



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32100

Entry Year 2022

Acreage: 1,303

County Alger

Management Area: Chatham-Autrain Moraines

Revision Date: 2020-07-23

Stand Examiner: Peter Holodnick

Legal Description:

T 45N R22W Section 2,11

Identified Planning Goals:

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

Soil and topography:

Sandy loams in the gently rolling uplands. Lowlands contain poorly drained organics.

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

Private individuals north and south. Mostly State or Weirhouser now Lime lands along other boundaries.

Unique Natural Features:

Potential for northern goshawk and red-shouldered hawk. Potential for bald eagle, osprey, and great blue heron rookery. Potential for moose and wolf. Potential for wood turtle and Blanding's turtle. Potential for cerulean warbler. Potential for early hairstreak. Potential for climbing fumitory, goblin fern, large toothwort, ginseng, and showy orchis in mature hardwoods.

Archeological, Historical, and Cultural Features:

None identified with HAL

Special Management Designations or Considerations:

Johnson Creek headwaters within the compartment.

Watershed and Fisheries Considerations:

This compartment drains the Johnson Creek headwaters and tributaries. All streams located throughout this compartment are designated trout streams. In stand 17, a clear-cut is proposed where aspen in the dominate cover type. A 300 ft buffer is requested along the stream in stand 17 for the entire length of the stand. All other activities near surface water should follow the standard operating procedures identified in the BMP manual.

Wildlife Habitat Considerations:

Compartment 100 is found within the Chatham/AuTrain Management Area; on a Fluted Ground Moraine in northeastern Marquette County and western Alger County. The dominant Natural Communities are mesic northern forests and poor conifer swamps. This Management Area provides one of the best opportunities in the WUP State Forest system to manage for large grasslands and associated wildlife species. Large opening management, along with sharecropped agricultural practices will continue to be a high priority here. Wildlife management issues in this management area will focus on maintaining large open land complexes; habitat fragmentation (patch size for openings); and mowing and burning practice modifications (for the eastern compartments).

The following have been identified as featured species for the Chatham/AuTrain Management Area: bobolink, Canada goose, northern goshawk, and sharp-tail grouse.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River and Prairie du Chien Groups subcrop below the glacial drift. The Black River is quarried for stone/dolomite elsewhere in the UP. Gravel pits are located within two miles of the compartment, and potential appears to be good. This compartment has never been leased. There is no economic oil and gas production in the UP.

Vehicle Access:

West side of compartment is at the end of the Ladoga Road. East of Johnson Creek is accessed from the end of Kuivenen Road, 1 ½ miles east of Rumely.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:**Fire Protection:****Additional Compartment Information:**

This compartment contains some very high quality hardwood stands. The deer population is low in the compartment, so hardwood regeneration tends to become established. There are numerous scenic beaver ponds along the various branches of Johnson Creek.

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

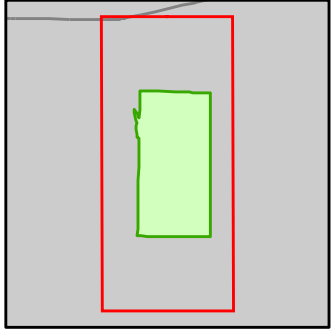


Age Class

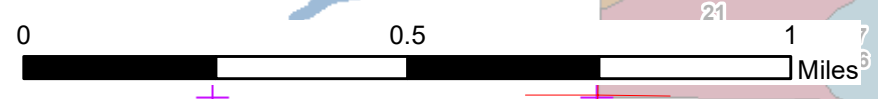
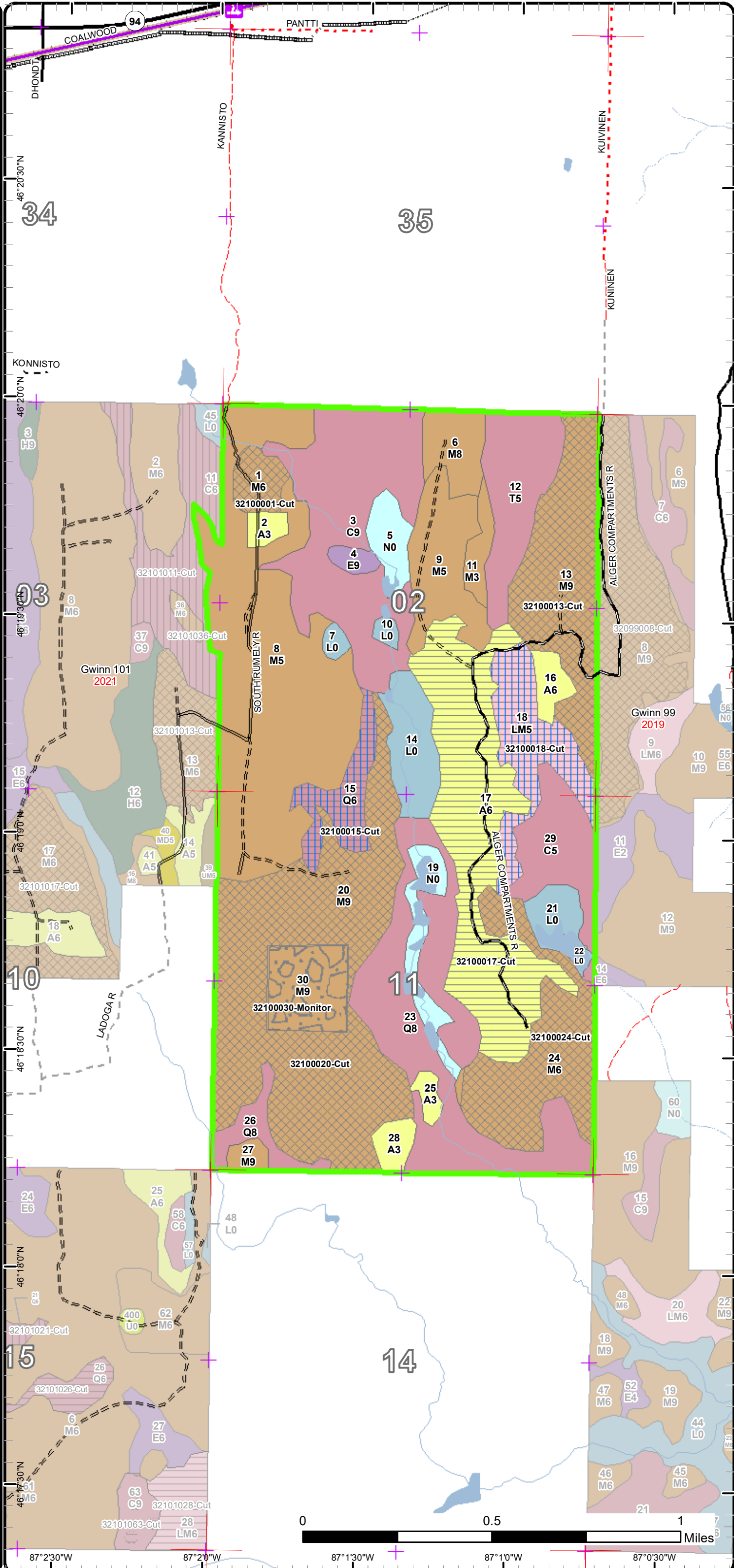
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	13	6	0	9	0	0	0	0	0	0	0	0	0	0	0	128	155
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	149	0	0	0	0	0	149
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	111	25	0	0	15	0	0	0	151
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	44
Lowland Shrub	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Marsh	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Northern Hardwood	0	0	0	0	9	0	0	0	0	204	381	0	0	0	0	0	0	75	668
Tamarack	0	0	0	0	0	0	0	0	0	47	0	0	0	0	0	0	0	0	47
Total	83	0	13	6	9	9	0	0	0	251	492	30	193	0	15	0	0	203	1302

Cover Type & Treatments Map

Compartment: 100
 T45N, R22W, Sec. 02, 11
 County: Alger
 Unit: Gwinn
 Mgmt Area: Chatham-Autrain
 Moraines
 YOE: 2022
 Acres: 1302.7 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 3/2/2021
 Map Phase: Post-Review



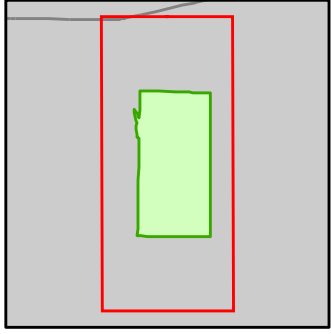
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen Types
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub
- 623 - Emergent Wetland



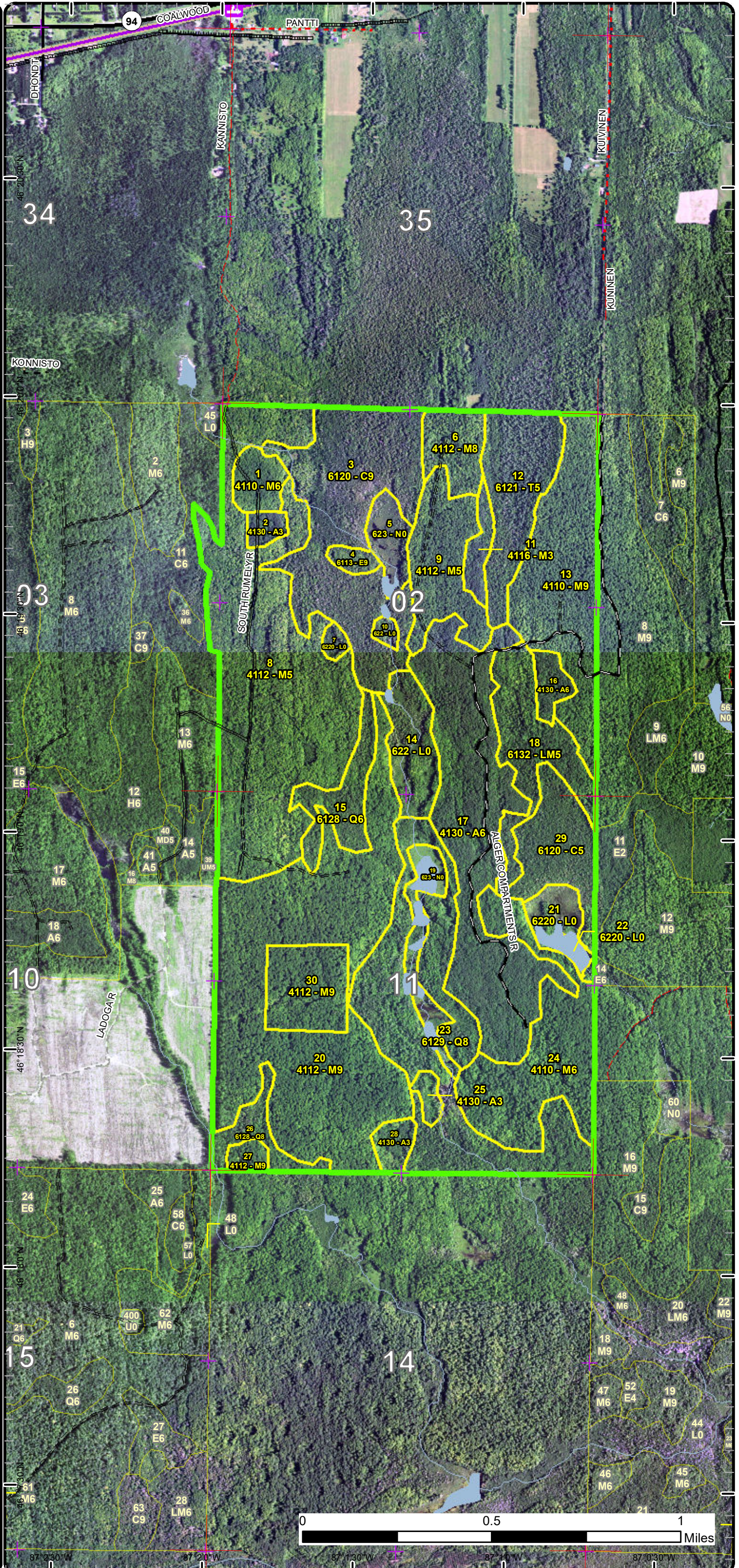
87°2'30"W 87°1'30"W 87°10'W 87°0'30"W

Stand Boundary Map

Compartment: 100
 T45N, R22W, Sec. 02, 11
 County: Alger
 Unit: Gwinn
 Mgmt Area: Chatham-Autrain
 Moraines
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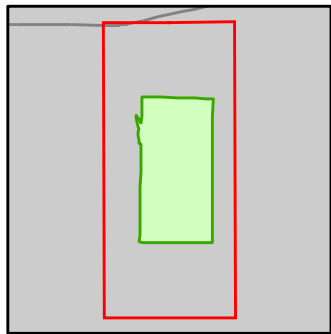


- Miris Corners
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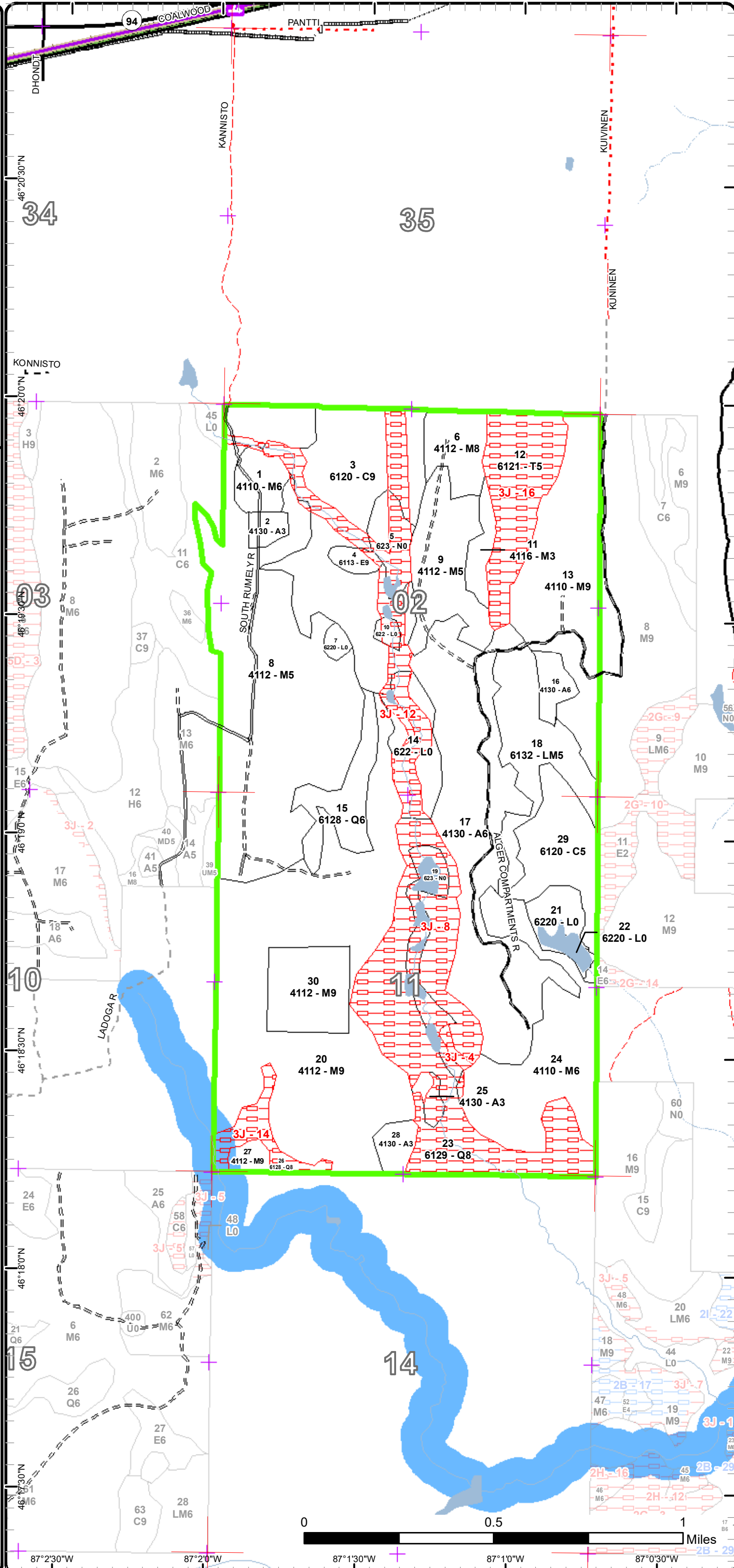


Special Conservation Areas

Compartment: 100
 T45N, R22W, Sec. 02, 11
 County: Alger
 Unit: Gwinn
 Mgmt Area: Chatham-Autrain
 Moraines
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- Miris Corners
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- Snowmobile Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Rail-Trail Corridor





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 100
Total Compartment Acres: 1,303

Commercial Harvest - 566
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	128	0	0	0	0	0	0	0	0	128
Lowland Conifers	0	0	0	25	0	0	0	0	0	25
Lowland Mixed Forest	0	0	0	44	0	0	0	0	0	44
Northern Hardwood	0	369	0	0	0	0	0	0	0	369
Total	128	369	0	69	0	0	0	0	0	566

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	566	0	0	0	0	0	29	0	0	596
Next Step	0	0	0	114	0	0	566	0	0	680
Total	566	0	0	114	0	0	596	0	0	1276



Stand	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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Approved Treatments:

1	32100001-Cut	12.9	4110 - Sugar Maple Association	Poletimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, Cedar, and White Ash. Retain all Basswood and Black Cherry to keep unless there are dense patches. If there are dense patches of Black Cherry and Basswood cut some to allow for stump sprouting of mid tolerant species. When marking make sure that some of the bigger trees are targeted to get a more of a diverse age class.</p> <p><u>Next Step:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory is acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
13	32100013-Cut	83.0	4110 - Sugar Maple Association	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, Cedar, and White Ash. Black Cherry to keep. Retain all Basswood to keep unless there are dense patches. If there are dense patches of Basswood cut some to allow for stump sprouting of mid tolerant species. When marking make sure that some of the bigger trees are targeted to get a more of a diverse age class. This can be cut in the summer or winter. The access road is wet.</p> <p><u>Next Step:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any tree currently in the overstory would be acceptable.</p> <p><u>Other Comment:</u> Use the winter cut is recommended but not required spec. Put a gravel spec in around 200 yards. This stand has lots of bigger trees and is missing that 8-10 inch DBH age class. Some of these bigger trees need to be cut out but also leaving some for wildlife.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
15	32100015-Cut	24.9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	102	51-80	Harvest	Seed Tree with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all but White Pine, Cedar and Hemlock. Green Tree a few Yellow Birch to keep. This is a winter cut only. Put 3-10% retention in areas of high Cedar and Hemlock.</p> <p><u>Next Step:</u> Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory would be acceptable.</p> <p><u>Other Comment:</u> Cut with every thing in comp 101.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
17 32100017-Cut	128.4	4130 - Aspen	Poletimber Well	50	51-80	Harvest	Clearcut with Retention	4130 - Aspen	Uneven-Aged	No
<p><u>Prescription Specs:</u> Cut all but Hemlock, Cedar, Elm, Black Cherry, and Yellow Birch. Green tree a few Basswood, Sugar Maple to keep. Leave the option open of a two inch spec on aspen during timber sale prep. A 300ft fisheries buffer on Johnson Creek will be needed. Leave 3-10% retention in this fisheries buffer. The retention should include some Large aspen with forked crowns if possible. The Basal Area is not to exceed 10 BA.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory will be acceptable.</p> <p><u>Other Comment:</u> There is lots of 2 inch Aspen. We need to way the value of starting a stand over vs. starting with 20 year old trees. That should be done during timber sale prep.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
18 32100018-Cut	44.4	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	110	81-110	Harvest	Seed Tree with Retention	6132 - Mixed Lowland Forest with Cedar	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all but Hemlock, Cedar, and Yellow Birch. Favor Black Cherry to keep. Leave 3-10% retention in areas with some cedar. The Basal area is not to exceed 30 BA.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed; Seeding, Machine Seed</p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory would be acceptable.</p> <p><u>Other Comment:</u> This would be best to be cut in the winter.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
20 32100020-Cut	198.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, Cedar, and White Ash. Favor Basswood and Black Cherry, and some Large Beech to keep. When marking make sure that some of the bigger trees are targeted to get a more of a diverse age class.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory will be acceptable.</p> <p><u>Other Comment:</u> The west edge of this stand is Beech and could have a few walk through areas as the last time it was harvest they cut the salvage areas harder. A large portion of this west edge can be excluded because it is not dense enough to cut.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</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
24 32100024-Cut	74.3	4110 - Sugar Maple Association	Poletimber Well	92	Unspecified	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
<p><u>Prescription</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, Cedar, and White Ash. Favor Basswood, Black Cherry, and Yellow Birch to keep. When marking make sure that some of the bigger trees are targeted to get a more of a diverse age class.</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> Any tree species currently in the overstory will be acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> There are different BA's throughout. The north finger has more aspen mixed in. There are lots of bigger trees.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
30 32100030-Monitor	29.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	92	81-110	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> MWR project</p> <p><u>Specs:</u> Within 5 years of harvest, monitor regeneration for acceptable stocking levels.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A diverse mix of northern hardwood species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment 595.6
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 100

Peter Holodnick: Examiner

Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions	3J
155	152	0	3	Aspen	3
149	123	0	26	Cedar	26
151	25	0	126	Lowland Conifers	126
5	4	0	1	Lowland Deciduous	1
44	44	0	0	Lowland Mixed Forest	
49	31	0	18	Lowland Shrub	18
33	4	0	29	Marsh	29
669	666	0	3	Northern Hardwood	3
47	0	0	47	Tamarack	47
1,303	1,049		253	Total Forested Acres	253
	81%		19%	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
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Type 1 trout stream (Johnson Creek)							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	187	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Type 1 trout stream (Johnson Creek)							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Type 1 trout stream (Johnson Creek)							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 100

Peter Holodnick: Examiner

Year of Entry: 2022

14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Lots of drainages flowing into Johnson creek</p>							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	47	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Wait until the tamarack fills in better. If there were more trees there would be better slash to run on. Very wet with tag alder.</p>							

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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
1	4110 - Sugar Maple Association	Poletimber Well	12.9	85	111-140	N/A	2020: dense enough hat it needs to be thinned out. Mid quality. T. sale #32-92 (Unit 2) - cut in 1995-96. Still plenty of opening in the canopy. Not much regeneration noted - browse damage. Stand has some quality potential, but contains stain, forking and other damage. More upland than adjacent stand. Strip cut in the 1930's. Good quality hardwoods.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>84</td> <td>Log/XLog</td> <td>14</td> <td>85</td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Log/Pole/XLog</td> <td>12</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Sapling/Pole/Log</td> <td>3</td> <td></td> </tr> <tr> <td>Beech</td> <td>2</td> <td>XLog/Log</td> <td>20</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>2</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Basswood</td> <td>2</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	84	Log/XLog	14	85	Red Maple	5	Log/Pole/XLog	12		Balsam Fir	5	Sapling/Pole/Log	3		Beech	2	XLog/Log	20		Black Cherry	2	Pole/Log	8		Basswood	2	Log/Pole	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	Low	5 - 10 feet	Sapling	Balsam Fir	Low	Variable	Sapling														
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2	4130 - Aspen	Sapling Well	5.6	26	Unspecified	N/A	T. sale #032-92 (Unit 1) - cut Spring, 1993 - M conversion to A. Heavy browse noted. Trace spp include BF																																																									
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3	6120 - Lowland Cedar	Sawtimber Well	110.3	119	111-140	N/A	Wet stand - drainages and creek. Some blowdown of spruce/fir; large diameter cedar, but no cedar regeneration noted. YB is dead/dying - wildlife quality only.																																																									
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4	6113 - Lowland Maple	Sawtimber Well	4.9	101	81-110	N/A	OI stand 9 Small hardwood area within Q type. Large diameter RM, cedar, H																																																									
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6	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	20.3	90	81-110	N/A	stand 3 T. sale #024-02 - Unit 4 of "Kuivinen Road #2" sale - cut January, 2007. Lowland edge has thicker subcanopy of BF (2" dbh and 20-30 ft hts). Beech, maple snags present. 80 to 90 BA. Some Wet drainages with in the stand.																																																								
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8	4112 - Maple, Beech, Cherry Association	Poletimber Medium	191.3	88	81-110	N/A	T. sale #032-92 "Johnson Creek Hardwood Block" (Units 2-5) cut 1993 - 1996. Fairly thick beech regeneration (in patches). Hemlock patches. Area was strip cut in the 1930's. This stand had beech in it and looks as though it was cut a little harder in 1996 so it will need some time to grow into the space. Canopy needs to come together more.																																																								
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11	4116 - Mixed N. Hardwood - Aspen	Sapling Well	9.2	37	51-80	N/A	stand 6 part of N. Johnson Creek Block, which was cut in the late 70's and early 80's. Stand borders low/creek. Lots of variation in sizes wait until the aspen gets bigger to harvest.																																																																				
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12	6121 - Tamarack	Poletimber Medium	46.8	87	1-50	N/A	stand 4 Lab tea, tag alder low pockets interspersed w/T,BS. Cut the merchantable Tamarack. Lots of variation in size classes. It is fairly dry for a Tamarack stand could be cut in a dry summer. Some of the tamarack is starting to fall apart.																																																																				
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13	4110 - Sugar Maple Association	Sawtimber Well	83.0	92	111-140	N/A	sale #024-02 "Kuivinen Road #2" (Units 1,2,3) - cut later summer, 2005. Ground cover sweet cicely, burdock. More subcanopy S/F and trace spp at transition edges of stand. This stand has lots of bigger trees and is missing that 8-10 inch DBH age class. Some of these bigger trees need to be cut out but also leaving some for wildlife. High quality Hardwoods.																																																																				
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15	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	24.9	102	51-80	N/A	stand 15 Wet stand with drainage.																																																																					
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16	4130 - Aspen	Poletimber Well	8.7	43	111-140	N/A	OI stand 21 T. sale #020-72 "N. Johnson Creek Block" - cut 70's through early 80's. Diameters range from 3-7". Trace spp noted: YB, BC. cut next entry.																																																																					
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18	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	44.4	110	81-110	N/A	Blowdown - sparse areas. Transition edge of hardwood stand included - low ground. South end contains smaller diameters (6-8"). Intermittent drainage/creek within. Trace amounts of SM, H																																																																					
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20	4112 - Maple, Beech, Cherry Association	Sawtimber Well	198.3	92	111-140	N/A	2002: The west portion of this stand is Beech and has a lot less BA in it. Portion of stand was harvested as part of Walters-Rolloff regen study, now a different stand. TSI in 1978 - thinned. T. sale # 025-02 "Cannon Camp Sale" (Units 1-8, 11) - cut Summer, 2003. Trace amounts of hemlock, YB. This stand has Varying BAs and seems to get less dense as you move west across the stand. The west side probably had more beech cut out of it in 2003.																																																											
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23	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	111.0	94	Unspecified	N/A	Sparse stand, wet areas - contains Johnson Creek, drainages. lots of drainages.																																																											
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24	4110 - Sugar Maple Association	Poletimber Well	75.2	92	Unspecified	N/A	T. sale #033-92 "Wendt Camp sale" - cut in 1992-93.																																																											
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26	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	15.4	132	Unspecified	N/A	contains many intermittent drainage. lots of flowing water. You would need a 300ft fisheries buffer on Johnson Creek.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29	6120 - Lowland Cedar	Poletimber Medium	38.8	110	81-110	N/A	
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Blowdown - sparse areas. Transition edge of hardwood stand included - low ground. South end contains smaller diameters (6-8"). Intermittent drainage/creek within. Trace amounts of SM, H

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log	10		Northern White Cedar	Medium	Variable	Sapling
Yellow Birch	2	Log	14		Black Ash	Medium	>20 feet	Sapling
Balsam Fir	15	Pole/Sap/Log	5					
Black Spruce	3	Pole	8					
Northern White Cedar	60	Pole/Log	8	110				
Black Ash	15	Pole	6					

30	4112 - Maple, Beech, Cherry Association	Sawtimber Well	31.1	92	81-110	N/A	
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12/3/2020 KM: Walters project crew reports that spraying (7/11/20) and scarification were both completed this year. this was harvested as part of Walters-Rolloff regen study. TSI in 1978 - thinned. T. sale # 025-02 "Cannon Camp Sale" (Units 1-8, 11) - cut Summer, 2003. Trace amounts of hemlock, YB.

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