



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32062

Entry Year 2025

Acreage: 1,803

County Marquette

Management Area: Ralph Moraine

Stand Examiner: Eric Brolin

Legal Description:

T43N R26W, Sections 7, 8, 9, 16,17,18, 19 and T43N R27W, Section 24

Identified Planning Goals:

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

Soil and topography:

Terrain ranges from level swamps and wetland drainages to rolling and slightly hilly uplands. Major soil types are Onaway fine sandy loam, Carbondale and Tawas soils, Emmet-Escanaba Complex, Onaway-Nadeau fine sandy loam.

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

This compartment contains private ownership in larger blocks with a fair amount of state land blocked by gated private access.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Large deer wintering complex.

Watershed and Fisheries Considerations:

NLMMU – John Bauman: This compartment contains tributaries to Gleason Creek, Chynes Creek and the Little West Branch Escanaba River. Tributaries to Gleason Creek, Chynes Creek and the Little West Branch Escanaba River are designated Type 1 trout streams less than 50 foot wide and have predicted mean July temperatures that range from 63.3 to 66.2 (cold and cool streams). 300-foot buffers are recommended for tributaries to Gleason Creek, Chynes Creek and the Little West Branch Escanaba River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is found within the Ralph 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 Moraine Management Area: American Woodcock, Blackburnian Warbler, Golden-winged Warbler, Wood Thrush, Black-backed Woodpecker, Ruffed Grouse, Turkey, American Marten, Snowshoe Hare, White-tailed Deer, Black Bear.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured till (drumlin area). There is insufficient data to determine the glacial drift thickness. The Cambrian Trempealeau Formation subcrops below the glacial drift. The Trempealeau could be used for stone. Several gravel pits are located in this area and there is potential on the upland areas. Abandoned iron mines are located twelve miles to the northeast. Section 18 is leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Ross Grade is the primary road for access and is DNR maintained. Numerous 2-tracks are located in the compartment. Section 18 is accessed via Shultz Rd in Dickinson County.

Survey Needs:

Some survey needed across this Compartment for proposed timber sale treatments.

Recreational Facilities and Opportunities:

This is a good hunting area but the general public is not well liked by the local camp owners.

Fire Protection:

This compartment has a low risk for fire, and access is good.

Additional Compartment Information:**The following reports from the Inventory are attached:**

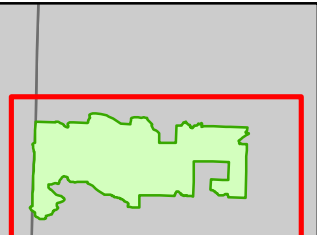
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

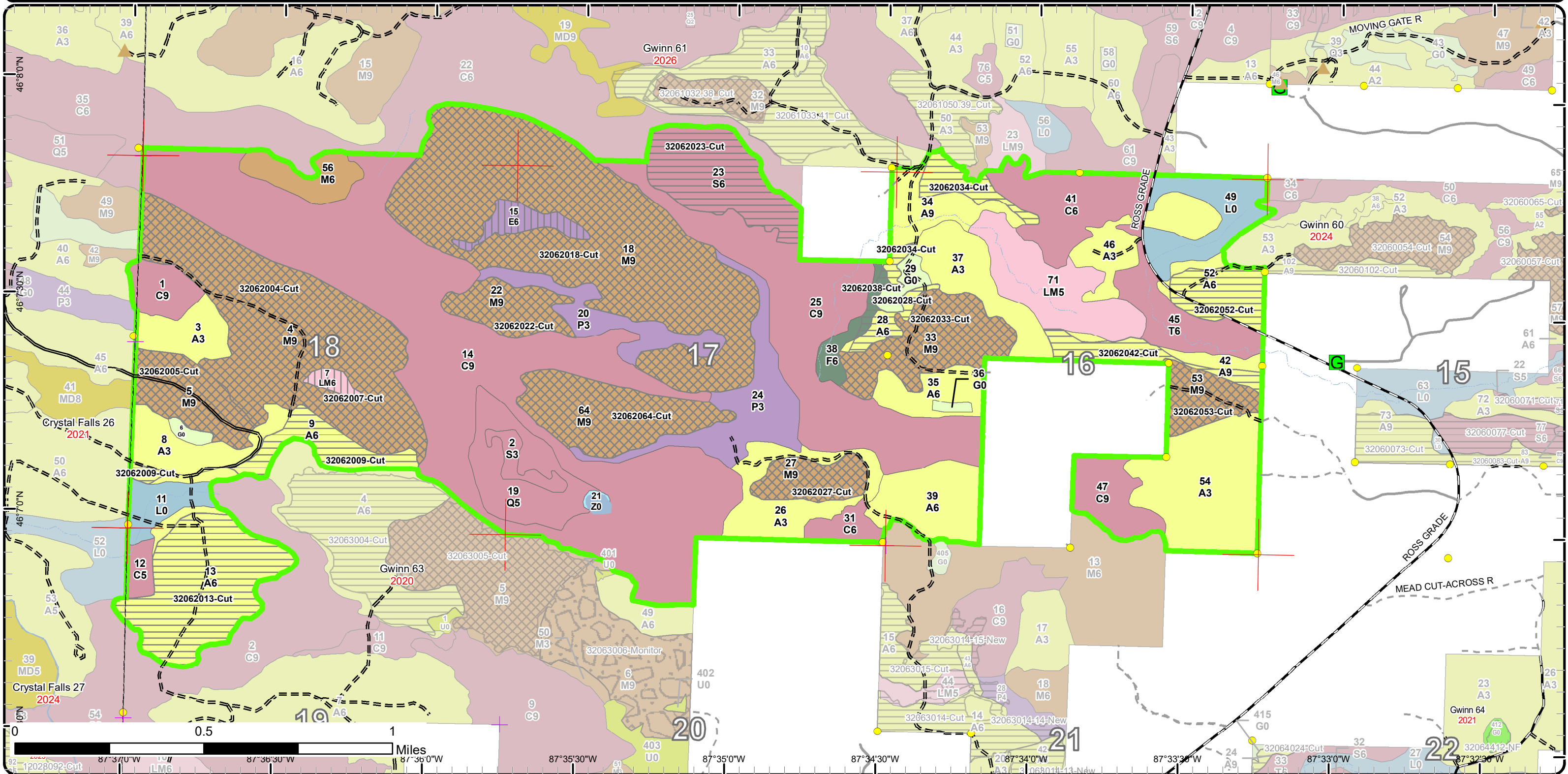
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 62
 T44N, R26W, Sec: 16, 17, 18
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Moraine
 YOE: 2025
 Acres: 1802.7 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 8/18/2023
 Map Phase: Pre-Review

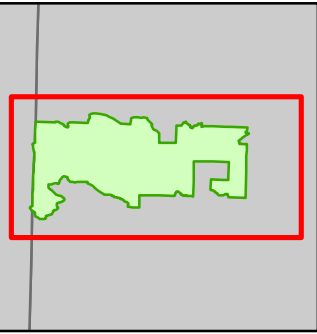
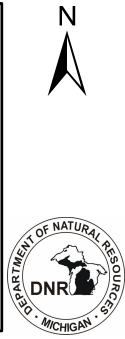


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Private - Paved Road
- Private - Dirt / Gravel Road
- ▲ Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub

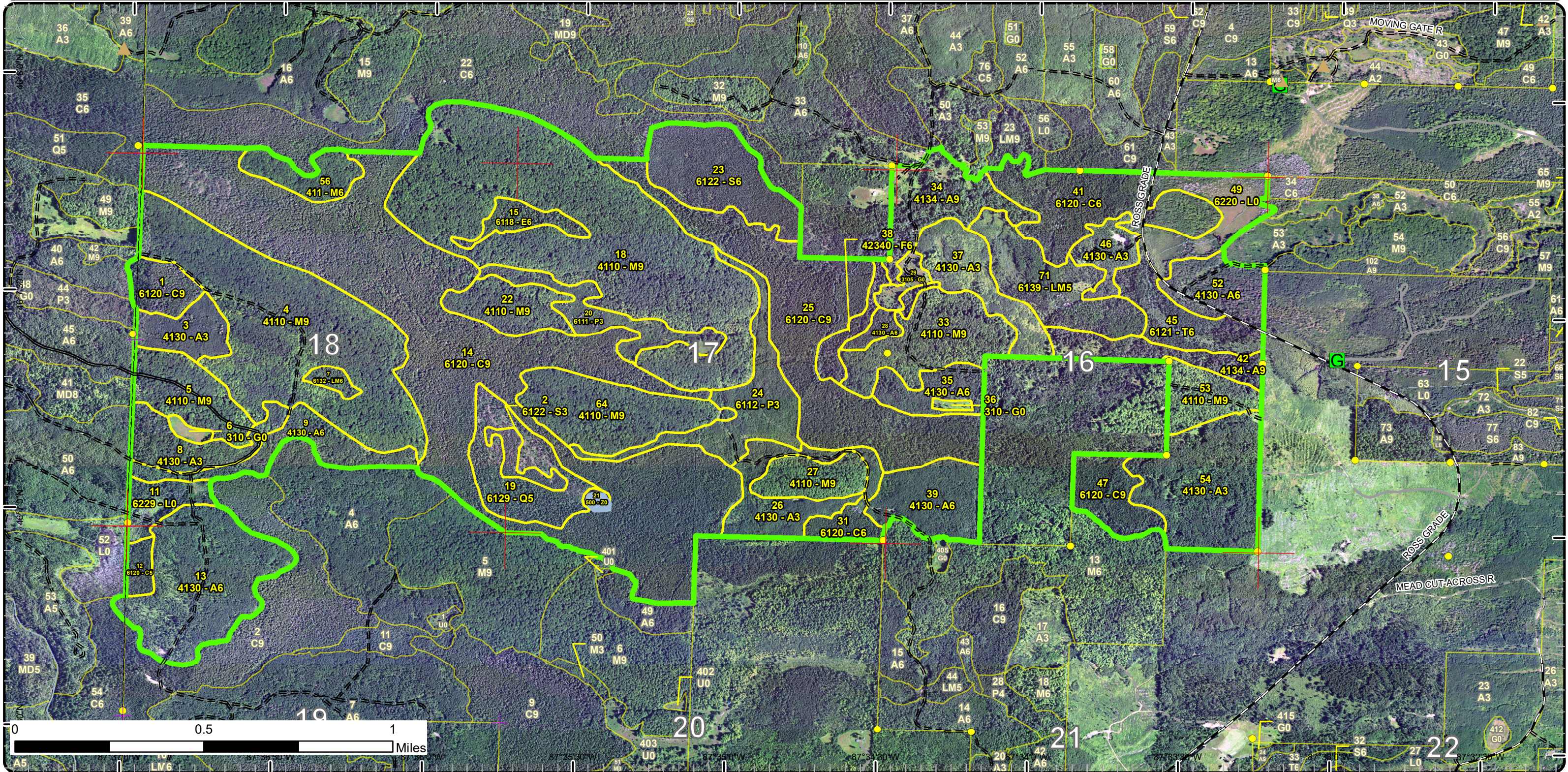


Stand Boundary Map

Compartment: 62
 T44N, R26W, Sec: 16, 17, 18
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Moraine
 YOE: 2025
 Acres: 1802.7 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 8/18/2023
 Map Phase: Pre-Review

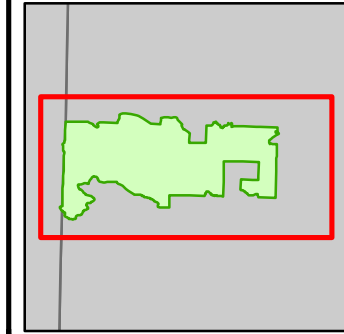


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- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
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- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub

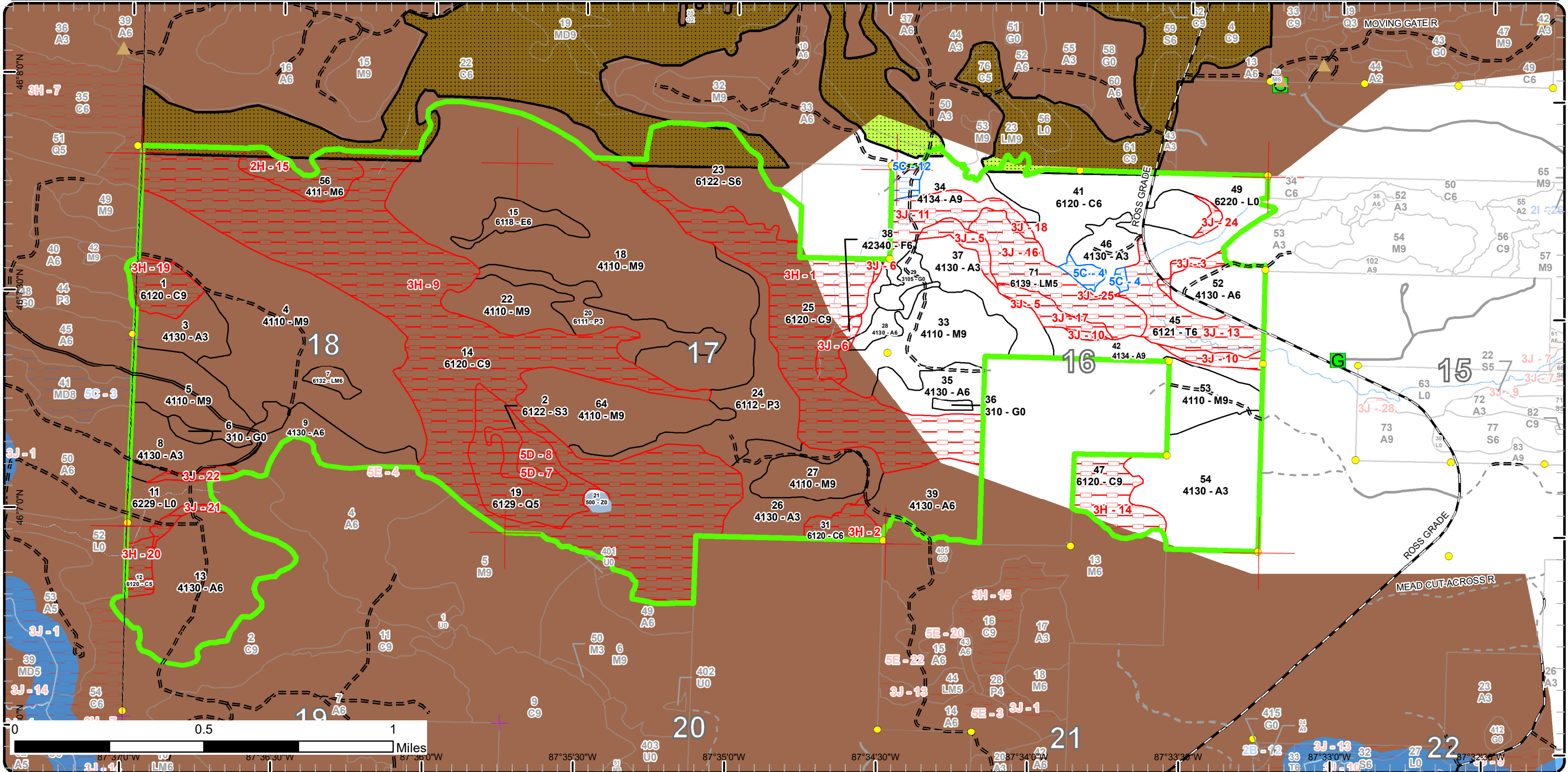


Special Conservation Areas

Compartment: 62
T44N, R26W, Sec: 16, 17, 18
County: Marquette
Unit: Gwinn
Mgmt Area: Ralph Moraine
YOE: 2025
Acres: 1802.7 GIS Calculated
Examiner: Eric Brodin
Map Revised: 8/18/2023
Map Phase: Pre-Review



- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Private - Paved Road
- Private - Dirt / Gravel Road
- Berms
- Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range
- Possible Type 2 Old Growth



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	112	30	49	51	80	51	35	22	0	0	0	0	0	0	0	0	0	430
Cedar	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	14	445	0	507
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Aspen/Balsam Poplar	0	0	0	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Lowland Conifers	0	0	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	37
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	43	4	0	0	0	0	0	0	47
Lowland Shrub	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	7	47	0	0	0	0	0	0	0	54
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	555	0	0	0	0	0	0	555
Tamarack	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	28
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	10
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	57	112	30	115	51	80	51	35	22	44	118	630	0	0	0	14	445	0	1802



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 62
Total Compartment Acres: 1,803

Commercial Harvest - 752
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	150	0	0	0	0	0	0	0	0	150
Lowland Deciduous	0	0	0	0	11	0	0	0	0	11
Lowland Mixed Forest	0	0	0	0	4	0	0	0	0	4
Lowland Spruce/Fir	47	0	0	0	0	0	0	0	0	47
Northern Hardwood	0	537	0	0	0	0	0	0	0	537
Upland Spruce/Fir	3	0	0	0	0	0	0	0	0	3
Total	200	537	0	0	15	0	0	0	0	752

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	752	0	0	0	0	0	0	0	0	752
Next Step	0	47	0	0	0	0	752	0	0	799
Total	752	47	0	0	0	0	752	0	0	1551



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

Proposed Treatments:

4	32062004-Cut	142.8	4110 - Sugar Maple Association	Sawtimber Well	108	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 80 - 100 BA. Focus on improving quality, and creating/maintaining canopy gaps for regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter harvest for winter deer range. Thin aspen in SW area as you would hardwood, to discourage aspen regen, while maintaining 80 - 100 BA residual.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
5	32062005-Cut	30.2	4110 - Sugar Maple Association	Sawtimber Well	108	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 80 - 100 BA. Focus on improving quality, and creating/maintaining canopy gaps for regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter harvest for winter deer range.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
7	32062007-Cut	4.3	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	100	81-110	Harvest	Shelterwood with Retention	613 - Lowland Mixed Forest	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. Exclude dense cedar patch in the center. Leave cedar, hemlock, and pine. In addition, green tree one yellow birch per acre to leave.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> lowland mix</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter harvest for winter deer range. If black ash is dead, may terminate this treatment - have seen significant black ash mortality in this area the past couple of years.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
9	32062009-Cut	23.3	4130 - Aspen	Poletimber Well	50	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote aspen regeneration. Leave cedar, hemlock, and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter harvest for winter deer range. Treatment line is updated to include a 300' trout stream buffer. Do not push lines past treatment lines where site condition is present.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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13	32062013-Cut	69.5	4130 - Aspen	Poletimber Well	41	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest to a 2" spec to promote aspen regeneration. Leave cedar, hemlock, and pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, conifer

Regen:

Other Winter harvest for winter deer range. Treatment line is updated to include a 300' trout stream buffer. Do not push lines past treatment lines
Comment: where site condition is present. Push lines hard to lowland edges.

Site Condition

Proposed Start Date: 10/1 /2024

15	32062015-Cut	10.9	6118 - Lowland Deciduous with Cedar	Poletimber Well	103	81-110	Harvest	Shelterwood	611 - Lowland Deciduous Forest	Two-Aged	No
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Prescription Harvest to a 2" spec to promote regeneration. Green tree to leave approximately 1 yellow birch per acre. Leave cedar, hemlock, and pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable hardwood, aspen, conifer

Regen:

Other Winter harvest for winter deer range. If black ash is dead, may terminate this treatment - have seen significant black ash mortality in this area the past couple of years. No retention due to small size.

Site Condition

Proposed Start Date: 10/1 /2024

18	32062018-Cut	209.9	4110 - Sugar Maple Association	Sawtimber Well	107	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark stand to 70 - 90 BA. Focus on improving quality, and creating/maintaining canopy gaps for regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, pine, white ash, and yellow birch. Favor species diversity while marking.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable northern hardwood

Regen:

Other Winter harvest for deer winter range.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

22	32062022-Cut	22.7	4110 - Sugar Maple Association	Sawtimber Well	107	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark stand to 70 - 90 BA. Focus on improving quality, and creating/maintaining canopy gaps for regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, pine, and yellow birch. Favor species diversity while marking.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable northern hardwood

Regen:

Other Winter harvest for deer winter range. Access from the north across a narrow strip of low ground may need timber mats or dry/frozen ground.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
23	32062023-Cut	46.6	6122 - Black Spruce	Poletimber Well	97	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote black spruce regeneration. Leave cedar, hemlock, and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> black spruce</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter harvest for winter deer range. Retention may be best in the west area where average diameter decreases. Evaluate during prep.</p> <p><u>Comment:</u> Access could be across wet ground from the north or the SW, depending on how new sales are managed, but would recommend access from the north for this stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
27	32062027-Cut	19.0	4110 - Sugar Maple Association	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality, and creating/maintaining canopy gaps for regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter harvest for deer winter range.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
28	32062028-Cut	7.0	4130 - Aspen	Poletimber Well	40	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote aspen regeneration. Retention will be in SW tip where a 300' trout stream buffer if present. Leave cedar, hemlock, and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Treatment line is updated to include a 300' trout stream buffer. Do not push lines past treatment lines where site condition is present.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
33	32062033-Cut	44.5	4110 - Sugar Maple Association	Sawtimber Well	107	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 80 - 100 BA. Focus on improving quality, and creating/maintaining canopy gaps for regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, pine, and white ash. Favor species diversity while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
34 32062034-Cut	14.2	4134 - Aspen, Spruce/Fir	Sawtimber Well	68	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. A 300' trout stream buffer excludes a large portion in the center of this stand. Leave cedar, hemlock, and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, conifer, hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Treatment line is updated to include a 300' trout stream buffer. Do not push lines past treatment lines where site condition is present.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
38 32062038-Cut	3.0	42340 - Upland Spruce/Fir	Poletimber Well	100	81-110	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. Leave cedar, hemlock, and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Treatment line is updated to include a 300' trout stream buffer. Do not push lines past treatment lines where site condition is present or into cedar stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
42 32062042-Cut	15.1	4134 - Aspen, Spruce/Fir	Sawtimber Well	75	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. Retention will be captured within the 300' trout stream buffer along the north edge. Leave cedar, hemlock, and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Treatment line is updated to include a 300' trout stream buffer. Do not push lines past treatment lines where site condition is present. Best access would be from the adjacent hardwood treatment in the SE, Stand 53/M9.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
52 32062052-Cut	21.1	4130 - Aspen	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote aspen regeneration. Leave cedar, hemlock, and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Treatment line is updated to include a 300' trout stream buffer. Do not push lines past treatment lines where site condition is present.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
53 32062053-Cut	20.0	4110 - Sugar Maple Association	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality, and creating/maintaining canopy gaps for regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity while marking.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> northern hardwood</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
64 32062064-Cut	48.1	4110 - Sugar Maple Association	Sawtimber Well	107	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality, and creating/maintaining canopy gaps for regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, pine, and white ash. Favor species diversity while marking.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> northern hardwood</p> <p><u>Other Comment:</u> Winter harvest for deer winter range.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Total Treatment Acreage Proposed: 752.2

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 62
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5C	2H	3H	3J	5D
430	382	4	43	Aspen	4			43	
509	42	0	467	Cedar			466	1	
11	11	0	0	Herbaceous Openland					
66	66	0	0	Lowland Aspen/Balsam Poplar					
37	0	0	37	Lowland Conifers					37
11	11	0	0	Lowland Deciduous					
47	4	3	40	Lowland Mixed Forest	3			40	
44	44	0	0	Lowland Shrub				0	
54	47	0	7	Lowland Spruce/Fir					7
555	537	0	18	Northern Hardwood		18			
28	0	1	26	Tamarack	1			26	
10	3	0	7	Upland Spruce/Fir				7	
2	2	0	0	Water					
1,803	1,149	9	645	Total Forested Acres	9	18	466	117	44
	64%	0%	36%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	113	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Large diameter dense cedar stand in deer wintering area.							
2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar within deer wintering area.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 62
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3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<p>Comments: 300' trout stream buffer and long term retention for stand 52.</p>							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: May be managed when adjacent stand is harvested for access.</p>							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<p>Comments: 300' trout stream buffer and long term retention for stand 37.</p>							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<p>Comments: 300' trout stream buffer for clear-cut stands and long term retention in stands 28, 34, and 38.</p>							
7	Unavailable	5D: Unproductive Forest Land	7	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Sparser black spruce that are stunted short and showing decline.</p>							
8	Unavailable	5D: Unproductive Forest Land	37	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Sparsely stocked lowland conifer with short, stunted trees showing decline.</p>							

Report 4 – Site Conditions

Gwinn Mgt. Unit
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Compartment: 62
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9	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	301	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Large diameter dense cedar stand in deer wintering area.</p>							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<p>Comments: 300' trout stream buffer and long term retention for stand 42.</p>							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<p>Comments: 300' trout stream buffer and long term retention for stand 34.</p>							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Patch of stand that has younger / non-merchantable aspen clones.</p>							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	27	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: 300' trout stream buffer.</p>							
14	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	22	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
<p>Comments: Dense cedar stand, partially in deer wintering area.</p>							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 62
Year of Entry: 2025

15	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Upland hump surrounded by dense lowland cedar.							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300' trout stream buffer.							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300' trout stream buffer.							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300' trout stream buffer.							
19	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar within deer wintering area.							
20	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 62
Year of Entry: 2025

21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: 300' trout stream buffer and long term retention for stand 13.							
22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: 300' trout stream buffer and long term retention for stand 9.							
24	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: 300' trout stream buffer and long term retention for stand 46.							
25	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: 300' trout stream buffer and long term retention for stand 46.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).
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	6120 - Lowland Cedar	Sawtimber Well	14.4	149	81-110	N/A	Dense cedar with narrow veins of birch and lowland conifer.																																									
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Black Ash	Low	10 - 20 feet	Sapling																																													
2	6122 - Black Spruce	Sapling Well	7.2	87	1-50	N/A	Sparser stunted black spruce stand. Trees may not become merchantable as decline is already showing.																																									
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3	4130 - Aspen	Sapling Well	18.4	22	Immature	N/A	Dense aspen saplings. A lot of low saturated ground within.																																									
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4	4110 - Sugar Maple Association	Sawtimber Well	142.8	108	141-170	N/A	Excellent quality maple log stand. Besides some ironwood and established maple saplings, fairly open understory across most areas. Old gaps show good maple saplings, some near pole size diameter. SE area decreases a bit in quality with more ironwood saplings. Far SW area contains some large aspen and more mixed birch speckled in. 150 170 190 150 150 120 140 Average of 150 BA.																																									
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5	4110 - Sugar Maple Association	Sawtimber Well	30.2	108	141-170	N/A	Maple stand with some poorer quality larger trees but better quality poles. 140 130 150 150 Average of 145 BA.																																									
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6	310 - Herbaceous Openland	Nonstocked	2.9		Unspecified	No	Small grassy opening on ridgetop.																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
7	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	4.3	100	81-110	N/A	Good size black ash abundant. Low, soft ground. Small dense cedar patch in the center.																																															
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8	4130 - Aspen	Sapling Well	23.6	4	Immature	N/A	Mainly a long, steep ridge of aspen saplings with some scattered residuals. (cut nov 19 10/28/20 EB) Smile and a Towel Aspen #32-036-16 clearcut leaving WP. 2015: Nice 4-5 stick aspen on fairly steep hillside. Mixed with bigtooth, white birch, and wp (primarily on west side).																																															
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9	4130 - Aspen	Poletimber Well	26.7	50	111-140	N/A	Aspen poles along lowland ground edge. Larger diameter along edges and in the west half. Some mixed conifer.																																															
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11	6229 - Mixed lowland shrub	Nonstocked	14.7		Unspecified	No	Flooded lowland.																																															
12	6120 - Lowland Cedar	Poletimber Medium	6.5	101	51-80	N/A																																																
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13	4130 - Aspen	Poletimber Well	73.0	41	111-140	N/A	Aspen pole to log size stand. A lot of areas have lower site quality aspen with shorter than average trees but all has good diameter with most areas near or above log sized trees. Fairly open understory except for some cherry saplings and mixed conifer areas.																																															
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14	6120 - Lowland Cedar	Sawtimber Well	301.2	169	111-140	N/A	Mainly dense cedar with some sparser areas that have lowland hardwood mixed in. Cedar is large pole to log size with some very large diameter trees abundant.																																																																											
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15	6118 - Lowland Deciduous with Cedar	Poletimber Well	10.9	103	81-110	N/A	Lowland hardwood stand with some small dense cedar patches interior. Diverse mix of species. Mature trees with some showing decline.																																																																											
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18	4110 - Sugar Maple Association	Sawtimber Well	209.9	107	111-140	N/A	Good quality maple log stand. Ranges from pole size to XL logs. Saplings are sparse, more abundant in old canopy gaps that have now grown in. Whole N/NE edge has long slope down to lowland ground. 150 170 90 140 130 140 Average of 140 BA. Unevenaged except missing saplings. High site quality. Pockets of good w. ash regen in moister locations. Last cut in 2000 by Marv Nelson # 27-99-01.																																																																											
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19	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	36.9	87	1-50	N/A	Sparse open bog areas across much of the stand. Stocked better in the south half with a heavier cedar mix. Short, stunted trees with tamarack saplings abundant and mature trees showing decline.																																																																											
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20	6111 - Lowland Balsam Poplar	Sapling Well	24.8	24	1-50	N/A	Low ground aspen. Denser to balsam poplar with an abundant mix of white birch. Some veins solid to quaking aspen along upland transitions.																																																
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21	500 - Water	Nonstocked	2.1		Unspecified	No	Small pond.																																																
22	4110 - Sugar Maple Association	Sawtimber Well	22.7	107	111-140	N/A	Good quality maple log stand. Ranges from pole size to XL logs. Saplings are sparse, more abundant in old canopy gaps that have now grown in. Average of 140 BA.																																																
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23	6122 - Black Spruce	Poletimber Well	46.6	97	81-110	N/A	Pure black spruce pole stand. Good sized poles except areas in the far west. It seems like maybe the far west 1/4 is a bit smaller diameter (barely merchantable) and a bit more sparse. Some spruce is showing some decline.																																																
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24	6112 - Lowland Aspen	Sapling Well	40.7	28	1-50	N/A	Lowland aspen/hardwood mix. Saturated ground across most areas of stand with numerous drainageways within.																																																
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25	6120 - Lowland Cedar	Sawtimber Well	112.5	169	111-140	N/A	Dense cedar stand with some patchy lowland conifer and hardwoods speckled in. A trout stream in part of the north half.																																										
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26	4130 - Aspen	Sapling Well	30.5	28	1-50	N/A	Dense mixed aspen with a good amount of maple and white birch saplings in areas. Some softer ground within but overall upland. Bigtooth diameter is much larger than average within stand.																																										
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27	4110 - Sugar Maple Association	Sawtimber Well	19.0	108	111-140	N/A	Larger log sized maple stand with good quality. Understory is very dense with well established maple saplings. 130 120 130 Average of 125 BA. Cut by Minerick # 12-06-01. Excellent sugar maple and w. ash regeneration, especially the east half. Good quality sawlog stand.																																										
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28	4130 - Aspen	Poletimber Well	7.4	40	81-110	N/A	Good quality aspen site with larger diameters than average. Maple saplings in understory.																																										
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29	3105 - Mixed Upland Herbaceous	Nonstocked	6.5		Unspecified	No	Grass opening with aspen clones and scattered white spruce.																																										
31	6120 - Lowland Cedar	Poletimber Well	9.4	169	111-140	N/A	Dense cedar stand.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
33	4110 - Sugar Maple Association	Sawtimber Well	44.5	107	141-170	N/A	Moderate to good quality hardwood log stand. Quality decreases along some edges. Very dense stocking. 190 150 180 190 150 Average of 170 BA.																																								
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34	4134 - Aspen, Spruce/Fir	Sawtimber Well	34.8	68	81-110	N/A	Large diameter aspen and conifer. NW corner has younger age class aspen clones and should be excluded from harvest. Patchy stocking in the north. Far east has some steep terrain that may not be operable.																																								
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35	4130 - Aspen	Poletimber Well	18.4	33	51-80	N/A	Aspen pole stand with some hardwood mixed in. Hardwood saplings in understory.																																								
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36	310 - Herbaceous Openland	Nonstocked	1.7		Unspecified	No	Grass opening.																																								
37	4130 - Aspen	Sapling Well	30.3	13	Immature	N/A	Mixed aspen stand. Bigtooth is abundant on higher elevations. Hardwood saplings are dominant in areas along adjacent M9 stand to the south. Patchy interior webbing within. North edge falls within 300' trout stream buffer and should be excluded from future harvest.																																								
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38	42340 - Upland Spruce/Fir	Poletimber Well	10.0	100	81-110	N/A	Dense to larger conifer. Heavy to black spruce with nice fir mixed in. Large aspen speckled across stand. A majority of this stand falls within a 300' trout stream buffer and will be retained in future management. Some low ground but a lot of upland type areas.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
39	4130 - Aspen	Poletimber Well	32.3	33	51-80	N/A	Dense aspen stand heavy to bigtooth in most areas. Maple saplings can be abundant in areas.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		31	Pole/Sapling	6	33	Sugar Maple	
Basswood		2	Pole	8		Ironwood	
Sugar Maple		2	Pole	7			
Bigtooth Aspen		63	Pole/Sapling	7	33		
Northern White Cedar		2	Pole/Log	9			
41	6120 - Lowland Cedar	Poletimber Well	42.5	103	Unspecified	N/A	Far west becomes wetter and sparser ground with some tamarack and open alder areas.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		10	Log/Pole	9		Northern White Cedar	
Balsam Fir		10	Pole	7		Balsam Fir	
Northern White Cedar		70	Pole/Log	8	103		
Black Spruce		10	Pole	7			
42	4134 - Aspen, Spruce/Fir	Sawtimber Well	21.8	75	81-110	N/A	Large diameter aspen with a heavy mix of larger conifer holding up well yet. Upland strip runs east/west between lowland and private. Did not get a look at the west half but imagery shows similar stocking except for some open patches far west. Access from Stand 53, M9 stand in the SE.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		65	Log	14	75		
Black Spruce		5	Pole	8			
White Spruce		5	Log/Pole	10			
Balsam Fir		25	Pole	8			
45	6121 - Tamarack	Poletimber Well	27.6	93	Unspecified	N/A	Lowland conifers with flooded alder areas and trout stream.
Canopy Species		% Cover	Size Class	DBH	Age		
Northern White Cedar		10	Pole/Log	9			
Balsam Fir		10	Pole/Sapling	7			
Tamarack		70	Pole	8	93		
Black Spruce		10	Pole	8			
46	4130 - Aspen	Sapling Well	25.5	6	Immature	N/A	Aspen sapling stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Poplar		10	Sapling	1			
Black Cherry		5	Sapling	2			
White Spruce		4	Sapling/Pole	3			
Balsam Fir		2	Sapling/Pole	3			
Tamarack		2	Sapling/Pole	3			
Quaking Aspen		77	Sapling	1	6		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
47	6120 - Lowland Cedar	Sawtimber Well	22.2	169	111-140	N/A	Dense cedar stand. May be able to manage some black spruce on the south edge with future adjacent management.																																										
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49	6220 - Alder/willow	Nonstocked	29.6		Unspecified	No	9/17/2020: Lake to Lake CISMA treated this area for phragmites. From OIPC Lowland brush mostly alder along Ross Grade and stream. Older beaver activity. Scattered small tamarack																																										
52	4130 - Aspen	Poletimber Well	24.5	55	81-110	N/A	Large aspen with merchantable sized conifer. Lower ground in the SE corner with sparser stocking.																																										
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53	4110 - Sugar Maple Association	Sawtimber Well	20.0	108	111-140	N/A	Excellent quality pole to small sawlog sized trees. A long, operable slope runs along the north half. A good amount of basswood mixed in. Open understory with no regen. 150 120 130 Average of 135 BA.																																										
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54	4130 - Aspen	Sapling Well	62.5	6	Immature	N/A	Dense aspen saplings. cut in 10/18 Renegade aspen.																																										
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56	411 - Northern Hardwood	Poletimber Well	17.5	100	111-140	N/A	Upland hardwood hump surrounded by dense cedar stand.																																										
64	4110 - Sugar Maple Association	Sawtimber Well	48.1	107	111-140	N/A	Good quality maple log stand. Maple saplings are more abundant than adjacent hardwood stands to the north. 130 140 130 Average of 130 BA. Unevenaged except missing saplings. High site quality. Pockets of good w. ash regen in moister locations. Last cut in 2000 by Marv Nelson # 27-99-01.																																										
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71	6139 - Mixed Lowland Forest	Poletimber Medium	43.0	93	Unspecified	N/A	Lowland hardwoods with trout stream and open alder areas. Conifer along the south edge.																																										