



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32079

Entry Year 2024

Acreage: 1,139

County Marquette

Management Area: Dead Horse Moraines

Stand Examiner: Peter Holodnick

Legal Description:

T43N R24W Sec(s) 16, 17, 18

Identified Planning Goals:

Improve the quality and diversity of the extensive Northern Hardwoods stands through selective management while maintaining the conifer component and den trees for wildlife.

Soil and topography:

Geologic features include a nearly level glacial drainageway, ground moraines and till plains. Soils range from organic swamps and poorly drained loamy soils to well drained loams. Major soil series include Carbondale, Trenary loams and Kalkaska sands.

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

This compartment is bordered on the north, east and south by additional State and corporate land and on the west by private forestland. Primary land use is production of commercial forest products and low key recreation.

Unique Natural Features:

GBH rookery to northeast. Eagle to the southwest in section 24. Potential for RSH and goshawk in M6 stands. Potential for calypso bulbosa, round leaved orchid, limestone oak fern and Cypripedium arietinum in cedar swamp.

Archeological, Historical, and Cultural Features:

None identified with HAL but the compartment does contain evidence of old logging camps.

Special Management Designations or Considerations:

Riparian corridor stands along drainages.

Watershed and Fisheries Considerations:

This compartment contains headwaters of Swimming Hole Creek which serves as a tributary to the Mainstem Escanaba River. Swimming Hole Creek is a designated Type 1 trout stream less than 50' width with a predicted mean July temperature of 65.8 °F (cold stream). A 300' buffer is recommended for Swimming Hole Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 079 is found within the Chain Lakes Moraine Management Area, on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for the Chain Lakes Management Area: black bear, gray jay, pileated woodpecker, Northern goshawk, red crossbill.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of medium-textured till and minor medium-textured glacial till and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River Group subgroups below the glacial drift. The Black River is quarried for stone/dolomite elsewhere in the UP. A gravel pit is located

three miles to the south and there should be potential on the uplands. Abandoned iron mines are located nine miles to the north. There have been previous metallic leases in the township, but not in the compartment. There is no economic oil and gas production in the UP.

Vehicle Access:

Access to the compartment is via Hamilton Homestead Road and the Escanaba River Road.

Survey Needs:

Recreational Facilities and Opportunities:

The primary recreational activity for this area is for ruffed grouse and whitetail deer hunting.

Fire Protection:

This compartment has a very low risk for wildfire.

Additional Compartment Information:

The following reports from the Inventory are attached:

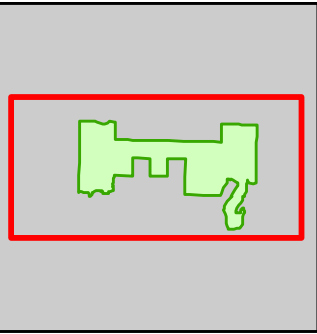
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

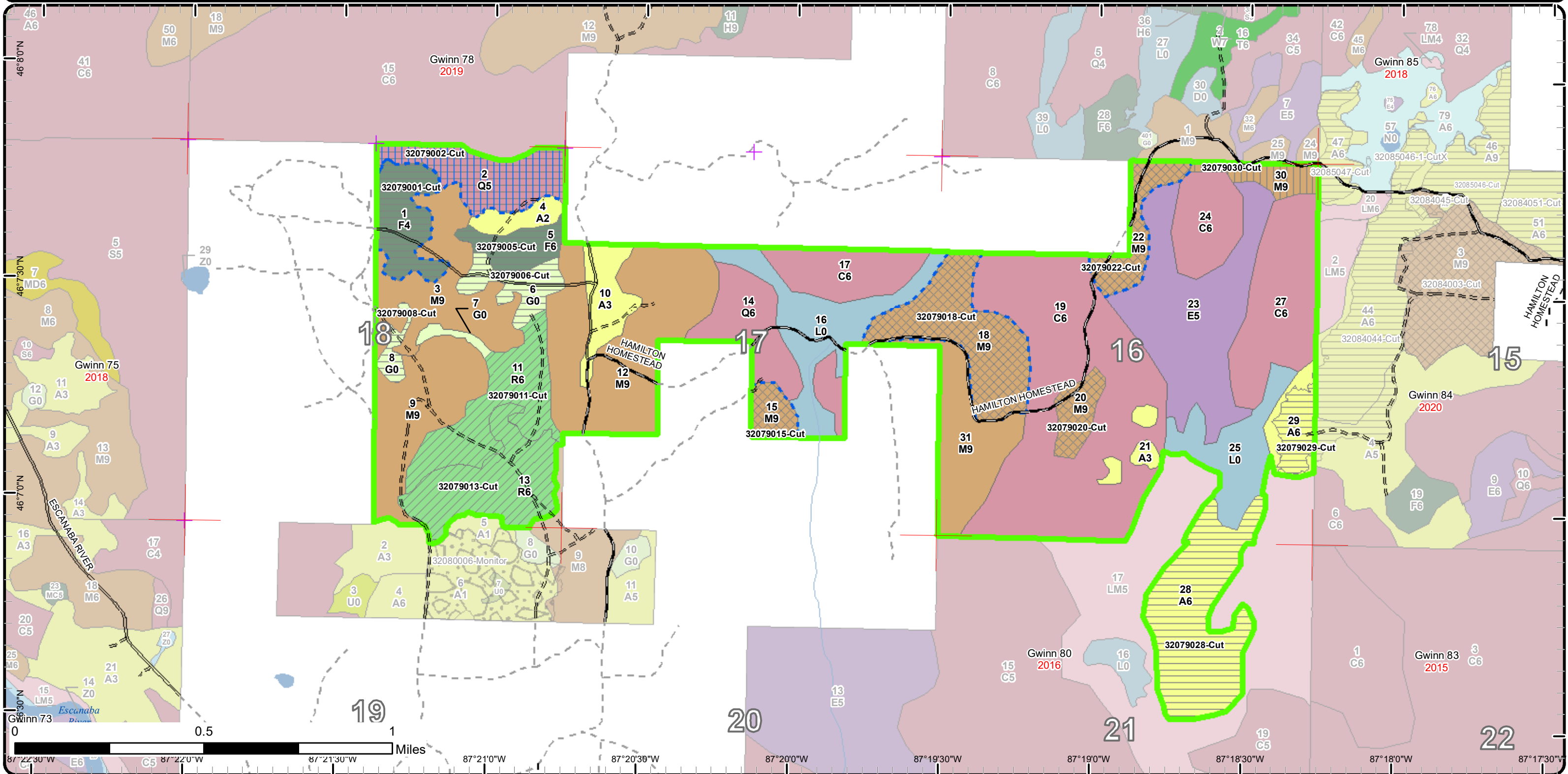
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 79
 T43N, R24W, Sec: 16-18
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2024
 Acres: 1138.8 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 8/4/2022
 Map Phase: Web-Post

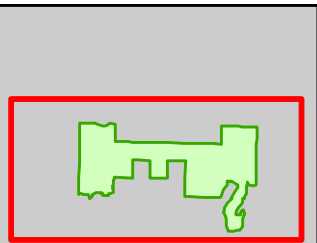


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub

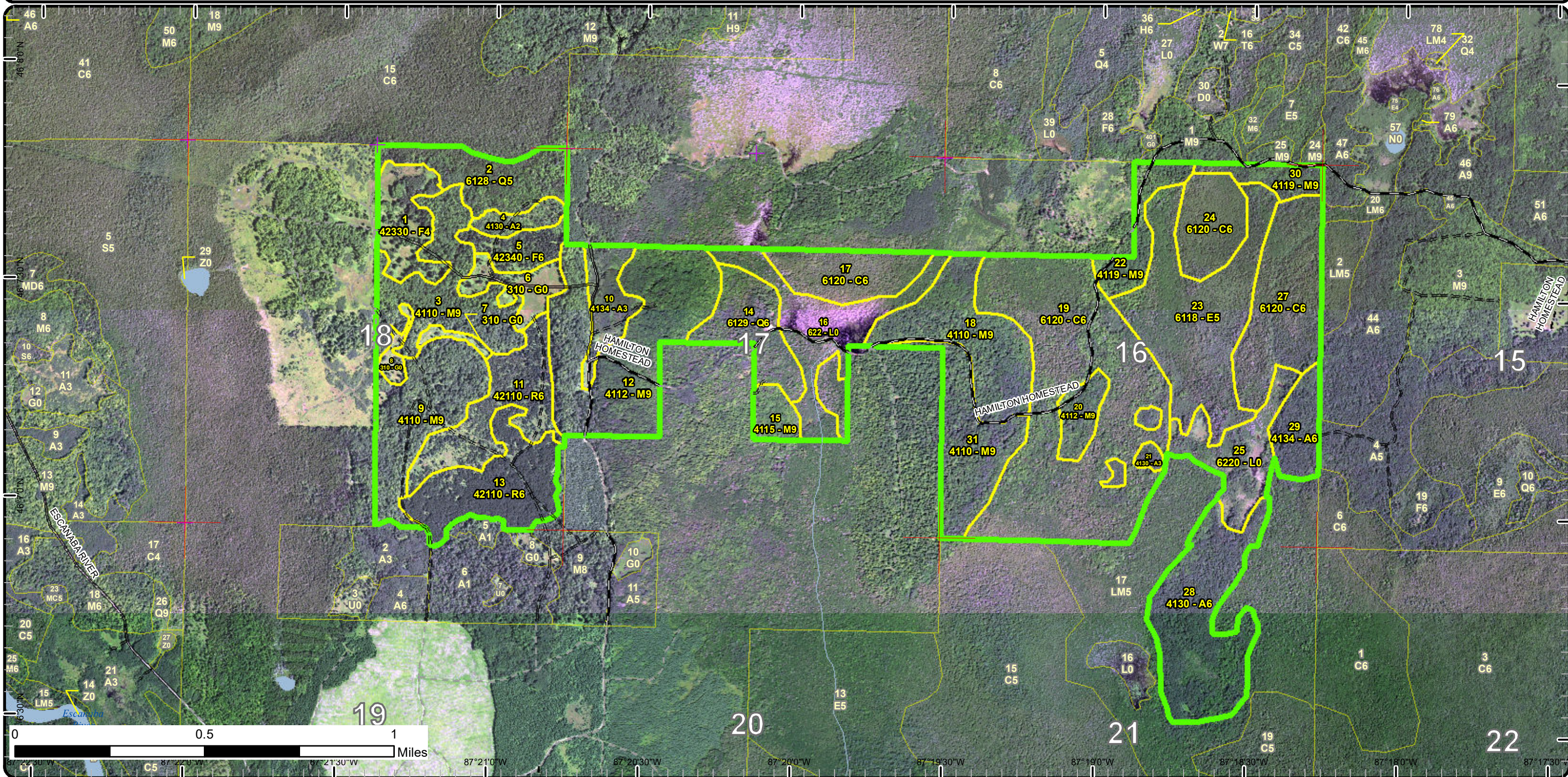


Stand Boundary Map

Compartment: 79
 T43N, R24W, Sec: 16-18
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse
 Moraines
 YOE: 2024
 Acres: 1138.8 GIS Calculated
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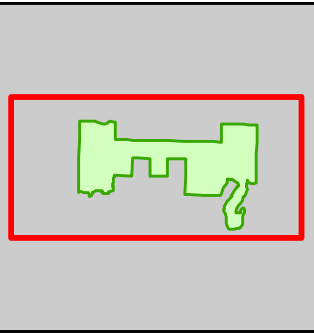


- Miris Corners
 - + Remonumented Section Corners
 - Counties
 - DNR - Primary Forest Road
 - DNR - Secondary Forest Road
 - DNR - Forest Access Route
 - Federal / State - Dirt / Gravel Road
 - Private - Dirt / Gravel Road
 - Lake/Pond
 - Perennial River
 - Lakes and Rivers
 - Compartment Boundary
 - Stand Boundaries
- 413 - Aspen
 - 421 - Planted Pines
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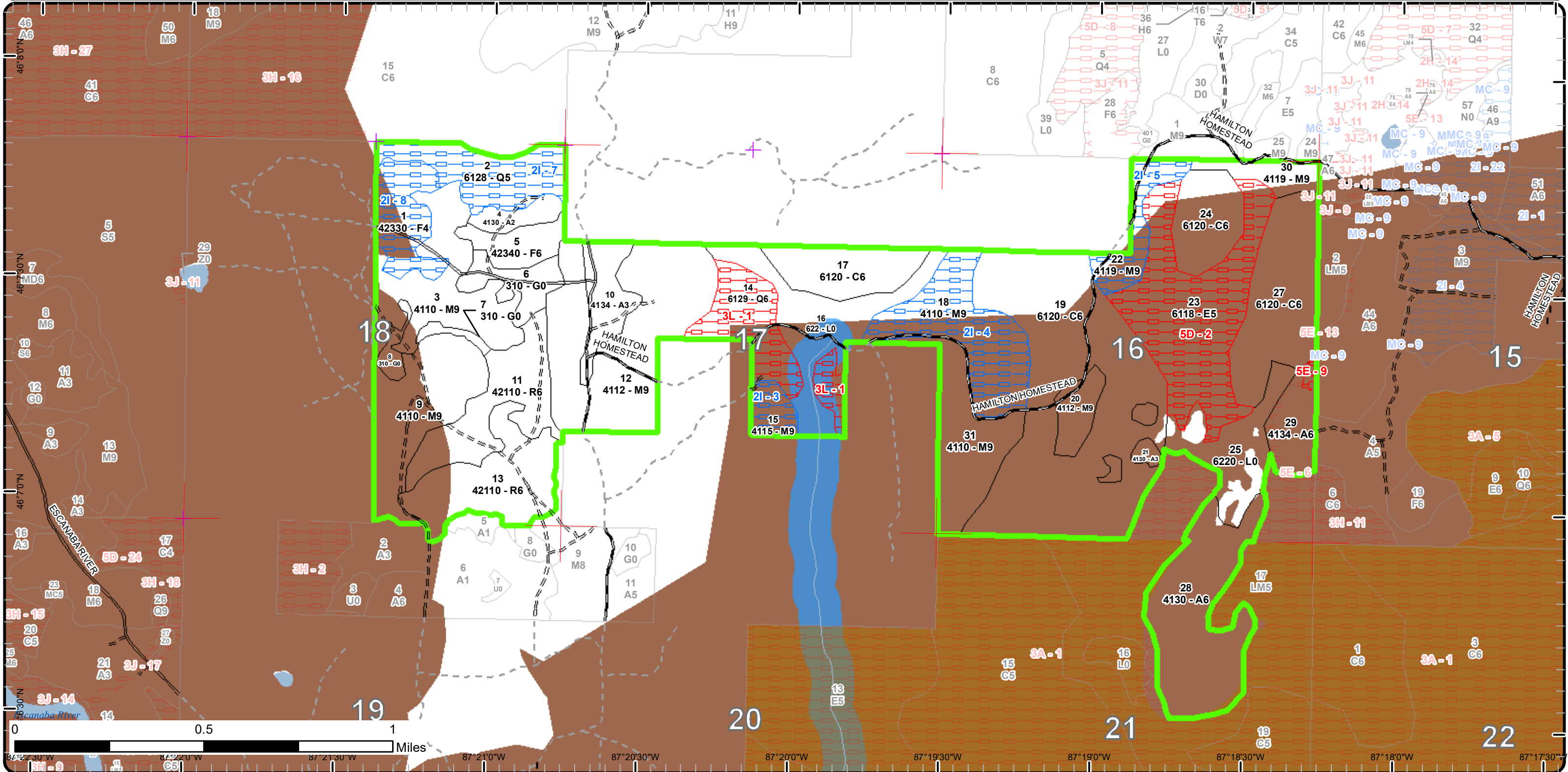


Special Conservation Areas

Compartment: 79
 T43N, R24W, Sec: 16-18
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2024
 Acres: 1138.8 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 8/4/2022
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Forest Habitat Core Interior
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit
Peter Holodnick: Examiner

Compartment 79 Year of Entry 2024



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	9	27	0	91	0	0	0	0	0	0	0	0	0	0	0	0	125
Cedar	0	0	0	0	0	0	0	0	0	57	0	27	187	0	0	0	0	0	271
Herbaceous Openland	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Conifers	0	0	0	0	0	0	0	0	0	39	0	35	0	0	0	0	0	0	74
Lowland Deciduous	0	0	0	0	0	0	0	0	0	87	0	0	0	0	0	0	0	0	87
Lowland Shrub	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Northern Hardwood	0	0	0	0	0	0	0	0	52	156	84	0	0	0	0	0	0	53	345
Red Pine	0	0	0	0	91	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Upland Spruce/Fir	0	0	0	0	0	0	26	15	0	0	0	0	0	0	0	0	0	0	41
Total	104	0	9	27	91	91	26	15	0	52	339	84	62	187	0	0	0	53	1137



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 79
Total Compartment Acres: 1,139

Commercial Harvest - 236
Harvests with Site Condition - 143
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	84	0	0	0	0	0	0	0	0	84
Herbaceous Openland	21	0	0	0	0	0	0	0	0	21
Lowland Conifers	0	0	0	35	0	0	0	0	0	35
Northern Hardwood	0	95	0	0	12	0	0	0	0	107
Red Pine	0	0	0	0	0	90	0	0	0	90
Upland Spruce/Fir	42	0	0	0	0	0	0	0	0	42
Total	147	95	0	35	12	90	0	0	0	379

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	379	0	0	0	0	0	0	0	0	379
Next Step	0	62	62	0	0	62	351	0	0	538
Total	379	62	62	0	0	62	351	0	0	917



Stand Name	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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Proposed Treatments:

1	32079001-Cut	26.4	42330 - Upland Fir	Poletimber Poor	59	Unspec ified	Harvest	Clearcut	3102 - Grass		No
<p><u>Prescription</u> Cut all trees that are 2" or greater. No retention because it is a grassy opening. winter cut only due to deer yard. Deering wintering complex- winter cut only.</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> None</p> <p><u>Regen:</u></p> <p><u>Other</u> This used to be a grassy opening before it filled in with trees.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
2	32079002-Cut	35.1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	110	Unspec ified	Harvest	Seed Tree with Retention	6124 - Lowland Spruce-Fir	Even-Aged	No
<p><u>Prescription</u> Cut all trees except Hemlock and Cedar. Put your retention in areas with heavy cedar. This area could be significantly reduced due to Cedar pockets. Deer winter complex- winter cut only.</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 is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
5	32079005-Cut	15.2	42340 - Upland Spruce/Fir	Poletimber Well	62	81-110	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees that are 2" or greater. No retention because we are trying to cut all of the non-native Larch. No cutting of Hemlock/Cedar. Plant to Red Pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping; SitePrep, Trenching; Monitoring, Artificial Regen(1yr); Planting, Initial</p> <p><u>Treatments:</u> Plant; Planting, Replant; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Monitoring, Inv</p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Lots of Budworm damage.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
6	32079006-Cut	16.0	310 - Herbaceous Openland	Nonstocked		Unspec ified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees that are 2" or greater. No retention because it is a grassy opening. Plant to Red Pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Pesticide,</p> <p><u>Treatments:</u> Skidder - Site Prep; Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr); Monitoring, Her</p> <p><u>Acceptable</u> Red Pine</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 /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
8 32079008-Cut	5.0	310 - Herbaceous Openland	Nonstocked		Unspecified	Harvest	Clearcut	3102 - Grass		No
<u>Prescription</u> Cut all trees that are 2" or greater. No retention because it is a grassy opening.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> None										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2023										
11 32079011-Cut	42.6	42110 - Planted Red Pine	Poletimber Well	35	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> First entry Red Pine thinning. Harvest every third row. In areas without distinct rows rows will need to be made.										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u> Red Pine										
<u>Regen:</u>										
<u>Other</u> This stand is more open grown then then stand 13 and has smaller bushier trees.										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2023										
13 32079013-Cut	47.7	42110 - Planted Red Pine	Poletimber Well	35	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> First entry Red Pine thinning. Harvest every third row.										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u> Red Pine										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2023										
15 32079015-Cut	9.8	4115 - Y.Birch, Hemlock NH	Sawtimber Well	108	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<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. Favor retention and recruitment of Basswood and Yellow Birch. Designate all Spruce/Fir for harvesting. Cut in the winter due to deer yard.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Any tree species currently in the overstory is acceptable.										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u> Survey Needed										
<u>Proposed Start Date:</u> 10/1 /2023										

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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
18	32079018-Cut	52.7	4110 - Sugar Maple Association	Sawtimber Well	97	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	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. Favor retention and recruitment of Basswood and Yellow Birch. Designate all Spruce/Fir for harvesting. Cut in the winter due to deer yard.</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 is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
20	32079020-Cut	12.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	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. Favor retention and recruitment of Basswood and Yellow Birch. Designate all Spruce/Fir for harvesting. Cut in the winter due to deer yards.</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 is acceptable</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 /2023</p>											
22	32079022-Cut	19.3	4119 - Mixed Northern Hardwoods	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	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. Favor retention and recruitment of Basswood and Yellow Birch. Designate all Spruce/fir for harvesting. Cut in the winter due to deer yards.</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 is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
28	32079028-Cut	71.3	4130 - Aspen	Poletimber Well	45	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all but Hemlock and Cedar. Include basswood and maple in retention patches. Leave 3-10% retention. Cut in the winter due to deer yards.</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 is acceptable.</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 /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
30 32079030-Cut	12.3	4119 - Mixed Northern Hardwoods	Sawtimber Well	98	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Even-Aged	No
<u>Prescription</u> Mark to between 40-60 BA. Mark to promote diversity and for quality of trees. Cut all Balsam Fir, Aspen, and Spruce. No cutting of Cedar and Hemlock										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Any tree species currently in the overstory is acceptable.										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2023										

Approved Treatments:

29 32079029-Cut	12.8	4134 - Aspen, Spruce/Fir	Poletimber Well	45	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Cut all trees except Cedar/ Hemlock Leave 3-10% patch retention in the stand. cut in winter because of deer winter range.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Any tree species currently in the overstory would be acceptable.										
<u>Regen:</u>										
<u>Other</u> When writing up the sale use the 2" spec to help get better aspen regeneration. Wildlife - Add a winter cutting specification – Deer										
<u>Comment:</u> wintering complex										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2021										

Total Treatment 378.9
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 79

Peter Holodnick: Examiner

Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2I	3L	5D	5E
126	120	0	6	Aspen				6
271	271	0	0	Cedar				
24	24	0	0	Herbaceous Openland				
74	0	35	39	Lowland Conifers	35	39		
87	0	0	87	Lowland Deciduous			87	
80	80	0	0	Lowland Shrub				
345	263	82	0	Northern Hardwood	82			
90	90	0	0	Red Pine				
42	15	26	0	Upland Spruce/Fir	26			
1,139	864	143	132	Total Forested Acres	143	39	87	6
	76%	13%	12%	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	3L: Other wildlife concerns	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments: lots of Hemlock, Cedar, and White Pine							
2	Unavailable	5D: Unproductive Forest Land	87	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	2I: Survey needed	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 79

Peter Holodnick: Examiner

Year of Entry: 2024

4	Available	2I: Survey needed	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	2I: Survey needed	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	2I: Survey needed	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	2I: Survey needed	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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	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	42330 - Upland Fir	Poletimber Poor	26.4	59	Unspecified	N/A	includes clumps of hardwoods.																																																								
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2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	35.1	110	Unspecified	N/A																																																									
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3	4110 - Sugar Maple Association	Sawtimber Well	52.3	88	81-110	N/A	2005-Cut by St. John under permit # 029-04-01 3/2006 Request to Harvest/Treat stands outside YOE for underplanting FTP # W32-650 - Signed by all Divisions and on file in CMPT 79																																																								
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4	4130 - Aspen	Sapling Medium	9.2	14	Unspecified	N/A	2005-Cut by St. John under permit # 029-04-01.																																																								
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5	42340 - Upland Spruce/Fir	Poletimber Well	15.2	62	81-110	N/A	Planted to European larch in 1986 which was hit hard by wildlife browsing (deer and porkys) Remaining trees are 20-30' tall mixed with fir and white spruce poles and saps. BF has spruce budworm damage 2022.																																																								
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6	310 - Herbaceous Openland	Nonstocked	16.0		Unspecified	No																																																									
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9	4110 - Sugar Maple Association	Sawtimber Well	51.1	98	81-110	N/A	Fair quality hardwoods over heavy ironwood. Essentially no maple regeneration from the previous cutting despite large gaps. Good site quality with leeks, leatherwood, dutchman's breeches, etc. Last harvest 03/2017. BA is 90 in 2022.																																								
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10	4134 - Aspen, Spruce/Fir	Sapling Well	19.8	26	Unspecified	N/A	2-4" aspen saplings with scattered balsam fir. Semi open. A2F1																																								
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11	42110 - Planted Red Pine	Poletimber Well	42.6	35	81-110	N/A	The northern portion of a larger stand planted in 1986 which had poor survival and growth rate. Semi open areas are heavy grass. More open grown Red Pine 2022.																																								
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12	4112 - Maple, Beech, Cherry Association	Sawtimber Well	92.1	90	81-110	N/A	Contains vernal ponds north of HH rd. Heavy ironwood in the understory. Last harvested 03/2017.																																								
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13	42110 - Planted Red Pine	Poletimber Well	47.9	35	81-110	N/A	Planted in 1986, dense stocking with skips in survival throughout the stand. Short, 1 stick 7" dbh poles.																																																					
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14	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	38.7	95	81-110	N/A	Q5 over tag alder																																																					
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15	4115 - Y.Birch, Hemlock NH	Sawtimber Well	9.8	108	81-110	N/A	Cut hard in 1980. West side of stand has lower dbh and stocking level with a ba of about 80. Occasional large hemlock and yb.																																																					
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16	622 - Lowland Shrub	Nonstocked	46.3		Unspecified	No																																																						
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20	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.7	108	111-140	N/A	Poor quality northern hardwood stand. 2006-Treated by St. John under permit # 030-04-01 in 2005. 3/2006 Request to Harvest/Treat stands outside YOE for underplanting FTP # W32-651 - Signed by all Divisions and on file in CMPT 79. 20,000 hemlock seedlings were planted within the timber sale boundary of the Hamilton House sale (#32-030-04) in May, 2006. The sale was comprised of stands 20 and 18 in this compartment. The planting rate was approximately 345 seedlings/acre.																																																			
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21	4130 - Aspen	Sapling Well	6.7	26	Unspecified	N/A	3 small stands of dense1" aspen saplings over scattered small fir. Cut under permit 035-94-01.																																																			
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22	4119 - Mixed Northern Hardwoods	Sawtimber Well	19.3	108	111-140	N/A	Area treated under timber sale # 035-094-01. Poor quality. Approximately 3 acres of stand treated under #021-09-01 "H.H. Patches" - cut Sept., 2010. BA all over the place, stand was cut hard last entry except along the blue line.																																																			
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Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		25	Log/Pole	10		Black Ash	
Black Ash		40	Sapling/Pole	4	95	Low	
Paper Birch		20	Sapling/Pole	4		Variable	
Balsam Fir		15	Pole/Sapling	5		Sapling	
						Red Maple	
						Low	
						Variable	
						Sapling	
24	6120 - Lowland Cedar	Poletimber Well	27.2	110	Unspecified	N/A	Cedar with associated swamp conifers.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		65	Pole/Sapling	8	110	Conifers	
Balsam Fir		25	Pole/Sapling	8		Medium	
Paper Birch		10	Pole	8		Variable	
						Pole	
25	6220 - Alder/willow	Nonstocked	33.7		Unspecified	No	
27	6120 - Lowland Cedar	Poletimber Well	57.1	95	Unspecified	N/A	Mix of cedar, fir, aspen, balm, w.birch
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		65	Pole/Log	8	95	Conifers	
Hemlock		15	Log/Pole	10		Medium	
Paper Birch		5	Pole/Sapling	6		Variable	
Balsam Fir		10	Pole/Sapling	5		Sapling	
Balsam Poplar		5	Pole/Log	8			
28	4130 - Aspen	Poletimber Well	71.3	45	Unspecified	N/A	A5A3F1
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		80	Pole/Sapling	5	45	Balsam Fir	
Basswood		5	Log/Pole	10		Low	
Sugar Maple		15	Log/Pole	12		Variable	
						Sapling	
29	4134 - Aspen, Spruce/Fir	Poletimber Well	19.2	45	Unspecified	N/A	A5A3 Stand is transitioning to a pole stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Log/Pole	10		Quaking Aspen	
Red Maple		5	Log/Pole	16		Medium	
Quaking Aspen		60	Log/Pole	10	45	Variable	
Balsam Poplar		10	Log/Pole	12		Sapling	
Balsam Fir		15	Pole/Log	8			
Northern White Cedar		5	Pole/Sapling	5			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30 4119 - Mixed Northern Hardwoods Sawtimber Well 12.3 98 81-110 N/A

Area treated under timber sale # 035-094-01. Poor quality. Approximately 3 acres of stand treated under #021-09-01 "H.H. Patches" - cut Sept., 2010. BA all over the place, stand was cut hard last entry except along the blue line.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole/Log	8		Sugar Maple	Low	5 - 10 feet	Sapling
Black Spruce	10	Log/Pole	10		White Spruce	Low	Variable	Sapling
Northern White Cedar	5	Log/Pole	10		Quaking Aspen	Low	>20 feet	Sapling
Red Maple	35	Log/Pole	11	98	Ironwood	Low	Variable	Sapling
Sugar Maple	30	Log/Pole	11					
Balsam Fir	10	Pole/Log	9					

31 4110 - Sugar Maple Association Sawtimber Well 42.6 108 81-110 N/A

Good quality northern hardwood stand. 2006-Treated by St. John under permit # 030-04-01 in 2005. 3/2006 Request to Harvest/Treat stands outside YOE for underplanting FTP # W32-651 - Signed by all Divisions and on file in CMPT 79. 20,000 hemlock seedlings were planted within the timber sale boundary of the Hamilton House sale (#32-030-04) in May, 2006. The sale was comprised of stands 20 and 18 in this compartment. The planting rate was approximately 345 seedlings/acre.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Log/Pole	13		Sugar Maple	Low	Variable	Sapling
Basswood	18	Log/Pole	15		Wild Red Raspberry	Full	< 5 feet	Tall Shrub
Sugar Maple	77	Log/Pole	13	108	Ironwood	Low	Variable	Sapling
Hemlock	2	Log/Pole	13		Leatherwood	Low	< 5 feet	Tall Shrub