



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32239

Entry Year 2023

Acreage: 1,168

County Marquette

Management Area: Chain Lakes Moraine

Revision Date: 2021-08-03

Stand Examiner: Rick Hill

Legal Description:

T45N R28W Sec. 28 ; Sec 33

Identified Planning Goals:

Vegetative management in the Chain Lake management area will provide a variety of forest products; maintain or enhance wildlife habitat; protect areas with unique characteristics; and provide for forest based recreational uses. Timber management objectives for the 10-year planning period include improving the age-class distribution of aspen, lowland conifer, and lowland spruce/fir; maintaining the conifer component in northern hardwood stands; maintaining the presence of minor cover types on the landscape; and maintaining non-forest vegetation types. Wildlife management objectives include increasing diversity and long-term oak sustainability through under planting white and red pine; and to maintain or increase wildlife corridors especially along riparian areas. Management activities may be constrained by site conditions and the skewed age-class distributions. Balancing age classes and oak regeneration will be priority.

Soil and topography:

Soils belong to the Rubicon-Keweenaw (RK) and Sagola-Rubicon (SR) Associations. The Rubicon-Keweenaw soils are very deep, well drained to excessively drained, sandy soils. Sagola-Rubicon soils are very deep, well to excessively drained, loamy and sandy soils. Minor soil types within these associations such as the Carbondale, Greenwood, and Deford types are present within depressions and drainages. Topography is fairly level with some gently rolling hills.

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

Ownership within and surrounding the compartment is primarily state land. Scattered small private in holdings do exist as does the Michigan Northwoods Club which is a large private land holding approximately 2 miles to the northeast. Development on these private parcels is hunting camps. Land use is timber production and recreation.

Unique Natural Features:

There are none known.

Archeological, Historical, and Cultural Features:

An old logging railroad grade does exist which transported logs to Kate's Grade from the Flat Rock area. The area has the potential for old logging camps as well.

Special Management Designations or Considerations:

RMZ's along waterways are present within this compartment.

Watershed and Fisheries Considerations:

This compartment contains Flat Rock Creek and an unnamed stream that serves as tributary to Wild West Creek. Flat Rock Creek is designated a Type 1 trout stream less than 50' width and has a predicted mean July temperature of 63.1 °F (cold stream). A 300' buffer is recommended for Flat Rock 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.

The unnamed stream that serves as tributary to Wild West Creek is designated a Type 1 trout stream less than 50' width and has a predicted mean July temperature of 60.8 °F (cold stream). A 300' buffer is recommended for this unnamed tributary 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 239 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 peat and muck and medium-textured and coarse-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. There is not a current economic use for the Granite/Gneiss. A rock quarry is indicated on the topo one-half mile to the north. Gravel pits are located four miles away, and potential may be good to the south. The abandoned Republic iron mine is located ten miles to the northwest. Sections 28, 29 and 34 were previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Access within the compartment is fair. The Camp Hope Road provides access from the north and secondary woods roads provide access from the south off of Co. Rd. COO. An easement does exist through the Camp Hope Inc. property which allows a through route. Portions of these roads are very rough.

Survey Needs:

Any survey requests needed will be submitted after review.

Recreational Facilities and Opportunities:

At this time there are no developed recreational facilities. There is a traditional dispersed camping area along the Flat Rock Creek.

Fire Protection:

This area is within the Ishpeming Field Office protection area and is approximately two miles south of the 581 Zone Dispatch area. Timber types within this compartment are not very fire prone. Roads exist throughout the compartment providing decent access in the event of a fire.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

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

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

Report 1 – Total Acres by Cover Type and Age Class

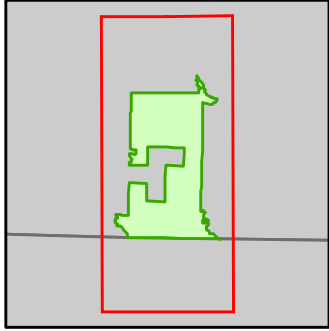


Age Class

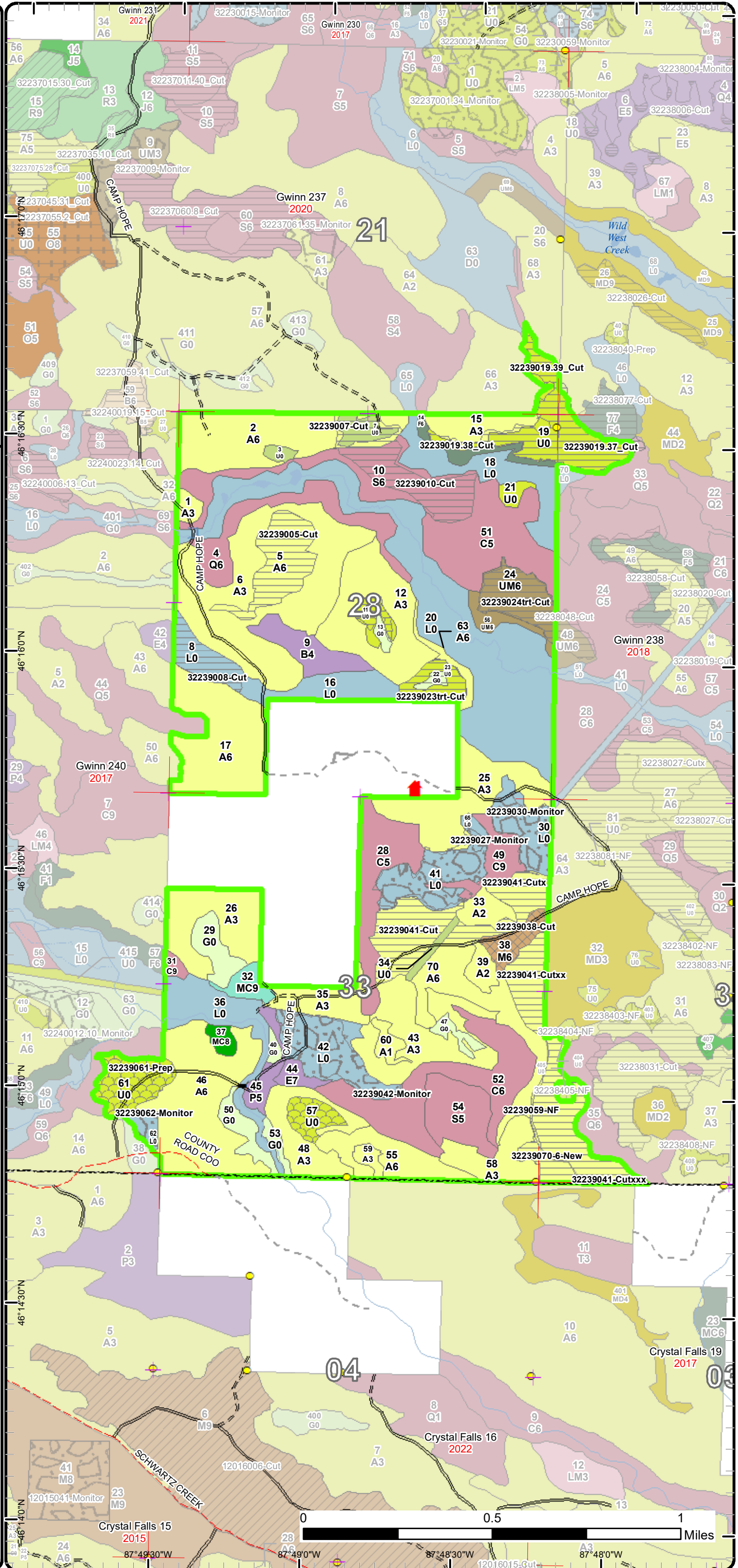
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	37	144	97	134	122	21	4	0	0	0	0	0	0	0	0	0	0	559
Cedar	0	0	0	0	0	0	0	0	0	92	26	2	0	0	0	0	0	0	120
Herbaceous Openland	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Low-Density Trees	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70
Lowland Aspen/Balsam Poplar	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	23
Lowland Deciduous	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Lowland Shrub	240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	239
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	56	0	0	0	0	0	0	0	0	55
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
Northern Hardwood	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
Paper Birch	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	13
Upland Conifers	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	21
Upland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Upland Spruce/Fir	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Total	347	37	144	97	134	129	21	4	6	17	206	26	5	0	0	0	0	0	1170

Cover Type & Treatments Map

Compartment: 239
 T45N, R28W, Sec.21, 27, 28, 32, 33
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2023
 Acres: 1167.9 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/13/2021
 Map Phase: Review

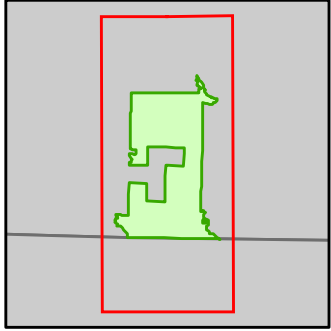


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Bridges
- Culvert
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- Mowing
- Site Prep
- 411 - Northern Hardwood
- 413 - Aspen Types
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub

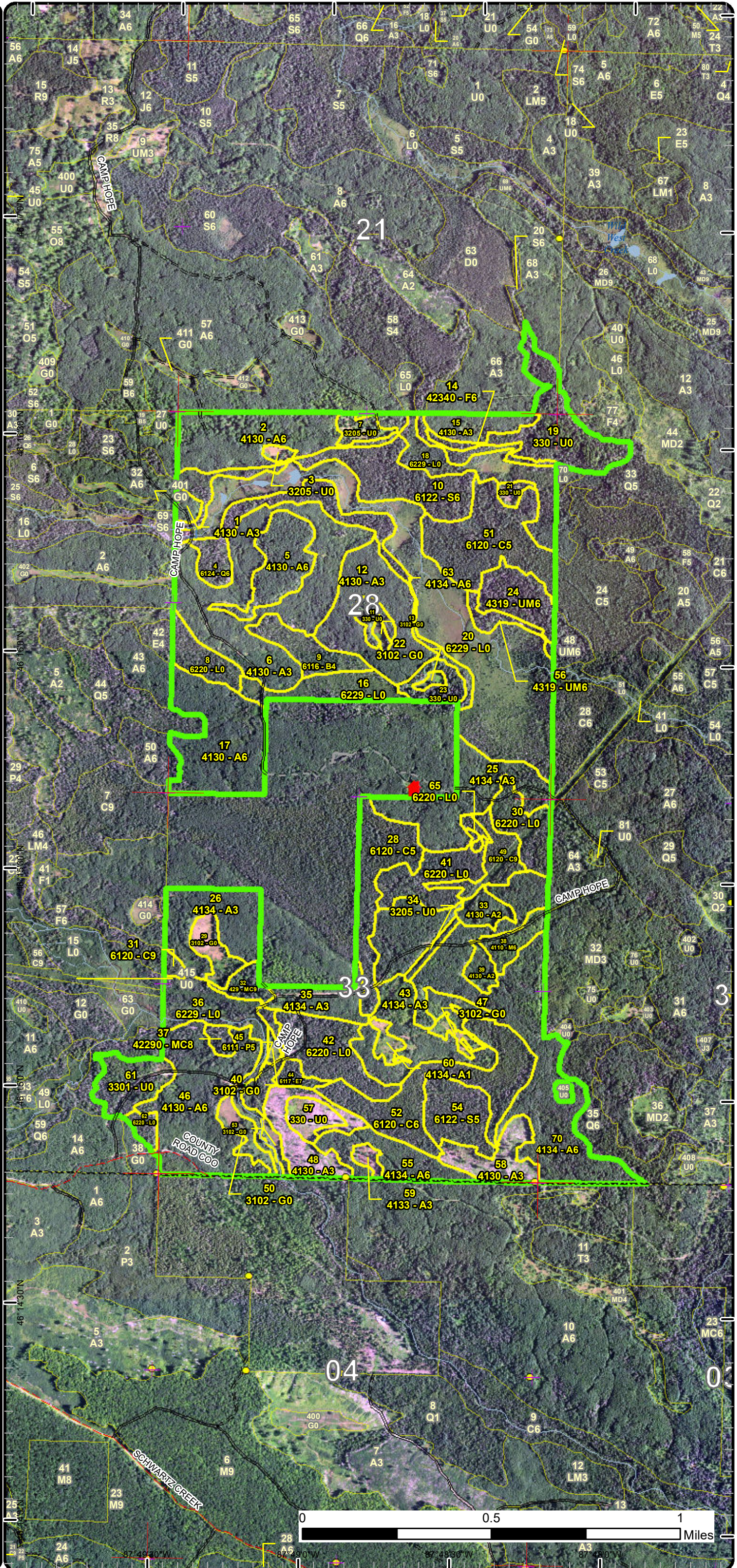


Special Conservation Areas

Compartment: 239
 T45N, R28W, Sec.21, 27, 28, 32, 33
 County: Marquette
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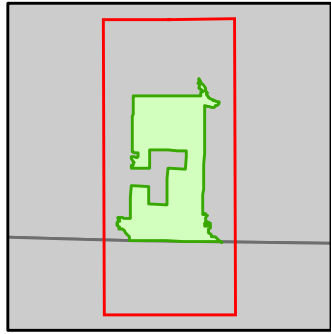


- Miris Corners
- + Remonumented Section Corners
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- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Bridges
- Culvert
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen Types
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub

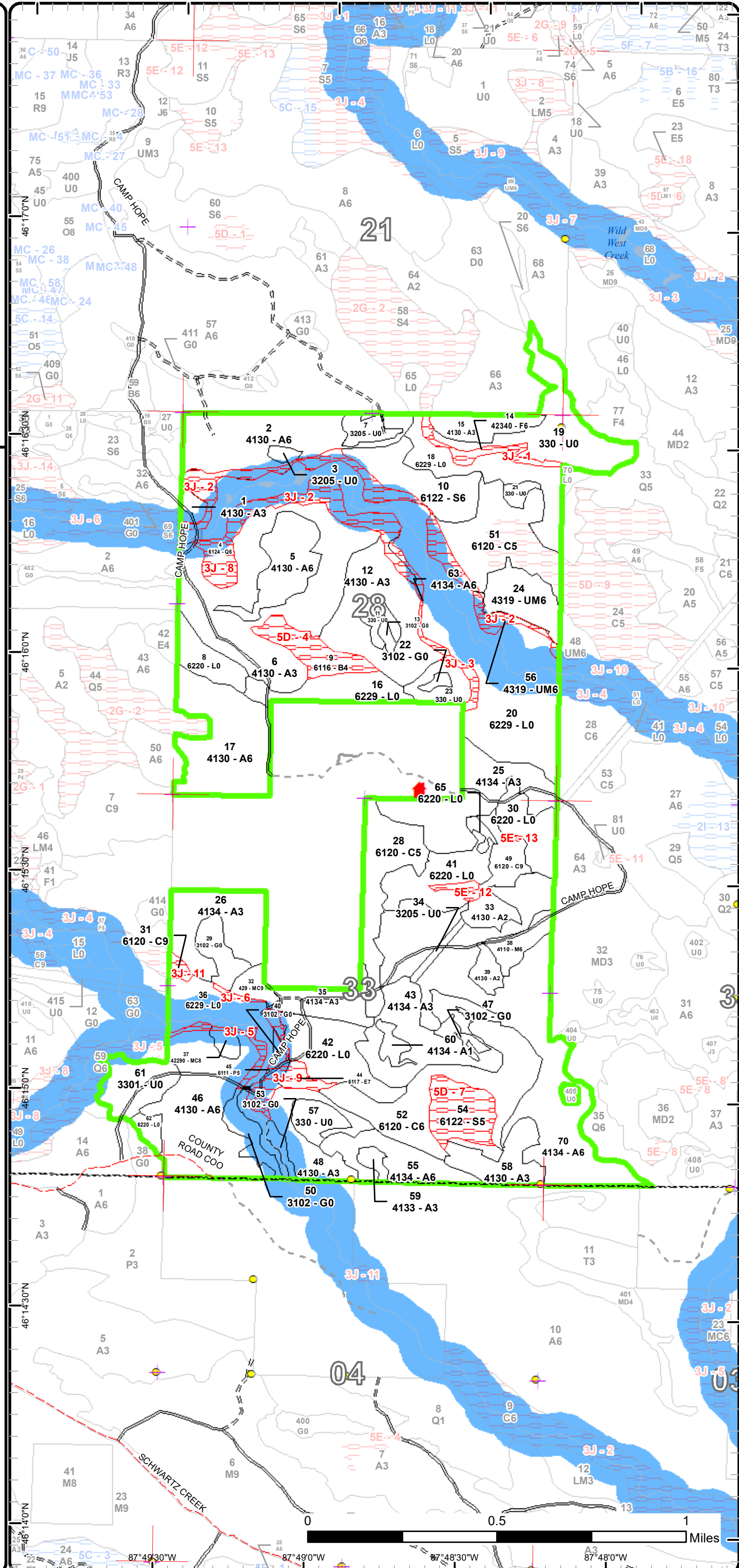


Stand Boundary Map

Compartment: 239
 T45N, R28W, Sec. 21, 27, 28, 32, 33
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 Unit: Gwinn
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 YOE: 2023
 Acres: 1167.9 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/13/2021
 Map Phase: Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Bridges
- Culvert
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 239
Total Compartment Acres: 1,168

Commercial Harvest - 201
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	100	0	0	0	0	0	0	0	0	100
Low-Density Trees	43	0	0	0	0	0	0	0	0	43
Lowland Shrub	11	0	0	0	0	0	0	0	0	11
Lowland Spruce/Fir	19	0	0	0	0	0	0	0	0	19
Northern Hardwood	0	8	0	0	0	0	0	0	0	8
Upland Mixed Forest	15	0	0	0	0	0	0	0	0	15
Upland Shrub	6	0	0	0	0	0	0	0	0	6
Total	193	8	0	0	0	0	0	0	0	201

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	201	23	0	0	0	59	0	1		284
Next Step	0	14	47	55	0	73	0	0		449
Total	201	37	47	55	0	73	0	1		733



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

2	32239002-Cut	2.8	4130 - Aspen	Poletimber Well	33	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees over 2 inches in diameter leaving only oak, cedar, white pine, and red pine. No area retention due to only cutting a small portion of the stand.</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, fir</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 /2022</p>											
5	32239005-Cut	20.8	4130 - Aspen	Poletimber Well	50	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut all trees over 2 inches at DBH leaving only red and white pine, oak and cedar. Leave a small area in the southwest tail of the stand for area retention.</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, spruce, fir</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 /2022</p>											
7	32239007-Cut	5.5	3205 - Mixed Upland Shrub	Nonstocked		Unspec ified	Harvest	Clearcut with Retention	320 - Upland Shrub		No
<p><u>Prescription</u> Cut all trees over 2 inches in diameter leaving only oak, cedar, white pine, and red pine. No area retention due to stand being managed for opening.</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> grass</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 /2022</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
10 32239010-Cut	19.4	6122 - Black Spruce	Poletimber Well	92	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees over 2 inches in diameter leaving only cedar, white pine, and red pine. Retention will be the river buffer left on the south edge of the stand it will include spruce and tamarack.</p> <p><u>Specs:</u></p> <p>In addition: Parts of this stand was purchased with State Game Funds. The retention along the river will provide good areas for gray jay and red crossbill.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> spruce, mixed conifer and mixed 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 /2022</p>										
38 32239038-Cut	7.8	4110 - Sugar Maple Association	Poletimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Cut using a selection system. Use the complete marker as a guide marking to 80 SF. In addition: Favor large paper birch for pileated woodpecker and any large fork crowned aspen and northern goshawk.</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 /2022</p>										
70 32239041-Cut	19.5	4134 - Aspen, Spruce/Fir	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees over 2 inches in diameter leaving only oak, cedar, white pine, and red pine. Area retention should be located on the west end of the stand adjacent to the cedar stand.</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, spruce, fir</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 /2022</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
70 32239041-Cutx	13.1	4134 - Aspen, Spruce/Fir	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees over 2 inches in diameter leaving only oak, cedar, white pine, and red pine. Area retention should be located on the north end of the stand adjacent to the cedar stand.</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</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 /2027</p>										
70 32239041-Cutxx	12.9	4134 - Aspen, Spruce/Fir	Poletimber Well	45	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees over 2 inches in diameter leaving only oak, cedar, white pine, and red pine. Area retention should be located on the south end of the stand to mitigate ay possible green up issues.</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</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 /2022</p>										
70 32239041-Cutxxx	25.2	4134 - Aspen, Spruce/Fir	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees over 2 inches in diameter leaving only oak, cedar, white pine, and red pine. Area retention should be located on the north end of the stand to mitigate ay possible green up issues.</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</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 /2027</p>										
57 32239057-Prep	7.3	330 - Low-Density Trees	Nonstocked	2020	Unspecified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Trench at 8 foot spacing.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; Monitoring, Artificial Regen(1yr); Planting, Initial Plant; Pesticide, Skidder - Release; Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr)</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 /2022</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
70	32239059-NF	0.7	4134 - Aspen, Spruce/Fir	Poletimber Well	45	81-110	NonForestMgt	Mowing	3102 - Grass		No
<u>Prescription</u> Maintain Old Hunter walking trail per WLD spec <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Grass <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2012											
61	32239061-Prep	15.6	3301 - Low Density Deciduous Trees	Nonstocked	0	Unspecified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Regen has failed trench and plant red pine. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release; Monitoring, Artificial <u>Treatments:</u> Regen(3yr) <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 /2021											
62	32239062-Monitor	3.5	6220 - Alder/willow	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	612 - Lowland Coniferous Forest	Even-Aged	No
<u>Prescription</u> Count regen in lowland inclusion <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Lowland Conifer, lowland hardwood <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024											
70	32239070-6-New	5.6	4134 - Aspen, Spruce/Fir	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Cut all trees over 2 inches in diameter leaving only oak, cedar, white pine, and red pine. Area retention should be located on the west end of the stand. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022											



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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Approved Treatments:

8	32239008-Cut	11.0	6220 - Alder/willow	Nonstocked	0	Unspecified	Harvest	Clearcut with Retention	6139 - Mixed Lowland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut this stand retaining 3-10% of the canopy. Trees retained should include a mix of the species present and are to be scattered throughout the stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mixed lowland and conifer</p> <p><u>Other Comment:</u> This is a lower site and should be harvested during the winter months. Old next step comments: Acceptable regeneration species include birch, aspen, fir, spruce, cedar and balm.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2013</p>											
11	32239011-Cut	3.5	330 - Low-Density Trees	Nonstocked	0	Unspecified	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut this stand reserving scattered mature aspen and some pole size spruce-fir.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, mixed hardwood</p> <p><u>Other Comment:</u> Retention is a small patch of 3-5% of the stand area</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 5 /16/2016</p>											
19	32239019.37_Cut	13.8	330 - Low-Density Trees	Nonstocked	0	Unspecified	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees except red pine, white pine and oak if present. Retention should be left along lowland type to the south.</p> <p><u>Next Step Treatments:</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Monitoring, Artificial Regen(1yr); Planting, Initial Plant; Pesticide, Skidder - Release; Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> aspen, fir, spruce, and mixed hardwood</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 4 /22/2020</p>											
19	32239019.38_Cut	10.2	330 - Low-Density Trees	Nonstocked	0	Unspecified	Harvest	Clearcut	42330 - Upland Fir	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut stand, retention will be a buffer on adjacent lowland and around a sensitive area within the stand. leave any white pine, red pine and oak if present.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory); Planting, Unfurrowed</p> <p><u>Acceptable Regen:</u> spruce, fir, aspen, mixed hardwood</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 7 /1 /2016</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
19	32239019.39_ Cut	6.1	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut stand leave all white pine, red pine, and oak. Retention will be a narrow strip separating a bog from the an aspen stand.</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, spruce, fir, and mixed 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> 7 /1 /2016</p>											
23	32239023trt- Cut	9.1	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Clearcut this stand harvesting all trees greater than 2-iches dbh. Retain scattered mature aspen and pole size spruce around the edge of the</p> <p><u>Specs:</u> opening.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, mixed hardwood, mixed softwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Leave a corridor varying in width from 50-100 ft. along the east edge of the stand to provide a wildlife corridor. Old next step comments:</p> <p><u>Comment:</u> Acceptable regeneration includes apsen, balm, spruce and fir.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>											
24	32239024trt- Cut	14.9	4319 - Mixed Upland Forest	Poletimber Well	93	81-110	Harvest	Clearcut with Retention	42340 - Upland Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Clearcut this stand cutting all trees greater than 2-inches dbh. Leave scattered trees along the western and southern edge of the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> If this stand is harvested, the adjacent stand (48) in Compartment 238 should be harvested as well. Access to this stand is extremely difficult</p> <p><u>Comment:</u> from a logging perspective. Stream crossings will be needed in just about every scenario. Old next step comments: Acceptable regeneration species include aspen, birch, spruce and fir.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2013</p>											
41	32239027- Monitor	21.5	6220 - Alder/willow	Nonstocked	2020	Unspec ified	Monitoring	Natural Regen (Intermediate)	6124 - Lowland Spruce-Fir	Uneven- Aged	No
<p><u>Prescription</u> Regen survey per the work instructions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> spruce with a combination of other species found on site</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 /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 32239030-Monitor	12.8	6220 - Alder/willow	Nonstocked	2020	Unspecified	Monitoring	Natural Regen (Intermediate)	6120 - Lowland Cedar	Uneven-Aged	No
<p><u>Prescription</u> Regen survey per the work instructions. <u>Specs:</u> <u>Next Step</u> Seeding, Machine Seed <u>Treatments:</u> <u>Acceptable</u> cedar with a mix of other species currently on site <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
42 32239042-Monitor	20.9	6220 - Alder/willow	Nonstocked	2020	Unspecified	Monitoring	Natural Regen (Intermediate)	6124 - Lowland Spruce-Fir	Uneven-Aged	No
<p><u>Prescription</u> Regen survey per the work instructions. <u>Specs:</u> <u>Next Step</u> Seeding, Machine Seed <u>Treatments:</u> <u>Acceptable</u> mix of lowland conifers <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 283.5

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 239
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		3J	5D	5E
558	550	0	7	Aspen	7		
120	97	0	23	Cedar	7	14	2
26	26	0	0	Herbaceous Openland	0		
70	70	0	0	Low-Density Trees	0		
7	0	0	7	Lowland Aspen/Balsam Poplar	7		
23	0	0	23	Lowland Conifers	23		
4	0	0	4	Lowland Deciduous	4		
240	238	0	2	Lowland Shrub	2		
55	24	0	31	Lowland Spruce/Fir	14	17	
3	3	0	0	Natural Mixed Pines	0		
8	8	0	0	Northern Hardwood			
13	0	0	13	Paper Birch		13	
6	5	0	1	Upland Conifers	1		
21	16	0	5	Upland Mixed Forest	5		
10	10	0	0	Upland Shrub			
6	0	0	6	Upland Spruce/Fir	6		
1,168	1,046		121	Total Forested Acres	76	44	2
	90%		10%	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	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Riparian corridor, buffer along Scarffe's Creek.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 239
Year of Entry: 2023

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5D: Unproductive Forest Land	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5D: Unproductive Forest Land	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 239
Year of Entry: 2023

11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	0	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 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	4130 - Aspen	Sapling Well	3.1	14		N/A	A few white birch stump sprouts have survived browsing. Stand was harvested in August/September 2004 by St. John Forest Products, Inc., TS#32-115-03-01 Camp Hope Rd. Sale. 44 birch seed trees were left.																																																											
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2	4130 - Aspen	Poletimber Well	39.0	33	51-80	N/A	Stand is an aspen stand with a patch of red oak on the west end. Aspen regen is very sparse where the oak were left, leatherwood is more present in these areas. Spruce and fir poles occur in pockets. Stand was harvested in 1986 by Minerick Logging, permit #10-83 Dodge Road Block. Residual oak trees were marked before the sale was cut, approx. 5/acre.																																																											
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4	6124 - Lowland Spruce-Fir	Poletimber Well	22.8	92	81-110	N/A	Buffer along Scarffe's Creek. The stand is predominantly lowland, some of it is upland along the aspen edge but this is a very small portion.																																																											
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6	4130 - Aspen	Sapling Well	69.6	14		N/A	Stand had been cut by St. John Forest Products, Inc., August-September 2004, TS#32-115-03-01, Camp Hope Rd. Sale.																																																											
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7	3205 - Mixed Upland Shrub	Nonstocked	5.5		Unspecified	Managed Opening																																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
8	6220 - Alder/willow	Nonstocked	11.0	0	Unspecified	611 - Lowland Deciduous Forest	Stand harvested in the winter of 2021 under sale number 116-16 Camp Hope combo. Holli Forest products cut sale in short winter little soil disturbance noted during harvest.																																															
9	6116 - Lowland Birch	Poletimber Poor	13.2	86	1-50	N/A	Stand is composed of white birch, aspen and balm, some black ash, and scattered balsam and black spruce. Very low volume stand is not manageable currently																																															
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10	6122 - Black Spruce	Poletimber Well	36.5	92	81-110	N/A	Stand is a mix of tamarack, black spruce, and pockets of cedar. There are a few high spots in this stand as well that are decadent white birch and balsam fir. Several rock outcrops or very large boulders rising 5-10 feet are also in this stand.																																															
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12	4130 - Aspen	Sapling Well	35.9	24		N/A	Stand was harvested in August of 1994 by Charlie Dillion, permit #4-93. All cherry, oak, and cedar were left as well as those spruce having less than 4 sticks.																																															
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13	3102 - Grass	Nonstocked	1.6			Managed Opening																																																
14	42340 - Upland Spruce/Fir	Poletimber Well	5.8	70	81-110	N/A	Stand was left as a buffer for beaver control from previous harvest. Cedar are present along the south edge of the stand before it becomes a lowland marsh. White birch and aspen are falling apart, stand is succeeding to spruce/fir.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
15	4130 - Aspen	Sapling Well	10.5	16		N/A	Stand was harvested in 2002 by Oro Logging Inc., TS#32-112-001-01 Camp Dodge Sale. A few scattered white pine, red oak and yellow birch present in stand as well.																																										
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16	6229 - Mixed lowland shrub	Nonstocked	15.8			No																																											
17	4130 - Aspen	Poletimber Well	41.8	32	51-80	N/A	Trees are 2-3 sticks. Stand had been harvested in January-February 1988 by Jim Carey, permit #4-86, as a spruce budworm salvage scale sale. Advanced regen was left during the sale operation. Currently spruce and balsam fir are minor components of this stand. The exist as scattered poles in the canopy and scattered saplings in the understory.																																										
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18	6229 - Mixed lowland shrub	Nonstocked	23.1			No																																											
19	330 - Low-Density Trees	Nonstocked	31.5	0	Unspecified	413 - Aspen	Stand Cut in 2018 by Holli Chipped. As of 2021 aspen regen is slow in coming. Planting pine may be the best option.																																										
20	6229 - Mixed lowland shrub	Nonstocked	102.8			No																																											
21	330 - Low-Density Trees	Nonstocked	2.6			No	OI notes indicated that this was an old logging camp site. I checked it out and there is evidence of old building sites here.																																										
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24	4319 - Mixed Upland Forest	Poletimber Well	15.9	93	81-110	N/A	Stand is part of a timber sale in adjacent compartment.																																																	
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25	4134 - Aspen, Spruce/Fir	Sapling Well	34.2	26		N/A	Was commercially cut in 1993 by Charlie Dillon, permit #4-93, "Wild West Road" sale. Spruce were not cut in this stand. Also, all oak, cherry, and cedar were left uncut.																																																	
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26	4134 - Aspen, Spruce/Fir	Sapling Well	26.5	25		N/A	The spruce and fir in this stand are predominantly in patches with some occurring in the undertory. There are a few sparse areas as well on the southwest edge. Original stand was harvested in the fall of 1993 by Charlie Dillon, permit #4-93. All red and white pine were left as well as spruce less than 4-sticks tall.																																																	
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28	6120 - Lowland Cedar	Poletimber Medium	26.3	108	51-80	N/A	Stand is predominantly cedar, especially in the north. As you venture south it becomes more mixed.																																																	
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29	3102 - Grass	Nonstocked	8.7			Managed Opening																																																		
30	6220 - Alder/willow	Nonstocked	14.4	2020	Unspecified	612 - Lowland Coniferous Forest	Stand was cut in the winter of 2018. Yukon Cornelius. TS# 112-14. Cedar was left within the stand.																																																	
31	6120 - Lowland Cedar	Sawtimber Well	1.9	110	111-140	N/A	This stand is a transition zone between the upland aspen and the lowland brush. Cedar is in good shape, but the balm and aspen are falling apart.																																																	
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32	429 - Mixed Upland Conifers	Sawtimber Well	5.6	92	111-140	N/A	Stand is predominantly red pine with some large white pine sawlog trees scattered throughout. There are also a fair amount of red and white pine poles/small sawlogs in the stand as well creating a two age stand. Some white birch and aspen are present as well.																																																	
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33	4130 - Aspen	Sapling Medium	6.4	15	Immature	N/A	Stand harvested in July 2004 by St. John Forest Products, Inc. TS#32-116-03-01, Flat Rock Bridge Sale. There is quite a bit of raspberry in this stand along with some scattered cherry and balsam. Some bare patches exist as well, presumably where white birch was present before. Old inventory had it listed as an A4 stand. There is a small patch of cedar in the middle of the stand as well. It appears that this was part of the lowland conifer stand that is across the old ELF ROW and now is an isolated island.																																																	
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34	3205 - Mixed Upland Shrub	Nonstocked	2.5			No	Old ELF ROW.																																																	
35	4134 - Aspen, Spruce/Fir	Sapling Well	13.2	19		N/A	Pockets of spruce and balsam. A few red and white pine. Stand had been cut in July of 2004 by St. John Forest Products, Inc. TS#32-116-03-01, Flat Rock Bridge Sale. Oak, cherry, cedar, red and white pine were not to be cut.																																																	
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36	6229 - Mixed lowland shrub	Nonstocked	23.4			No	Flat Rock Creek runs through this stand.																																																	
37	42290 - Natural Mixed Pine	Sawtimber Medium	3.1	110	81-110	N/A	Part of this stand was cut under permit #4-86 by Jim Carey. Only pine with a 20-inch dbh or larger were cut. The stand is now a mix of large red and white pine sawlogs, red and white pine poles, and heavy to black and white spruce in the understory. Red pine are regenerating near the edges along the road, white pine are mixed in the stand as are the spruce.																																																	
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38	4110 - Sugar Maple Association	Poletimber Well	7.8	95	111-140	N/A	Medium quality hardwood stand. Aspen is dying out, some pole aspen present from previous harvest (circa early 1970's).																																										
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White Spruce	Low	10 - 20 feet	Sapling																																														
Ironwood	Low	10 - 20 feet	Sapling																																														
39	4130 - Aspen	Sapling Medium	4.7	16	Immature	N/A	Was commercially cut in July 2004 by St. John Forest Products, Inc, permit #116-03-01, "Flat Rock Bridge Sale". Stand is patchy in nature where white birch had been present. Seed trees that were left are now dead and represent snags and downed debris.																																										
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40	3102 - Grass	Nonstocked	1.5			No																																											
41	6220 - Alder/willow	Nonstocked	19.7	2020	Unspecified	612 - Lowland Coniferous Forest	Stand was cut in the winter of 2018. Yukon Cornelius. TS# 112-14. Cedar was left within the stand.																																										
42	6220 - Alder/willow	Nonstocked	23.9	2020	Unspecified	612 - Lowland Coniferous Forest	Stand was cut in the winter of 2017-2018. Yukon Cornelius. TS# 112-14.																																										
43	4134 - Aspen, Spruce/Fir	Sapling Well	32.8	15		N/A	Was commercially cut in July 2004 by St. John Forest Products, Inc, permit #116-03-01, "Flat Rock Bridge Sale". All oak, cherry, cedar, red & white pine as well as 168 birch seed trees marked with green paint in Unit 2 (primarily this stand) were left. Also, 1 & 2 stick spruce were left. The majority of the birch seed trees have died and fallen over. Some snags are still standing. There appears to be some birch regeneration in the southwestern portion of this stand. This is also where most of the seed trees are still living.																																										
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44	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Poor	3.7	82	1-50	N/A	Small stand that is semi open. White birch, balm, scattered cedar, and spruce. A small creek that feeds into the Flat Rock Creek flows through this stand.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
45	6111 - Lowland Balsam Poplar	Poletimber Medium	6.7	47	51-80	N/A	Stand acts as a buffer along the Flat Rock Creek.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		2	Pole	8		Balsam Poplar	
Balsam Poplar		78	Pole	8	47	Tag Alder	
Balsam Fir		10	Pole	8		Avg. Height	
White Spruce		10	Pole	8		Size	
						5 - 10 feet	
						< 5 feet	
						Sapling	
						Tall Shrub	
46	4130 - Aspen	Poletimber Well	53.2	32	1-50	N/A	Stand was harvested during March-April 1988 by Jim Carey, permit #4-86, a spruce budworm salvage scale sale. Existing conifer regen present during the harvest was left. Note: Spoils from digging a sand trap were dumped in this stand, south of the road where a small opening exists on the western edge of the stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		90	Pole/Sapling	5	32	Balsam Fir	
Balsam Fir		5	Pole/Sapling	5		Density	
White Spruce		5	Pole/Sapling	5		Avg. Height	
						Size	
						5 - 10 feet	
						Sapling	
47	3102 - Grass	Nonstocked	3.3			No	what's left of an old wildlife opening also, post harvest some has filled in. the opening has also grown due to an area that did not come back.
48	4130 - Aspen	Sapling Well	17.9	5	Immature	N/A	Numerous stands existed within the previous inventory and were all cut in the summer of 2015. Yukon Cornelius. TS# 112-14.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		100	Sapling	1	5		
49	6120 - Lowland Cedar	Sawtimber Well	11.2	95	171-200	N/A	Very large cedar, almost pure. Balsam fir, black spruce, and white birch are present in the stand (birch mainly along the edge). Some aspen and red maple mixed in, in the north.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		2	Log/Pole	12		Balsam Fir	
Balsam Fir		5	Pole	6		Density	
Black Spruce		3	Pole	6		Avg. Height	
Northern White Cedar		90	Log/Pole	12	95	Size	
						5 - 10 feet	
						Sapling	
50	3102 - Grass	Nonstocked	6.8			Managed Opening	
51	6120 - Lowland Cedar	Poletimber Medium	39.0	92	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		2	Pole/Log	8		Black Spruce	
Balsam Fir		5	Pole	6		Density	
Black Spruce		10	Pole	7	92	Avg. Height	
Northern White Cedar		68	Pole	8	92	Size	
Tamarack		15	Pole/Log	10		5 - 10 feet	
						Sapling	
						< 5 feet	
						Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
52	6120 - Lowland Cedar	Poletimber Well	41.9	95	111-140	N/A	The stand is predominantly a cedar stand. Some patches along the edge have a heavier component of white birch and aspen. This stand appears to be a staging area for deer as they migrate south.																																					
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53	3102 - Grass	Nonstocked	2.6			No																																						
54	6122 - Black Spruce	Poletimber Medium	18.6	90	1-50	N/A	Semi-open stand that is black spruce and cedar with balsam and black spruce saplings/seedlings coming in.																																					
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55	4134 - Aspen, Spruce/Fir	Poletimber Well	18.5	46	81-110	N/A	Stand was commercially cut 1972 thru 1976 by Holli Forest Products under permit #19-70A, "Wild West Block".																																					
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56	4319 - Mixed Upland Forest	Poletimber Well	5.0	93	81-110	N/A	River buffer																																					
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57	330 - Low-Density Trees	Nonstocked	7.3	2020	Unspecified	4211 - Planted Red Pine	Numerous stands existed within the previous inventory and were all cut in the summer of 2015. Yukon Cornelius. TS# 112-14.																																					
58	4130 - Aspen	Sapling Well	15.7	5	Immature	N/A	Stand was cut in the fall of 2015. Yukon Cornelius. TS# 112-14																																					
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59	4133 - Aspen, Mixed Pine	Sapling Well	2.7	5	51-80	N/A	Stand was cut in the summer of 2015. Yukon Cornelius. TS# 112-14. Some of the larger diameter white pine was left as residual.																																					
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60	4134 - Aspen, Spruce/Fir	Sapling Poor	3.8	16	Immature	N/A	Was commercially cut in July 2004 by St. John Forest Products, Inc, permit #116-03-01, "Flat Rock Bridge Sale". All oak, cherry, cedar, red & white pine as well as 168 birch seed trees marked with green paint in Unit 2 (primarily this stand) were left. Also, 1 & 2 stick spruce were left. The majority of the birch seed trees have died and fallen over. Some snags are still standing. There appears to be some birch regeneration in the southwestern portion of this stand. This is also where most of the seed trees are still living.																																										
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61	3301 - Low Density Deciduous Trees	Nonstocked	15.5	0	Unspecified	4211 - Planted Red Pine	Stand was harvested in the fall of 2016. TS# 108-16, Toivo's Cookstove. Regeneration is poor over most of the stand. stand should be planted to red pine to insure reforestation.																																										
62	6220 - Alder/willow	Nonstocked	3.5	0	Unspecified	611 - Lowland Deciduous Forest	Stand cut by Carey FP under Toivo's Cookstove.																																										
63	4134 - Aspen, Spruce/Fir	Poletimber Well	3.9	60		N/A	River buffer																																										
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65	6220 - Alder/willow	Nonstocked	2.0	2020	Unspecified	612 - Lowland Coniferous Forest	Stand was cut in the winter of 2018. Yukon Cornelius. TS# 112-14. Cedar was left within the stand.																																										
70	4134 - Aspen, Spruce/Fir	Poletimber Well	103.4	45	81-110	N/A	Stand was commercially cut 1972 thru 1976 by Holli Forest Products under permit #19-70A, "Wild West Block". Spruce and fir density is variable throughout the stand. Some areas are very high others it's sparse.																																										
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