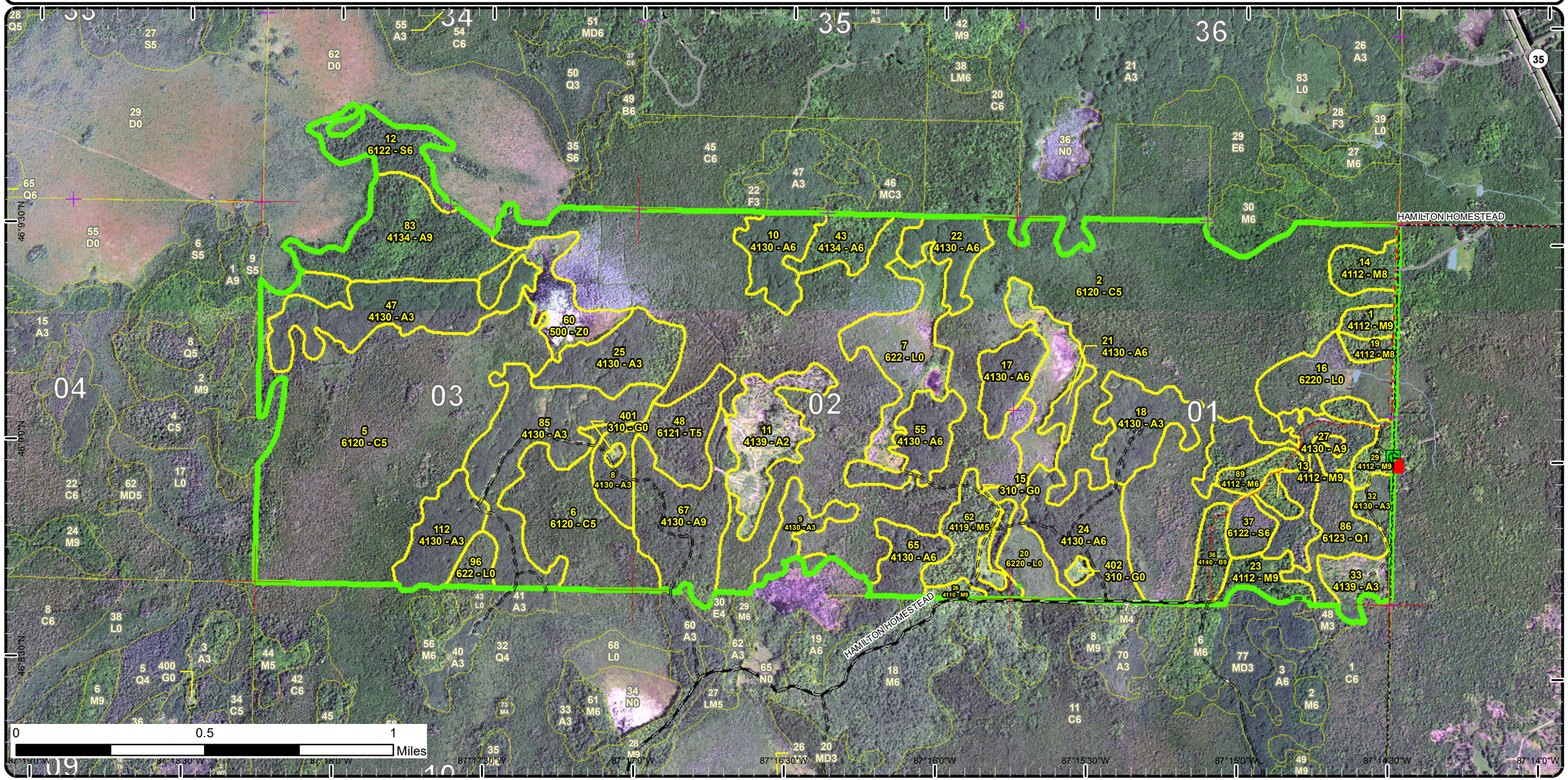


Stand Boundary Map

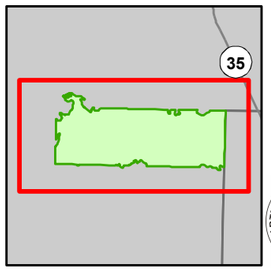


Compartment: 86
T44N, R24W, Sec. 34
T43N, R24W, Sec.1-4. 10-12
County: Marquette
Unit: Gwinn
Mgmt Area: Dead Horse Moraines
YOE: 2022
Acres: 1917.2 GIS Calculated
Examiner: Eric Brolin
Map Revised: 3/3/2021
Map Phase: Post-Review

- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Cabin
- Gate
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
  - 411 - Northern Hardwood
  - 413 - Aspen
  - 414 - Other Upland Deciduous
  - 612 - Lowland Coniferous Forest
  - 310 - Herbaceous Openland
  - 500 - Water
  - 622 - Lowland Shrub



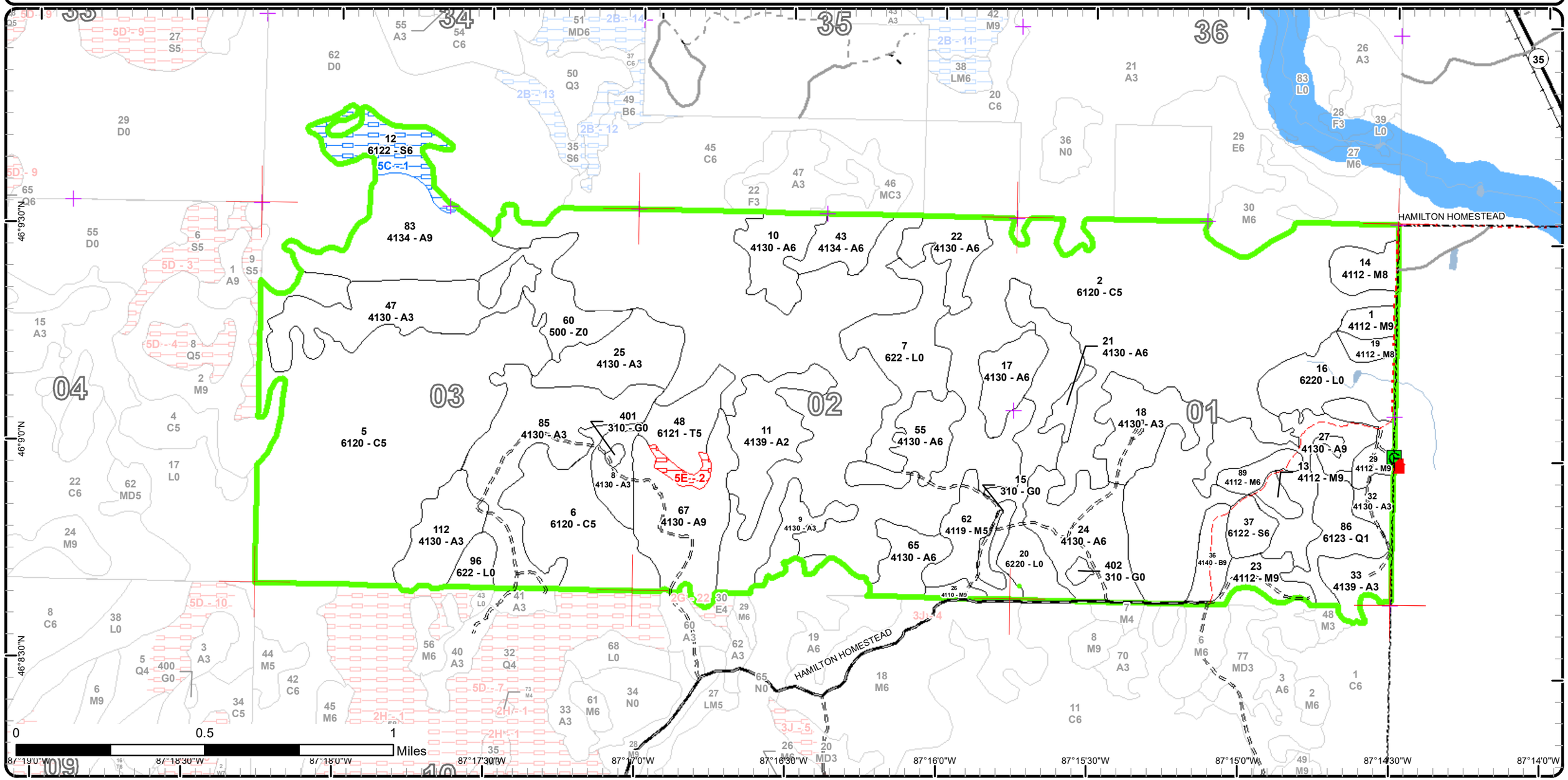
Special Conservation Areas



N

Compartment: 86
T44N, R24W, Sec. 34
T43N, R24W, Sec.1-4. 10-12
County: Marquette
Unit: Gwinn
Mgmt Area: Dead Horse Moraines
YOE: 2022
Acres: 1917.2 GIS Calculated
Examiner: Eric Brolin
Map Revised: 3/3/2021
Map Phase: Post-Review

- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Cabin
- Gate
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries
- High Priority Trout Stream Buffer



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 86

Total Compartment Acres: 1,917

Commercial Harvest - 217

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	154	0	0	0	0	0	0	0	0	**154**
Lowland Spruce/Fir	7	0	0	0	0	0	0	0	0	**7**
Northern Hardwood	0	22	0	0	0	0	0	0	0	**22**
Paper Birch	0	0	0	13	0	0	0	0	0	**13**
Tamarack	22	0	0	0	0	0	0	0	0	**22**
Total	**183**	**22**	**0**	**13**	**0**	**0**	**0**	**0**	**0**	**217**

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	217	0	0	0	0	0	0	0	0	**217**
Next Step	0	0	0	0	0	0	217	0	0	**217**
Total	**217**	**0**	**0**	**0**	**0**	**0**	**217**	**0**	**0**	**434**

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut

Approved Treatments:

13	**32086013-Cut**	4.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	87	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No

Prescription Specs: Mark stand to 70 - 90 BA. Focus on improving quality and creating canopy gaps to encourage hardwood regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar and hemlock. Favor species diversity, especially yellow birch, while marking.

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

Acceptable Regen: northern hardwood

Other Comment: Larger 50' - 60' canopy gaps seem to produce regen in nearby hardwood stands.

Site Condition

Proposed Start Date: 10/1 /2021

23	**32086023-Cut**	13.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	87	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No

Prescription Specs: Mark stand to 70 - 90 BA. Focus on improving quality while maintaining / creating canopy gaps to release and encourage hardwood regeneration. Leave some large future snag trees for wildlife. Leave cedar and hemlock. Favor species diversity, especially birch species, while marking.

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

Acceptable Regen: northern hardwood

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

26	**32086026-Cut**	3.6	4110 - Sugar Maple Association	Sawtimber Well	87	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No

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

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

Acceptable Regen: northern hardwood

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
27	32086027-Cut	43.2	4130 - Aspen	Sawtimber Well	50	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No

Prescription Specs: Harvest to a 2" spec to promote aspen regen. Retention should include large diameter, forked crown aspen. Favor bigtooth aspen in retention. Leave cedar, hemlock, and pine.

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

Acceptable Regen: aspen

Other Comment: Recommend dry or frozen conditions for harvest.

Site Condition

Proposed Start Date: 10/1 /2021

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
36	32086036-Cut	13.1	4140 - Other Upland Deciduous	Sawtimber Well	87	81-110	Harvest	Seed Tree with Retention	414 - Other Upland Deciduous	Even-Aged	No

Prescription Specs: Harvest to a 2" spec to promote paper birch stump sprouts. Leave approximately one paper birch per acre for seed and future wildlife snags. Leave cedar and favor yellow birch if present within treatment area.

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

Acceptable Regen: birch, red maple, spruce/fir

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
37	32086037-Cut	7.2	6122 - Black Spruce	Poletimber Well	95	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No

Prescription Specs: Harvest to a 2" spec to promote lowland conifer regeneration. Retention will be around southwest to southeast edges where stand becomes less productive. Retention should include some larger tamarack. Leave cedar and pine.

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

Acceptable Regen: lowland conifers

Other Comment: Actual treatment size should only be around 5 acres after excluding unproductive edges. Approximate treatment line has been adjusted. Harvest during dry or frozen conditions.

Site Condition

Proposed Start Date: 10/1 /2021

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
48	32086048-Cut	21.6	6121 - Tamarack	Poletimber Medium	89	81-110	Harvest	Clearcut with Retention	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No

Prescription Specs: Harvest to a 2" spec to promote lowland conifer regeneration. Exclude edges that are dense with cedar or open alder areas. Retention should include dense cedar and larger diameter black spruce and tamarack. Leave cedar, hemlock, and pine.

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

Acceptable Regen: tamarack, black spruce, cedar, white pine

Other Comment: Recommend harvest during dry or frozen conditions. See reference layer for approximate edge exclusion. Approximate treatment line has been adjusted.

Site Condition

Proposed Start Date: 10/1 /2021

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
67	32086067-Cut	51.4	4130 - Aspen	Sawtimber Well	46	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No

Prescription Specs: Harvest to a 2" spec to promote aspen regeneration. Retention should include large diameter, forked crown aspen. Favor bigtooth aspen in retention. Leave cedar, hemlock, and pine.

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

Acceptable Regen: aspen

Other Comment: See reference layer for approximate wet exclusions in center of stand.

Site Condition

Proposed Start Date: 10/1 /2021

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
83	32086083-Cut	59.1	4134 - Aspen, Spruce/Fir	Sawtimber Well	71	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No

Prescription Specs: Harvest to a 2" spec to promote aspen regeneration. Retention should included large diameter, forked crown aspen, dense cedar patches, or areas of slope that may be too steep to operate on. Favor bigtooth aspen in retention. Leave cedar, hemlock, and pine.

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

Acceptable Regen: aspen, maple, spruce/fir

Other Comment: Access from west would require crossing multiple narrow lowland drainages which might be possible during dry summer conditions with timber mats. Access from the south would most likely require freezing a road across a wide lowland stand (minimum of 250 yards). Either access will require new road construction. See reference layer for approximate planned routes.

Site Condition

Proposed Start Date: 10/1 /2021

Total Treatment Acreage Proposed: 217.2

Report 4 – Site Conditions

Gwinn Mgt. Unit

Eric Brolin : Examiner

Compartment: 86

Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available		Dominant Site Conditions *5C*	2G	5E
631	630	***0***	0	**Aspen**		0	
919	919	***0***	0	**Cedar**			
7	7	***0***	0	**Herbaceous Openland**			
26	26	***0***	0	**Lowland Conifers**			
134	134	***0***	0	**Lowland Shrub**			
36	10	***26***	0	**Lowland Spruce/Fir**	***26***		
95	95	***0***	0	**Northern Hardwood**			
13	13	***0***	0	**Paper Birch**			
26	22	***0***	5	**Tamarack**			5
29	29	***0***	0	**Water**			
1,917	1,886	***26***	5	Total Forested Acres	***26***	0	5
	98%	***1%***	0%	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**	26	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Stand will be evaluated during prep of the stand to the south for possible adding a treatment for harvest.						
2	**Unavailable**	**5E: Long-Term Retention**	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Long-term retention for stand 48.						

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
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.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	7.5	87	81-110	N/A	Moderate quality sugar maple stand. Patchy canopy with maple saplings growing in any openings. 80 100 Average of 90 BA.OPIC - FMD: M5M7, now, cut permt. # 21-02-01, ASP CUT OUT IN 1978, 2011- Stand harvested by LaFleur under contract # 021-02-01.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	29	Log/Pole	12	
Sugar Maple	70	Log/Pole	12	87

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	Sapling
Sugar Maple	High	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
2	6120 - Lowland Cedar	Poletimber Medium	619.6	116	51-80	N/A	Large lowland web spanning across entire compartment. Flooded across many areas from beaver activity. Ranges from dense cedar patches to black ash sapling swales to open alder drainages to flooded mixed lowland conifer patches. Any possible possible operable or harvestable areas were broken out into separate stands from this one. This stand is either too wet with flooding or too dense to cedar to be managed. OPIC - FMD: Q5Q1L MIGHT BE MERCH IN 50 YEARS

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	55	Pole/Log	9	116
Black Ash	20	Pole/Sapling	6	
Balsam Fir	5	Pole/Sapling	5	
Black Spruce	20	Pole/Sapling	7	116

Sub-Canopy Species	Density	Avg. Height	Size
Alder	High	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
5	6120 - Lowland Cedar	Poletimber Medium	239.2	116	51-80	N/A	Large lowland web. Flooded in across many areas from beaver activity. Ranges from dense cedar patches to black ash sapling swales to open alder drainages to flooded mixed lowland conifer patches. Any possible harvestable areas were broken out into separate stands from this one. This stand is either too wet with flooding or too dense to cedar to be harvested.OPIC - FMD: Q5Q1L MIGHT BE MERCH IN 50 YEARS

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	65	Pole/Log	9	116
Black Ash	15	Pole/Sapling	6	
Balsam Fir	5	Pole/Sapling	5	
Black Spruce	15	Pole/Sapling	6	116

Sub-Canopy Species	Density	Avg. Height	Size
Alder	High	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
6	6120 - Lowland Cedar	Poletimber Medium	60.6	116	51-80	N/A	Large lowland web. Flooded in across many areas from beaver activity. Ranges from dense cedar patches to black ash sapling swales to open alder drainages to flooded mixed lowland conifer patches. Any possible harvestable areas were broken out into separate stands from this one. This stand is either too wet with flooding or too dense to cedar to be harvested. OPIC - FMD: Q5Q1L MIGHT BE MERCH IN 50 YEARS

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	55	Pole/Log	9	116
Black Ash	20	Pole/Sapling	6	
Balsam Fir	5	Pole/Sapling	5	
Black Spruce	20	Pole/Sapling	7	116

Sub-Canopy Species	Density	Avg. Height	Size
Alder	High	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
7	622 - Lowland Shrub	Nonstocked	44.7	0		No	Flooded alder with some standing dead and scattered conifer.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	4130 - Aspen	Sapling Well	13.1	26	Immature	N/A	Dense aspen large sapling to small pole sized trees. Dense understory of saplings. Openings growing in with aspen and black spruce/fir saplings. A small younger patch cut in 94' is found in the north tip along the G0. OPIC - FMD: CUT PRMT.# 27-92-01, A3 IS NOW 2-4" DBH, 20-30 FT TALL

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Pole/Sapling	5	
Quaking Aspen	93	Sapling/Pole	4	26
Black Spruce	2	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Quaking Aspen	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
9	4130 - Aspen	Sapling Well	15.4	26	Immature	N/A	Dense aspen large sapling to small pole sized trees. Dense understory of saplings. Openings growing in with aspen and black spruce/fir saplings. Best access would be from the NE from stand 55. OPIC - FMD: CUT PRMT.# 27-92-01, A3 IS NOW 2-4" DBH, 20-30 FT TALL

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Pole/Sapling	5	
Quaking Aspen	93	Sapling/Pole	4	26
Black Spruce	2	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Quaking Aspen	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
10	4130 - Aspen	Poletimber Well	23.4	32	51-80	N/A	Aspen pole stand. Access would be best from the north. Manage with compartment 28. OPIC - FMD: A3, 2-5 IN. DBH, 20-30 FT TALL, a few pole sized trees in stand. CUT 1989 # 11-87-1

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	3	Pole	5	
Red Maple	2	Pole	5	
Quaking Aspen	83	Pole/Sapling	6	32
Northern White Cedar	4	Pole/Log	9	
Balsam Fir	8	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	>20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	4139 - Aspen, Mixed Deciduous	Sapling Medium	37.5	6	Immature	N/A	Dense aspen and red maple sapling mix. Low areas with cedar poles and cattails have less dense regen. Overall canopy cover near 75% range. Small patch of poor quality red maple logs in the center has dense maple and aspen saplings in the understory. Cut by St John FP in winter of 2014-2015 under late summer sale 32-017-12-01.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	8	Pole	6	
Red Maple	39	Sapling	1	6
Quaking Aspen	51	Sapling	1	6
Black Ash	2	Pole	6	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
12	6122 - Black Spruce	Poletimber Well	25.5	101	81-110	N/A	Viewed this stand from ridgetop in stand 83 to the south in spring of 2019, did not enter stand. Weather conditions prevented access this inventory cycle for 2022 YOE. When in south stand for prep investigate this stand for possibly adding a treatment to harvest.OPIC - FMD: A6F4M4, access to stand is almost impossible, it is a winter job, with a long snow plow on poor dirt roads to get to the compartment, then more plowing to get across the compartment on two track skid trails, then new roads to build, culverts to install across wet swampy stands that the beaver have flooded. Plus the terrain in the stand is hilly, with wet areas scattered about in the stand, that would be left for retention. Over all it would not be economically feasible to cut this stand.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	15	Log/Pole	12	
Balsam Fir	10	Pole	7	
Red Maple	5	Log/Pole	12	
Black Spruce	70	Pole	8	101

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.8	87	111-140	N/A	Maple stand with moderate quality logs. Broken from connected larger stand on north side of the road as the BA averaged much higher and should be managed this cycle, probably from different markers working together. 130 140 90 Average of 120 BA.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	2	Pole	8	
Red Maple	63	Log/Pole	12	87
Yellow Birch	3	Log	12	
Paper Birch	2	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	10 - 20 feet	Sapling
Balsam Fir	Medium	Variable	Sapling
Red Maple	Medium	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
14	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	13.2	87	51-80	N/A	Poor to moderate quality flat of red maple with aspen and some maple saplings. Open canopy with some softer ground.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	91	Log/Pole	12	87
Quaking Aspen	5	Pole	8	
Northern White Cedar	2	Pole/Log	9	
Yellow Birch	2	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	Sapling
Quaking Aspen	High	10 - 20 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
15	310 - Herbaceous Openland	Nonstocked	3.9			No	Opening with aspen saplings along edges and conifer saplings within. OPIC - FMD: DISCED SEEDED 1986, Filling in with A,F,S,T.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	6220 - Alder/willow	Nonstocked	32.8		Immature	No	Alder drainage with scattered black ash and conifer.

17 — 4130 - Aspen — Poletimber Well — 18.9 — 36 — 51-80 — N/A

Aspen pole stand with a lower area in the south finger with cedar speckled in. Best access would be from the SW through stand 55.

OPIC - FMD: A3, 2-5 IN DBH, 20-30 FT TALL, some blackcherry and fir in the std., Cut prmt# 22-82-01

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	3	Pole	5	
Red Maple	2	Pole	5	
Quaking Aspen	91	Pole/Sapling	6	36
Northern White Cedar	4	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	>20 feet	Sapling

18 — 4130 - Aspen — Sapling Well — 30.1 — 17 — Immature — N/A

Dense aspen sapling stand. Stand is cut off on south end by a low alder drainage.

OPIC - FMD: Cut prmt. #20-02-01, A3 is 1/2- 2 inches dbh, 5-15 feet tall,

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	20	Sapling/Pole	3	17
Quaking Aspen	80	Sapling	3	17

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling

19 — 4112 - Maple, Beech, Cherry Association — Sawtimber Medium — 5.4 — 87 — 51-80 — N/A

Poor to moderate quality flat of red maple with aspen and some maple saplings.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	91	Log/Pole	12	87
Quaking Aspen	5	Pole	8	
Northern White Cedar	2	Pole/Log	9	
Yellow Birch	2	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	Sapling
Quaking Aspen	Medium	10 - 20 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling

20	6220 - Alder/willow	Nonstocked	48.0		Immature	No	Flooded alder drainage with scattered conifer saplings.

21 — 4130 - Aspen — Poletimber Well — 5.6 — 36 — 51-80 — N/A

Aspen pole stand. Originally connected to stand 10 in the west but was broken off by beaver flooding. Best access would be from stand 18 to the west across lowland ground.

OPIC - FMD: A3, 2-5 IN DBH, 20-30 FT TALL, some blackcherry and fir in the std., Cut prmt# 22-82-01

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	3	Pole	5	
Red Maple	2	Pole	5	
Quaking Aspen	91	Pole/Sapling	6	36
Northern White Cedar	4	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	>20 feet	Sapling

22 — 4130 - Aspen — Poletimber Well — 20.5 — 36 — 51-80 — N/A

Aspen pole stand. Access would be best from the north.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	3	Pole	5	
Red Maple	2	Pole	5	
Quaking Aspen	91	Pole/Sapling	6	36
Northern White Cedar	4	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	>20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
23	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.2	87	111-140	N/A	Narrow ridge of maple logs transitioning to a lower flat of poorer quality red maple in the east 1/3 of stand. Any live paper birch left in stand is declining. Some old canopy gaps have dense sugar maple saplings in them. 140 130 140 80 Average of 120 BA.OPIC - FMD: Cut prmt# 21-02-01, M6M7 now, ASP CUT IN 1961, SMALL PART OF STD IN NW THINNED, # 2-83-1, UNDER PLANT HEMLOCK AFTER SALE IS COMPLETE.
24	4130 - Aspen	Poletimber Well	44.5	35	Immature	N/A	Very dense great quality mixed aspen transitioning into a pole sized stand. Dense fir around edges. OPIC - FMD: CUT 1986 # 22-82-1, A5 now with a few black cherry, maple, and fir mixed in.
25	4130 - Aspen	Sapling Well	34.0	26	Immature	N/A	Dense aspen large sapling to small pole sized trees. Dense understory of saplings. Wet area in center. OPIC - FMD: CUT PRMT.# 27-92-01, A3 IS NOW 2-4" DBH, 20-30 FT TALL
26	4110 - Sugar Maple Association	Sawtimber Well	3.6	87	111-140	N/A	Small sugar maple log strip that was not included with sale to the south. Large sized sugar maple with scattered poles and saplings in the understory. Merge with stand 18 in the compartment to the south after harvest for future management. 120 140 120 Average of 125 BA.
27	4130 - Aspen	Sawtimber Well	43.2	50	111-140	N/A	A winding web of aspen wrapping around numerous lowland swales. Aspen ranging from good diameter poles to larger log sized diameter trees, 12"-14", in areas and along edges. Some softer, poorly drained flat ground in center. Some scattered maple mixed in areas. Original stand age was set at 45 years old. Cutting records and core indicate stand was cut between 1970 - 1972 putting it at 49 years old. Small patch of black spruce in the NE should be included in future harvest.

Stand 23

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	23	Log/Pole	12	
Northern White Cedar	1	Log/Pole	10	
Yellow Birch	6	Log	14	
Paper Birch	5	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	10 - 20 feet	Sapling
Balsam Fir	Low	Variable	Sapling

Stand 24

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	40	Pole/Sapling	6	35
Quaking Aspen	60	Pole/Sapling	5	35

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	>20 feet	Sapling
Sugar Maple	Medium	>20 feet	Sapling

Stand 25

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	6	
Balsam Fir	8	Pole/Sapling	5	
Quaking Aspen	87	Sapling/Pole	4	26

Stand 26

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	93	Log/Pole	12	87
Hemlock	1	Log	16	
Yellow Birch	1	Pole	8	
Red Maple	3	Log/Pole	11	
Balsam Fir	2	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	>20 feet	Sapling

Stand 27

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	12	Pole/Log	9	
Paper Birch	5	Pole	9	
Quaking Aspen	63	Log/Pole	12	50
Balsam Fir	5	Pole	7	
White Spruce	1	Pole/Log	9	
Northern White Cedar	2	Pole/Sapling	7	
Black Spruce	4	Pole	7	
Bigtooth Aspen	8	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	10 - 20 feet	Sapling
Balsam Fir	High	Variable	Sapling
Red Maple	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
29	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.7	87	51-80	N/A	Maple stand with a more open canopy in most areas. Scattered older aspen. Dense understory of maple saplings with some scattered aspen and fir saplings. Dense aspen saplings encroaching along the south edge and roadways. 100 110 Average of 105 BA.OPIC - FMD: Cut prmt# 21-02-01, M5B4 now, was cut in 1983-84, # 2-83-1.Aspen was cut in 1971.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	72	Log	11	87
Paper Birch	3	Pole/Log	8	
Quaking Aspen	5	Log	12	50

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	10 - 20 feet	Sapling
Quaking Aspen	Low	10 - 20 feet	Sapling
Balsam Fir	Medium	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
32	4130 - Aspen	Sapling Well	9.3	13	Immature	N/A	Aspen sapling stand with scattered fir. Lower ground in the south half with scattered cedar and small black ash patches. Alder scattered across much of south half. Retention was left in the south tip.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	4	Pole	7	
Black Ash	6	Pole	7	
Balsam Fir	10	Sapling	3	
Red Maple	10	Sapling	1	
Quaking Aspen	70	Sapling	2	13

Sub-Canopy Species	Density	Avg. Height	Size
Alder	Medium	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
33	4139 - Aspen, Mixed Deciduous	Sapling Well	15.2	11	Immature	N/A	Solid mix of aspen and red maple stump sprout saplings. Scattered pole sized spruce and cedar were left from past harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Sapling	2	11
White Spruce	2	Pole/Log	9	
Northern White Cedar	1	Pole	8	
Red Maple	42	Sapling	1	11
Balsam Fir	5	Sapling	2	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
36	4140 - Other Upland Deciduous	Sawtimber Well	13.1	87	81-110	N/A	Almost solid paper birch stand. Birch is starting to decline and should be harvested ASAP. A few scattered understory fir. Average around 90 BA.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Log/Pole	10	
Paper Birch	85	Log/Pole	10	87

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	10 - 20 feet	Sapling
Sugar Maple	Medium	10 - 20 feet	Sapling
Balsam Fir	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
37	6122 - Black Spruce	Poletimber Well	10.2	95	81-110	N/A	Black spruce ranges from dense patches to smaller open pockets. Decreased diameter around the edges with some own alder areas. Good average diameter sized trees. OPIC - FMD: Poor site

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	82	Pole	8	95
Northern White Cedar	8	Pole	7	
Tamarack	10	Pole	9	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
43	4134 - Aspen, Spruce/Fir	Poletimber Well	16.8	32	51-80	N/A	Past inspection notes and imagery indicate a patchy cut not completed across stand. Lowland patch in center with cedar and black spruce. Manage with compartment 28. OPIC - FMD: Std, was cut prmt# 11-87-1, F2 F4,M2,A1,L, now with a few pole sized trees in stand.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	15	Pole/Log	9	95
Black Spruce	10	Pole	8	95
Quaking Aspen	50	Pole/Sapling	5	32
Balsam Fir	10	Pole/Sapling	6	
Red Maple	15	Pole/Log	8	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
47	4130 - Aspen	Sapling Well	54.1	26	Immature	N/A	Dense aspen large sapling to small pole sized trees. Dense understory of saplings. Wet areas within. OPIC - FMD: CUT PRMT.# 27-92-01, A3 IS NOW 2-4" DBH, 20-30 FT TALL

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	6	
Balsam Fir	8	Pole/Sapling	5	
Quaking Aspen	87	Sapling/Pole	4	26

48	6121 - Tamarack	Poletimber Medium	26.5	89	81-110	N/A	Somewhat of a sparser canopy tamarack stand with patches of black spruce and veins of cedar along some edges. Canopy cover is near 75%. Alder open areas along the W/S/E edges. OPIC - FMD: POOR STD, NO NEEDS FOR A LONG TIME.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	22	Pole	8	89
White Pine	2	Log	12	
Paper Birch	3	Pole	7	
Tamarack	66	Pole	9	89
Northern White Cedar	7	Log/Pole	10	

55	4130 - Aspen	Poletimber Well	24.2	36	51-80	N/A	Aspen pole stand with a lower area in the south finger with cedar speckled in. Access crosses lowland conifer from the east. OPIC - FMD: A3, 2-5 IN DBH, 20-30 FT TALL, some blackcherry and fir in the std., Cut prmt# 22-82-01

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	3	Pole	5	
Red Maple	2	Pole	5	
Quaking Aspen	91	Pole/Sapling	6	36
Northern White Cedar	4	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	>20 feet	Sapling

60	500 - Water	Nonstocked	29.3	0		No	Beaver pond flooded and backing up into lowland conifer stands.

62	4119 - Mixed Northern Hardwoods	Poletimber Medium	26.1	81	51-80	N/A	Lighter BA of red maple poles, almost a shelterwood environment, with aspen saplings growing in any canopy openings. Dense patches of barely merchantable fir. Aspen is more dense in the north half and very dense along the G0 that they encroached into. Cut in 2005, appears that all aspen was cut out creating a patchy younger age class. Red maple canopy is light enough to where it will never have to be thinned, aspen saplings are too dense to harvest right now without significant damage to second age class. Recommend letting aspen mature in this stand and possible future even-aged management for aspen. OPIC - FMD: M6B4F4 now, cut prmt#19-02-01 , Some aspen cut out in 1969.

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	5	Log/Pole	10	
Paper Birch	5	Pole	8	
Northern White Cedar	4	Log/Pole	10	
Red Maple	76	Pole/Log	9	81
Balsam Fir	10	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	High	10 - 20 feet	Sapling
Balsam Fir	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
65	4130 - Aspen	Poletimber Well	17.3	43	81-110	N/A	Aspen pole stand with larger sapling maple understory. Some softer patches of lowland areas scattered inside. OPIC - FMD: A5M4, CUT 1978, RESID CUT 1980,

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	4	Pole/Sapling	5	
Quaking Aspen	82	Pole	7	43
Black Cherry	1	Pole	7	
Paper Birch	2	Pole	6	
Sugar Maple	5	Pole/Sapling	5	
Red Maple	2	Pole	7	
Northern White Cedar	4	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	>20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
67	4130 - Aspen	Sawtimber Well	51.4	46	111-140	N/A	Very good quality aspen for younger age with mostly log sized trees. Stand is heavy to bigtooth with quaking more dominant in the north fingers. Areas have dense sapling understory. Log sized white spruce and some large diameter fir are scattered evenly across the stand. Low pockets in center/north may have to be excluded (see reference lines). Slightly smaller average diameter in north fingers. OPIC - FMD: A6M4F4, CUT 1975, STATE HAS UNDIVIDED THREE QUARTER INTEREST, IN 30 ACRES OF SWSW, OF SEC 2

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	4	Pole	8	
Quaking Aspen	25	Pole/Log	9	46
Red Maple	3	Log/Pole	11	
Sugar Maple	3	Log/Pole	11	
Bigtooth Aspen	55	Log/Pole	12	46
White Spruce	7	Log	12	
Paper Birch	3	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
83	4134 - Aspen, Spruce/Fir	Sawtimber Well	59.1	71	111-140	N/A	Accessed stand early spring 2019 from snowmobile across the marsh area. Could not make it back 2020 to get accurate age and exact species percentages. Long rolling ridge runs north/south across center. Large diameter mixed aspen with log sized maple mixed in. A couple of low pockets have black spruce. Access would be from the west compartment across multiple narrow lowland drainages. Access from the south has been eliminated due to beaver flooding. OPIC - FMD: A6F4M4, access to stand is almost impossible, it is a winter job, with a long snow plow on poor dirt roads to get to the compartment, then more plowing to get across the compartment on two track skid trails, then new roads to build, culverts to install across wet swampy stands that the beaver have flooded. Plus the terrain in the stand is hilly, with wet areas scattered about in the stand, that would be left for retention. Over all it would not be economically feasible to cut this stand.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	30	Log	12	71
Red Maple	15	Log/Pole	12	
Quaking Aspen	35	Log/Pole	12	71
Balsam Fir	10	Pole/Sapling	7	
Black Spruce	10	Pole	8	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
85	4130 - Aspen	Sapling Well	69.6	17	Immature	N/A	Dense aspen sapling stand with very little diversity. Dense understory of saplings. OPIC - FMD: Cut prmt. #18-02-01, A3 is 1-2 inches dbh, 5-15 ft. tall, When stand 85 was cut the sale boundry extended south into stand 40 of compartment 85 for a few acres.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	2	Sapling/Pole	4	
Paper Birch	1	Sapling/Pole	4	
Quaking Aspen	82	Sapling/Pole	3	17
Bigtooth Aspen	15	Sapling/Pole	4	17

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Quaking Aspen	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
86	6123 - Lowland Fir	Sapling Poor	26.2	21	1-50	N/A	Low area with scattered poles. dense with fir saplings and alder.OPIC - FMD: TOO WET, LOW VOLUME

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	15	Log	12	
Balsam Fir	50	Sapling/Pole	3	21
Northern White Cedar	10	Pole	6	108
Balsam Poplar	15	Pole	8	
Black Ash	10	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Alder	High	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
89	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.5	87	51-80	N/A	Red maple with patchy canopy in most areas. Borderline average log sized trees. OPIC - FMD: Cut prmt# 21-02-01, Now M6M7, ASP CUT IN 1961 SMALL PART OF STD IN NW THINNED #2-83-1.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	2	Pole	8	
Red Maple	84	Pole	9	87
Yellow Birch	2	Pole	8	
Paper Birch	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	Sapling
Balsam Fir	Medium	>20 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
96	622 - Lowland Shrub	Nonstocked	8.4			No	Lowland alder with scattered conifer. OPIC - FMD: LOWLAND BRUSH
112	4130 - Aspen	Sapling Well	27.3	26	Immature	N/A	Dense aspen large sapling to small pole sized trees. OPIC - FMD: Cut prmt# 27-92-01, A3 is now 2 to 5 inches dbh. 20-30 ft tall.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Pole/Sapling	5	
Quaking Aspen	95	Sapling/Pole	4	26

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
401	310 - Herbaceous Openland	Nonstocked	1.4			No	Opening with saplings encroaching. OPIC - FMD: Filling in with A,F,S,T.
402	310 - Herbaceous Openland	Nonstocked	2.1			No	Grass opening with scatted saplings.OPIC - FMD: Filling in with A,F,S,T