



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32220

Entry Year 2027

Acreage: 1,416

County: Marquette

Management Area: Suomi Till and Outwash Plain

Stand Examiner: Kyle Gould

Legal Description:

T46N, R28W, Sec.06, 07, and 08.

Identified Planning Goals:

Vegetative management in the Voelker Plains management area (MA) (Figure 4.34.1) 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 jack pine, aspen and lowland spruce/fir; maintaining the presence of minor cover types on the landscape; and maintaining non-forest vegetation types. Wildlife management objectives include addressing the habitat requirements identified for the following featured species: American woodcock, beaver, black bear and Kirtland's warbler. Management activities may be constrained by site conditions and the skewed age-class distributions. Balancing age classes and spruce budworm will be issues for this 10-year planning period.

Soil and topography:

Ranging from relatively level creek bottoms, swamp conifer, tag alder, and bog/marshlands, to upland which is only rolling to moderately hilly with an abundance of rock however. Rock outcropping is present also.

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

State ownership here is intermixed with relatively small private forest holdings, both corporate and non-industrial private owners and both recreational and residential. Development is very limited with a few seasonal cottages or hunting camps widely distributed. A power transmission line crosses the compartment east west. Production of forest products along with low key recreational activities such as hunting, fishing, trapping, and snowmobiling make up the land uses here.

Unique Natural Features:

The Black River and its tributaries comprise the unique natural features of this compartment.

Archeological, Historical, and Cultural Features:

None Identified.

Special Management Designations or Considerations:

None at this time.

Watershed and Fisheries Considerations:

This compartment contains the Black River which serves as a tributary to the West Branch Escanaba River. The Black River is a designated Type 1 trout stream less than 50-ft wide with a predicted mean July water temperature of 65.3°F (cold stream). A 300-ft buffer is recommended for the Black River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, Riparian Management Zone is recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is found within the Soumi Till and Outwash 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 underplanting 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 Soumi Till and Outwash Management Area: Blackburnian Warbler, Golden-winged Warbler, Kirtland's Warbler, Red Crossbill, Black-backed Woodpecker, Ruffed Grouse, American Marten, White-tailed Deer, Black Bear.

Mineral Resource and Development Concerns and/or Restrictions

Sections 6-9, T46N R28W, Marquette County No known potential exists for commercial oil & gas production in this part of the state. The closest known active sand/gravel operations are roughly three miles east. There may be some potential for production of minor amounts of sand & gravel within the compartment on the uplands. However, glacial sediments are thin in some areas, with granitic bedrock near the surface. Furthermore, the compartment may be too far from populated areas (commercial markets) for any aggregate resources to have significant commercial value. No past metallic mineral mining has occurred in this area, and there has been no known ground-based exploration. Intrusive dikes that appear to cross the northern portion of the compartment in the subsurface have some potential to host metallic minerals, but there has been minimal exploration of these structures in the region. Thus, potential for metallic and/or critical minerals beneath the compartment is relatively unknown but is considered low at this time. There is no current mineral leasing activity involving State-owned mineral rights in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

County Roads 478 (paved), CO, and CH provide access to and from US-41, M-95, and Co.Rd.581. Generally narrow, two track, dirt roads provide interior access within the compartment. An easement exists to ensure access via the S1/2SW of Sec 5 through corporate ownership, and work was done by Dept personnel from the Gwinn office to improve this road, including placement of a railroad car bridge across the Black River in the SWNW of Sec 8. Also an easement exists to cross the privately owned SWSW of Sec 8, and wood was trucked northward across a winter road at this site.

Survey Needs:

Corners needed in section 8 to delineate private land boundaries.

Recreational Facilities and Opportunities:

Dispersed recreation such as hunting, fishing, and trapping are popular in this area.

Fire Protection:

This compartment is dominated by aspen, fir and mixed pine fuel types. access to the north half of the compartment is fair. Access to the south west portion of the compartment will require specialized equipment due to a large bog.

Additional Compartment Information:

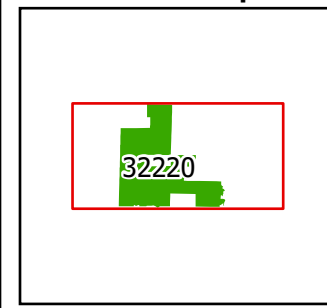
The following reports from the Inventory are attached:

- 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**

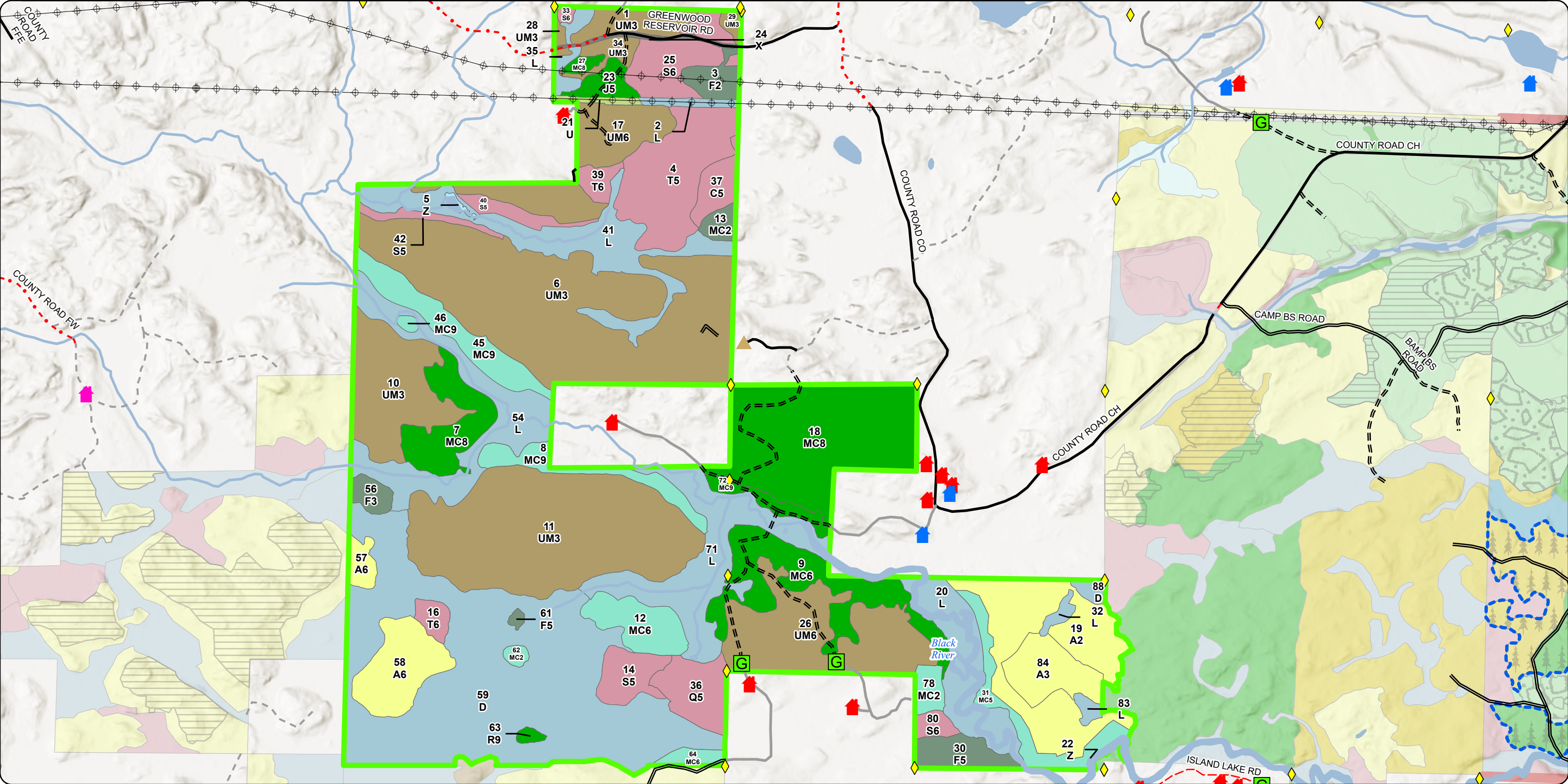
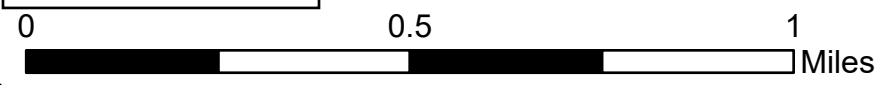
Cover Type & Treatments Map



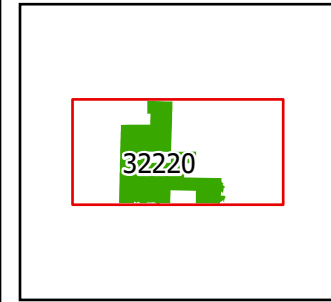
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 T46N R28W Sec 6, 7 & 8
 County: Marquette
 Unit: Gwinn
 Mgmt. Area: Suomi Till and Outwash Plain
 YOE: 2027
 Acres: 1,416 GIS Calculated
 Examiner: Kyle Gould
 Date Exported: 11/17/2025
 Map Phase: Post Review

- Survey Grade Corners
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Berm
- Gate
- DNR - Secondary Forest Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Electric
- Streams
- County - Dirt Road (Seasonal)
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions

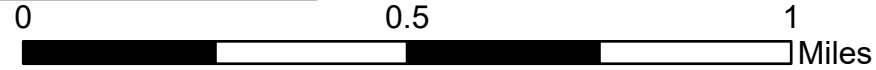
- 500 - Water
- 612 - Lowland Coniferous Forest
- 122 - Road/Parking Lot
- 320 - Upland Shrub
- 622 - Lowland Shrub
- Lakes and Rivers
- 413 - Aspen
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest



Stand Boundary Map



Compartment: 32220
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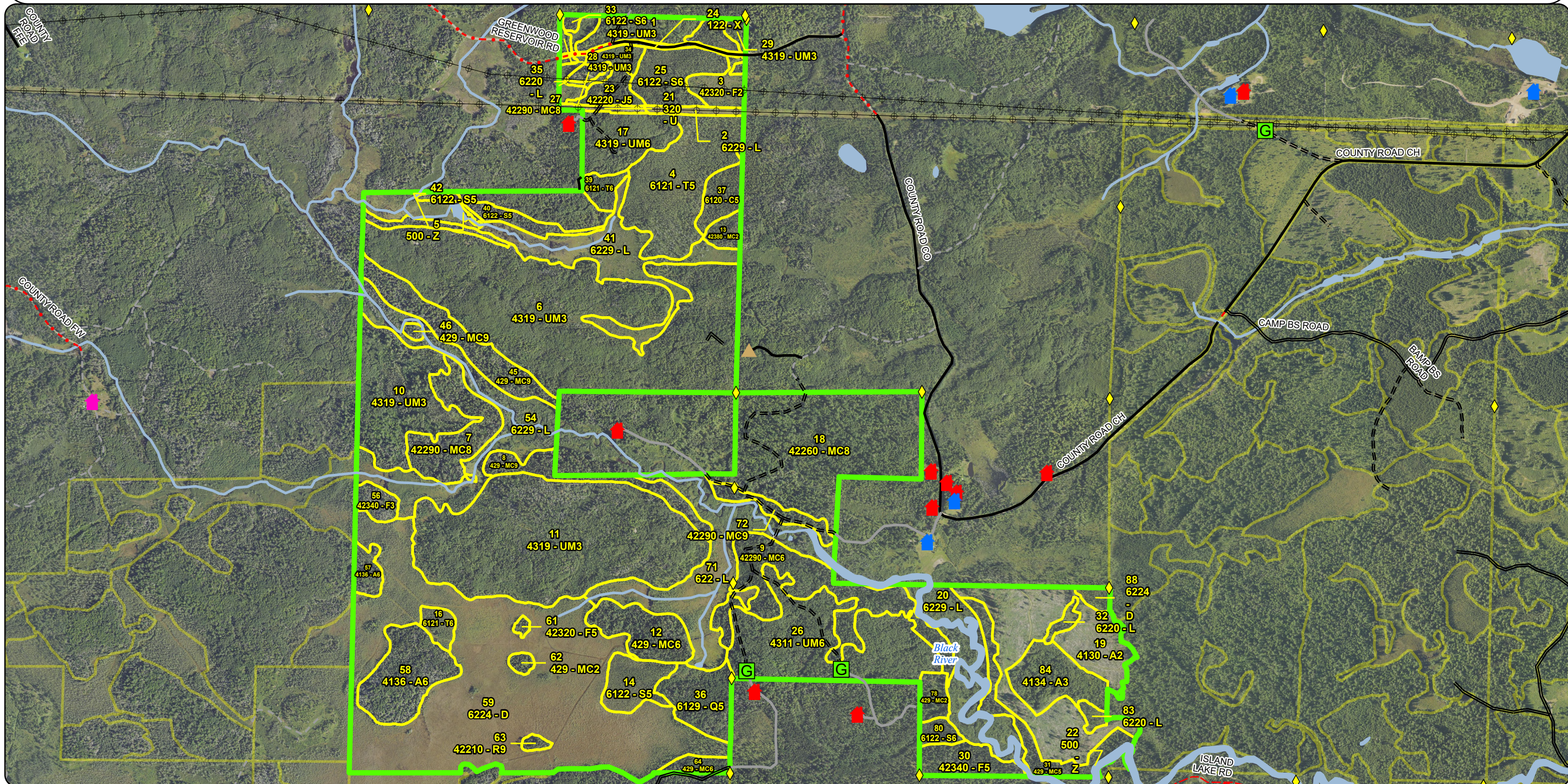


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- G Gate

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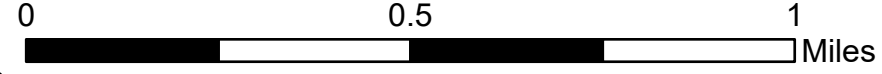
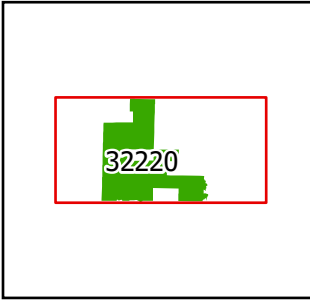
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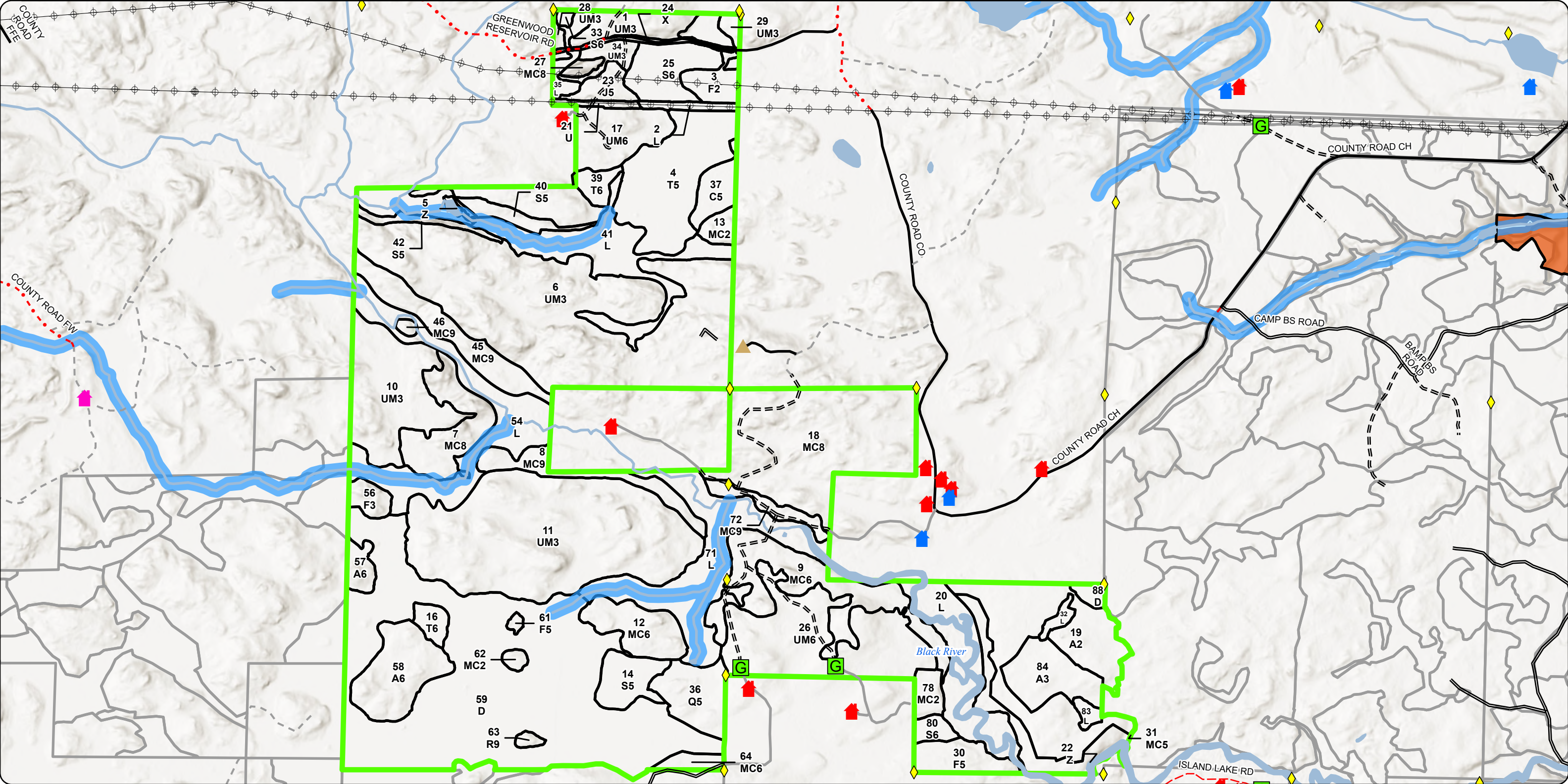


**Special Conservation Areas
& Site Conditions Map**

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- Electric
- Streams
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Other Habitat Area



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	61	0	20	0	33	0	0	0	0	0	0	0	0	0	0	0	0	113
Cedar	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Jack Pine	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Shrub	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200
Lowland Spruce/Fir	0	0	0	0	0	0	0	23	5	13	0	11	0	0	0	0	0	0	52
Natural Mixed Pines	0	0	0	0	42	0	0	0	0	0	0	0	0	0	0	0	0	120	162
Red Pine	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Tamarack	0	0	0	0	5	0	5	0	0	46	0	0	0	0	0	0	0	0	56
Treed Bog	206	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	206
Upland Conifers	0	0	6	5	0	25	0	0	0	15	0	17	0	0	0	0	0	25	92
Upland Mixed Forest	0	0	17	294	106	0	0	0	0	0	0	0	0	0	0	0	0	45	462
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Spruce/Fir	0	0	8	6	0	13	0	0	0	0	0	0	0	0	0	0	0	0	27
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	415	61	31	325	160	89	5	23	5	85	0	28	0	0	0	0	0	190	1414



Report 2 – Treatment Summary

Gwinn Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 220
Total Compartment Acres: 1,416

Commercial Harvest -
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0



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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

Total Treatment
Acreage Proposed: 0

Report 4 – Site Conditions

Gwinn Mgt. Unit
Kyle Gould: Examiner

Compartment: 220
Year of Entry: 2027



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		2F	3J	5D
113	113	0	0	Aspen			
9	9	0	0	Cedar			
7	7	0	0	Jack Pine			
18	18	0	0	Lowland Conifers			
200	194	0	6	Lowland Shrub			6
50	37	0	12	Lowland Spruce/Fir		12	
124	86	0	38	Natural Mixed Pines	2	36	
2	2	0	0	Red Pine			
56	56	0	0	Tamarack			
206	206	0	0	Treed Bog			
87	29	0	57	Upland Conifers		57	
426	417	0	10	Upland Mixed Forest		10	
2	3	0	0	Upland Shrub			
19	15	0	4	Upland Spruce/Fir		4	
4	4	0	0	Urban			
1	1	0	0	Water		0	
1,324	1,197		127	Total Forested Acres	2	119	6
	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)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
 Kyle Gould: Examiner

Compartment: 220
 Year of Entry: 2027



3	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	1	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	59	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: River buffer for the Black River and it's tributaries.							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
 Kyle Gould: Examiner

Compartment: 220
 Year of Entry: 2027



9	Unavailable	5D: Unproductive forest land	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Rock outcropping. Not many trees							

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																												
1	4319 - Mixed Upland Forest	Sapling Well	12.6	15	Immature	N/A	2024- 2-3" aspen with a mix of spruce and fir underneath. There are some large residual pine left in during last harvest. The west end is heavier to large pine and has a large rock outgrowing that faces the lowland area to the westStand harvested in winter/pre-breakup 2010 TS#32-108-07-01 Boulder Line Sale by Holli Forest Products. NE corner of Sec 6 is a new County remonumentation corner set in 2002, as is the N1/4 corner of Sec 6.																																																																												
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2	6229 - Mixed Lowland Shrub	None	3.5			No	Powerline opening. Lowland with tag alder and cattails.																																																																												
3	42320 - Upland Spruce	Sapling Medium	8.2	15		N/A	2024 - stand is filling in with spruce and tamarack. Most trees are 2-10 feet tall. The ft and will continue to fill in over time. Stand harvested in winter/pre-breakup 2010 TS#32-108-07-01 Boulder Line Sale by Holli Forest Products. Seed trees left, see timber sale report for total number left. Some windthrow present from 7/21/02 storm. Site is semi-high ground, not wet. Jim Carey cut the adjacent pvt land to the east in the last few yrs and very little regeneration is present yet.																																																																												
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4	6121 - Tamarack	Poletimber Medium	46.1	88	1-50	N/A	North and south ends are the largest diameter and count be treated. The central west portion is smaller diameter and looks stunted due to wetter ground conditions.																																																																												
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5	500 - Water	None	1.1			No	Medium sized flooding from a beaver dam. The dams is over 100yds wide. Water flows east to west.																																																																												
6	4319 - Mixed Upland Forest	Sapling Well	167.8	25	Immature	N/A	2025 - stand looks healthy. Some of the better quality aspen in the area. The stand does contain some lower areas where trees are sparse and tag alder is heavy. There are some rocky areas and rock outcroppings and rock walls within the stand that exceed 20 foot drops. Was commercially harvested in 1998 thru 2000 by Jim Carey of Sawyer Lake, permit #110-97-01, "Black River North Sale". All oak, cherry, cedar, & yellow birch was left. Only marked pine was cut. Subsequently, the stand was hard hit by the windstorm of 7/21/02 and we lost most of the residual pine. Aspen is dominant however, with a minor component of conifer. This stand is essentially a ridgetop paralleling the river.																																																																												
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7	42290 - Natural Mixed Pine	Sawtimber Medium	24.6	88	1-50	N/A	2025 - Following the salvage harvests, there is some maple and aspen regeneration in the understory. Most the regeneration is less than 20 feet tall and not merchantable. Had a commercial salvage cut in Jan/Feb 2003 which was brought about by severe windthrow from the 7/21/2002 windstorm. Jim Carey was salvaging his own timber in Sec 1 of T46N, R29 W at this time, being adjacent to this State damaged timber on the west side, and also controlling access. Thus, permit #133-03-02, "Black River West Salvage" was issued to salvage all trees which were broken or uprooted by the storm. Field check in May 2005 showed that most of the damage and salvage was on the west end of the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		5	Pole/Log	8		Balsam Fir		Medium	10 - 20 feet	10 - 20 feet	
Paper Birch		2	Log/Pole	10		White Pine		Low	10 - 20 feet	10 - 20 feet	
Balsam Fir		10	Pole	8		Quaking Aspen		Medium	10 - 20 feet	10 - 20 feet	
Black Spruce		12	Pole/Log	8		Black Spruce		Low	10 - 20 feet	10 - 20 feet	
Tamarack		10	Pole/Log	8		Bigtooth Aspen		Low	10 - 20 feet	10 - 20 feet	
White Pine		38	Log/Pole/XLog	16	88	Tag Alder		Low	5 - 10 feet	5 - 10 feet	
Red Pine		23	Log/Pole/XLog	16		Hazelnut (Beaked)		Low	10 - 20 feet	10 - 20 feet	

8	429 - Mixed Upland Conifers	Sawtimber Well	14.7	86	51-80	N/A	This was spilt off of the stand to the south that was harvested. This piece was the river buffer. Mixed conifer stand with some very rocky areas.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		15	Pole/Log	9							
Paper Birch		15	Pole/Log	9							
Bigtooth Aspen		7	Pole/Log	8							
Balsam Fir		8	Pole	8							
White Spruce		25	Pole/Log	9	86						
Black Spruce		6	Pole	8							
Tamarack		5	Pole	7							
White Pine		4	Log/Pole	10							
Red Pine		15	Pole/Log	9							

9	42290 - Natural Mixed Pine	Poletimber Well	42.2	35	51-80	N/A	Mixed stand of mostly conifer. There is larger pine in the overstory with a mix of mostly spruce and fir in the understory. Much of the spruce and fir was killed by spruce budworm. The stand borders the wetlands containing the black river. The stand needs some time to grow before a harvest.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		5		7		Balsam Fir		Low	5 - 10 feet	5 - 10 feet	
Quaking Aspen		7		6							
Balsam Fir		10	Sapling/Pole	4							
White Spruce		10	Sapling/Pole	4							
White Pine		13	XLog/Log	18	95						
Red Pine		15	Log/Pole/XLog	13	95						
Jack Pine		40	Sapling/Pole	4	35						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
10	4319 - Mixed Upland Forest	Sapling Well	44.9	21	1-50	N/A	Patchy pine stand and the areas that has significant blowdown have regenerated to aspen with some conifer mixed in. A couple small areas are dominated by spruce and lowland species. Had a commercial salvage cut in Jan/Feb 2003 which was brought about by severe windthrow from the 7/21/2002 windstorm. Jim Carey was salvaging his own timber in Sec 1 of T46N, R29 W at this time, being adjacent to this State damaged timber on the west side, and also controlling access. Thus, permit #133-03-02, "Black River West Salvage" was issued to salvage all trees which were broken or uprooted by the storm. Field check in May 2005 showed that most of the damage and salvage was on the west end of the stand. Pine, fir, and spruce regeneration is starting to show up.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Sapling	1		Tag Alder		
Paper Birch		5	Sapling	1		Hazelnut (Beaked)		
Quaking Aspen		20	Sapling	1	21	Density		
Bigtooth Aspen		10	Sapling	1		Avg. Height		
Balsam Fir		20	Sapling	1		Size		
White Spruce		5	Sapling	1		5 - 10 feet		
Black Spruce		5	Sapling	1		5 - 10 feet		
Tamarack		5	Sapling	1				
White Pine		5	Sapling	1				
White Pine		10	XLog	18				
Red Pine		5	XLog	18				
11	4319 - Mixed Upland Forest	Sapling Well	126.4	25	Immature	N/A	2025 - mixed upland stand with some lower areas. Mostly aspen with a broad mix of other species. Some moose browse on red maple whips. Stand looks healthy and very little budworm kill. Harvested by Holli Forest Products, Inc., permit #109-97-01, "Black River South Sale". Access was from the east and south utilizing winter frozen roads across the treed bog. At least two winters were spent cutting this sale, maybe three. This stand was subsequently hard hit with the 7/21/02 windstorm and we lost most of the pine residual stand, and it was impractical to salvage due to the winter access needed. Currently we have a fully stocked stand with all species combined. Some portions are aspen dominant & some spruce/fir dominant, and a lot of mixed acres.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		30	Sapling	3	25	Tag Alder		
Bigtooth Aspen		12	Sapling	2		Hazelnut (Beaked)		
Balsam Fir		15	Sapling	3		Density		
White Spruce		10	Sapling	3		Avg. Height		
Black Spruce		5	Sapling	3		Size		
Tamarack		5	Sapling	3		5 - 10 feet		
White Pine		5	Log/Pole	12		5 - 10 feet		
Red Pine		5	Log/Pole	12				
Jack Pine		10	Sapling	3				
Black Cherry		3	Sapling	3				
12	429 - Mixed Upland Conifers	Poletimber Well	18.3	45	1-50	N/A		2025 - stand is small to medium sized poles timber. Aspen is the most common and a mix of other conifer species. Budworm has damaged the fir within the stand. All the rest of the trees look healthy and will benefit from waiting an entry period to treat. Was commercially cut in Jan-March 1980 by Holli Forest Products, Inc., permit #2/80. This stand had been decimated by spruce bud worm at this time and Holli was in the process of freezing a large bog winter road system going right past this stand to reach a large State timber sale to the west, thus it was logical to cut this stand at the same time. All merchantable pulpwood was cut except for red & white pine which were marked.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		30	Pole	6	45	Tag Alder		
Bigtooth Aspen		10	Sapling/Pole	4		Hazelnut (Beaked)		
Balsam Fir		5	Pole	5		Density		
White Spruce		20	Pole	7		Avg. Height		
Black Spruce		15	Pole	5		Size		
Tamarack		5	Pole	5		5 - 10 feet		
White Pine		5	Log	14		5 - 10 feet		
Red Pine		5	Log	13		5 - 10 feet		
Jack Pine		5	Pole	6				



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13	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Medium	4.5	27	Immature	N/A	2025 - most of the fir and some of the spruce was killed by budworm. The stand still had moderate stocking and some small trees are filling in the gaps. This area is a rocky knob dropping into an adjacent low area. This stand was cut in 1998-200 by Carey Logging (sale # 32-110-97-01 Black river north sale).																																																													
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14	6122 - Black Spruce	Poletimber Medium	13.0	83	51-80	N/A	2025 - stand could be treated but it may be better to wait 10 years when there is more to cut. A frozen winter road was used on the north side of this stand both around 1974-80 and again in 1999-2000. Stand is mostly black spruce/tamarack. Sparse on fringes.																																																													
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16	6121 - Tamarack	Poletimber Well	4.8	57	Unspecified	N/A	2025 - stand of smaller, pole sized tamarack and spruce. Looks healthy. Area of better site index tamarack and spruce then surrounding bog manage with adjacent island in the future.																																																													
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18	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	85.9	95	51-80	N/A	2024 - after the harvest in 2008, the stand js coming back to mostly red maple in the understory. There is a mix of other species int he understory as well. Stand was badly damaged (esp. the pine) and salvaged in winter of 2002-03 (TS#128-02-01- Minerick Logging, Inc., a scale sale) as a result of the windstorm of 7/21\2002. Van Riper State Park work crew cut marked pine here during the winters of 1984-86 for sawing into picnic table boards, etc., permits # 15-84-02, #19-85-02, & #01-86-02. We wish to manage this stand for pine, but currently, red maple is the predominant species. Stand cut by Triest Forest Products in the spring of 2008, #32-109-07-01.																																																										
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19	4130 - Aspen	Sapling Medium	60.9	4		N/A	cut by JM longyear under black river fir 32-012-20.																																																										
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20	6229 - Mixed Lowland Shrub	None	35.0			No	Tag alder and other shrubs at high density. Black river is the middle of the stand.																																																										
21	320 - Upland Shrub	None	2.5			No	Powerline opening. High ground and rocky.																																																										
22	500 - Water	None	1.2			No	Black River																																																										
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23	42220 - Natural Jack Pine	Poletimber Medium	7.0	36	51-80	N/A	Mostly a jack pine stand with a mix of other species. Was commercially cut between Mar. 1988 & Sept. 1989 by Jim Carey Logging, permit #21-87-01, "Black River Block".																																																										
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24	122 - Road/Parking Lot	None	3.5			No	Road																																																										
25	6122 - Black Spruce	Poletimber Well	23.2	63	Unspecified	N/A	Stand is mostly 6-8" spruce with some tamarack mixed in. Patchy tag alder into the understory. An area in the middle of the stand has smaller timber. The west edge is a heavier strip of tamarack. OI Stand Year Origin was 1962																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26	4311 - Pine, Aspen Mix	Poletimber Well	61.6	35	51-80	N/A	Pole sized stand. Mixed upland species with some lower pockets. The older age of trees is about 20BA of large pine were left in the overstory during the last harvest and the understory is the younger age
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	3	
Paper Birch	3	Sapling	2	
Quaking Aspen	25	Pole	5	35
Bigtooth Aspen	15		5	
Balsam Fir	10		4	
White Spruce	10		4	
Black Spruce	2	Sapling	2	
White Pine	5	Log	14	95
Red Pine	10	Log	14	95
Jack Pine	15		4	35

27	42290 - Natural Mixed Pine	Sawtimber Medium	2.3	85	1-50	N/A	Large pine in the overstory and small conifer underneath. The north side is about a 40ft cliff. Stand situated on top of a rock outcropping. Was hit with blow down from the 7/21/02 windstorm, but a significant number of pine remain. Probably more valued for aesthetics than timber.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	7		10		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Paper Birch	3	Pole	8		White Spruce	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	5	Pole/Sapling	6		White Pine	Low	5 - 10 feet	5 - 10 feet
White Spruce	10	Pole/Sapling	6	25				
White Pine	50	Log/XLog	16	85				
Red Pine	25	Log	14					

28	4319 - Mixed Upland Forest	Sapling Well	1.9	15	Immature	N/A	2024 - north half on the stand was not cut. There is an area of mature black spruceStand harvested in winter/pre-breakup 2010 TS#32-108-07-01 Boulder Line Sale by Holli Forest Products. N1/4 corner of Sec 6 is a new County remonumentation corner set in 2002.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	6	Sapling	1	
Paper Birch	4	Sapling	1	
Quaking Aspen	35	Sapling	1	15
Balsam Fir	16	Sapling	1	
White Spruce	7	Sapling	1	
Black Spruce	20	Sapling/Pole	4	
White Pine	2	Sapling	1	
White Pine	4	XLog	18	
Red Pine	4	XLog	18	
Red Pine	2	Sapling	1	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
29	4319 - Mixed Upland Forest	Sapling Well	2.3	15	Immature	N/A	Stand harvested in winter/pre-breakup 2010 TS#32-108-07-01 Boulder Line Sale by Holli Forest Products. Considerable windthrow damage here from 7/21/02 storm. NE corner of Sec 6 is a new County remonumentation corner set in 2002. Private driveway leading to a camp southeast of the Sec corner crosses onto State slightly.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		25	Sapling	2	15			
Quaking Aspen		15	Sapling	2	15			
Bigtooth Aspen		10	Sapling	3				
Balsam Fir		13		3	15			
White Spruce		15	Sapling	2				
Black Spruce		8	Sapling	1				
White Pine		5	Sapling	1				
White Pine		3	XLog	18				
Red Pine		2	XLog	18				
Black Cherry		4	Sapling	1				
30	42340 - Upland Spruce/Fir	Poletimber Medium	12.3	40	1-50	N/A		2024 - most timber is small pole sized. There are some larger trees left after the salvage. Mix of mostly conifers and aspen. Was cut as a salvage Scale sale due to damage from the 7/21/2002 windstorm by Jim Carey Logging in late Fall of 2002, permit #102-03-02, "Black River Salvage". Jim was already cutting the adjacent private (James Richards) property to the south, thus he had access from the south. He cut only those trees that were broken or uprooted. Most of damage was to the oldest, largest trees, thus what is left are younger age class and we can manage this residual type in place, expecting to get some natural regeneration of existing species as a result of the cutting and soil disturbance.
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		5	Pole/Sap/Log	7				
Quaking Aspen		10		5	40			
Balsam Fir		30	Pole/Sap/Log	7	40			
White Spruce		30	Pole/Log/Sap	7	40			
White Pine		5	Log/Pole/XLog	14				
Red Pine		5	Log/Pole/Sap	14				
Jack Pine		15	Pole/Sap/Log	7				
Sub-Canopy Species		Density	Avg. Height	Size				
Balsam Fir		Medium	5 - 10 feet	5 - 10 feet				
White Spruce		Low	5 - 10 feet	5 - 10 feet				
31	429 - Mixed Upland Conifers	Poletimber Medium	17.3	105	1-50	N/A	2024- narrow strip of mostly large white pine and a mix of species underneath along the river. Was commercially cut in 1956-57 (permit #13-56A & #3-57) by Uno Kempainen (who lived just northwest of the sale where Loren Gray lives now).	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		5	Pole/Sapling	7				
Paper Birch		5	Pole	8				
Balsam Fir		15	Pole/Sapling	7	68			
White Spruce		10	Pole/Sapling	7	68			
Black Spruce		10	Pole/Sapling	7				
White Pine		50	XLog/Log	18	105			
Red Pine		5	XLog/Log	18				
Sub-Canopy Species		Density	Avg. Height	Size				
White Spruce		Medium	5 - 10 feet	5 - 10 feet				
White Pine		Low	5 - 10 feet	5 - 10 feet				
32	6220 - Alder/Willow	None	2.6			No	Lowland grass and shrubs with some trees on the edge	
33	6122 - Black Spruce	Poletimber Well	1.2	75	81-110	N/A	This stand was part of stand 28. It was not treated during the timber sale due to being a lowland pocket of black spruce. The spruce is healthy and large pole size.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		5	Pole	7	15			
Balsam Fir		10	Pole	8				
Black Spruce		85	Pole	8	75			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
34	4319 - Mixed Upland Forest	Sapling Well	5.9	36	1-50	N/A	2024 - pole sized stand. Mostly aspen but a mix of other species present as well. There is a small area of tamarack in the NW corner of the stand. Was commercially cut between Mar. 1988 & Sept. 1989 by Jim Carey Logging, permit #21-87-01, "Black River Block". All cherry, 1 & 2 stick spruce & fir was left, as well as some birch/maple marked with green paint for aesthetics along Co. Rd. 478. Probably were no oak present. Some aspen in north & west sides of stand, and also some tamarack near swamp edge on east.																																																							
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35	6220 - Alder/Willow	None	5.7			No	Draining the middle runs south																																																							
36	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	18.3	45	51-80	N/A	2025- pole sized stand. Tamarack and spruce mostly with an upland area in the middle of the stand. Was commercially cut in 1979-80 by Holli Forest Products, Inc., permit #12/77A, "Fawn's Foot Block". All merchantable pulpwood was cut except for pine which was marked.																																																							
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37	6120 - Lowland Cedar	Poletimber Medium	9.2	88	1-50	N/A	Stand is about half cedar and half tamarack. The cedar trees are quite short and there is a layer of cedar regeneration in the understory that is not present in stand 4.																																																							
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39	6121 - Tamarack	Poletimber Well	5.1	36	1-50	N/A																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
40	6122 - Black Spruce	Poletimber Medium	6.6	100	51-80	N/A	Narrow river buffer on small tributary of the Black River. This is an important buffer separating an aspen stand from the riparian area adjacent to the the creek.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		2	Log/Pole	10		White Pine		
Black Spruce		80	Pole	7	100	Black Spruce		
Tamarack		3	Pole	7		Tamarack		
White Pine		15	Log/XLog	14		Red Maple		
41	6229 - Mixed Lowland Shrub	None	48.8			No	Low density trees with marsh grass and tag alder. The stream starts from the east and works west to the black river. There are several large beaver dams that have created floodings before the stream reaches the black river.	
Sub-Canopy Species		Density	Avg. Height	Size				
Tag Alder		Low	5 - 10 feet	5 - 10 feet				
42	6122 - Black Spruce	Poletimber Medium	4.7	100	51-80	N/A	This stand is the buffer between aspen and the lowland stand. The stand has several rock bluffs and has a north aspect. The trees look healthy except for the fir that has been killed by budworm.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		3	Log	12		Black Spruce		
Black Spruce		65	Pole	7	100	Tag Alder		
Tamarack		7	Pole	7				
White Pine		25	Log/XLog	16				
45	429 - Mixed Upland Conifers	Sawtimber Well	23.8	88	81-110	N/A	2025 - mostly upland stand with some lower spots with tag alder. Trees are in tough shape from budworm and wind damage. Most fir and some spruce is dead. The understory has a good amount of live fir that will take over in the open areas.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		25	Log/Pole	10		Balsam Fir		
Paper Birch		3	Log/Pole	10		White Pine		
Balsam Fir		10	Pole	8	45			
Black Spruce		15	Pole	8				
Tamarack		2	Pole	8				
White Pine		30	XLog/Log/Pole	18	88			
Red Pine		15	XLog/Log/Pole	18				
46	429 - Mixed Upland Conifers	Sawtimber Well	1.2	88	51-80	N/A	A small high spot along the river surrounded by lowland. Looks similar to stand 7 and 45 nearby.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Pole	8		White Pine		
Paper Birch		5	Log/Pole	10		Black Spruce		
Quaking Aspen		10	Pole	8				
Bigtooth Aspen		5	Log/Pole	10				
Balsam Fir		10	Pole/Log	8				
Black Spruce		15	Pole/Log/Sap	8				
White Pine		30	XLog/Log	18	88			
Red Pine		15	Log/XLog	17				
54	6229 - Mixed Lowland Shrub	None	47.2			No	Lowland stand of tag alder with tributaries to and including the black river. Low density conifer trees in some places.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																										
56	42340 - Upland Spruce/Fir	Sapling Well	5.6	25	Immature	N/A	2025 - stand is nearing pole size. There is a fair amount of budworm damage but it is filling back in where it is sparse. Some moose browse present on hardwood species. Was commercially harvested in Jan-Mar 2000 as part of Holli Forest Products, Inc, permit #9-97-01, "Black River South Sale"																																																																																										
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57	4136 - Aspen, Mixed Conifer	Poletimber Well	5.6	45	1-50	N/A	Was commercially cut in winter of 1980 by Holli Forest Products, Inc., permit #10-80. Or possibly this was included in Holli's permit #2/76A, "Island Sale", which wasn't completed till 3/31/80 and included the adjacent high ground west of this stand. Permit #10-80 was a negotiated sale whereas #2/76A was bid I believe. The same road system of frozen ice roads were used for both sales. Four access points were used for this road system over the course of 6 yrs or so. The northwest access was through Reino Nyback's in the NW corner of Sec 12, T46N, R29W which leads to CoRd FW. The southwest access was through Sec 13, T46N, R29W through the three corporate forties on the north side of Sec 13 which will lead southwesterly past Ozzie Altabello's camp to reach CoRd FF also called the Perch Lake Road. The east access was through Sec 8, T46N, R28W and across the Black River on the RR car bridge to exit at Loren Gray's driveway to Co.Rd.CO or CH. And the south access was through Sec 18, T46N, R28W near stand #63 (small island of red pine) which leads to the Tanglefoot Lake Road which leads to CoRd 581 by the AmVets.																																																																																										
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58	4136 - Aspen, Mixed Conifer	Poletimber Well	26.9	45	1-50	N/A	2025 - stand will likely be ready for harvest next entry. The north end of the stand is mostly aspen and jack pine. The south end is heavier to red maple. The middle is lowland with spruce and tamarack. Most trees in the stand are merchantable but will benefit from another 10 years of growth. The fir in the stand is mostly dead from budworm. Was commercially cut in Jan-March 1980 by Holli Forest Products, Inc., permit #10/80. A salvage of spruce budworm damage sale. All merchantable trees were cut except for pine which were marked. Access by frozen winter road system.																																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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59	6224 - Treed Bog	None	203.4			No	Bog with extensive winter road system present as well as old ELF line allowing access to all islands. Four access points were used for this road system over the course of 6 yrs or so. The northwest access is through private lands in the NW corner of Sec 12, T46N, R29W which leads to CoRd FW. The southwest access was through Sec 13, T46N, R29W through the three corporate forties on the north side of Sec 13 which will lead southwesterly through private lands camp to reach CoRd FF also called the Perch Lake Road. The east access was through Sec 8, T46N, R28W and across the Black River on the RR car bridge to Co.Rd.CO or CH. And the south access was through Sec 18, T46N, R28W near stand #63 (small island of red pine) which leads to the Tanglefoot Lake Road which leads to CoRd 581 by the AmVets.
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61	42320 - Upland Spruce	Poletimber Medium	1.0	45	1-50	N/A	Was commercially cut in Jan-March 1980 by Holli Forest Products, Inc., permit #10/80. All merchantable trees were cut except for pine which were marked. Access by frozen winter road system.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	3	Pole	6		Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen	2	Pole	5		Hazelnut (Beaked)	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	10	Pole/Sapling	5		Black Spruce	Low	5 - 10 feet	5 - 10 feet
Black Spruce	75	Pole	6	45				
Tamarack	5	Pole	5					
White Pine	3	Pole	7					
Red Pine	2	Pole	6					

62	429 - Mixed Upland Conifers	Sapling Medium	1.9	45	1-50	N/A	Was commercially cut in Jan-March 1980 by Holli Forest Products, Inc., permit #10/80. All merchantable trees were cut except for pine which were marked. Access by frozen winter road system.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Sapling/Pole	4		Red Pine	Trace	5 - 10 feet	5 - 10 feet
Black Spruce	25	Pole	6	45	Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Tamarack	5	Sapling/Pole	4		Tamarack	Low	5 - 10 feet	5 - 10 feet
White Pine	7	Log	16					
Red Pine	25	Pole/Sap/Log	8					
Douglas Fir	33	Pole/Sap/Log	7	45				

63	42210 - Natural Red Pine	Sawtimber Well	1.5	88	81-110	N/A	2025 - areas of thick thick spruce and balsam fir in the understory. Red pine regeneration where the understory is open. Tiny island of high ground in treed bog, sandy soil - natural red pine. System of frozen winter roads went right by this island.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log	14	88	Balsam Fir	High	10 - 20 feet	10 - 20 feet
					White Spruce	High	10 - 20 feet	10 - 20 feet
					Paper Birch	Low	10 - 20 feet	10 - 20 feet
					Red Pine	Low	5 - 10 feet	5 - 10 feet



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
64	429 - Mixed Upland Conifers	Poletimber Well	4.5	49	51-80	N/A	2025 - most trees are medium sized poles and need another 10 years of growing at least before harvest. There is an old road right at the compartment line. This is part of a very large sale (mostly in Cmpt 221 to the south) cut in 1974-76 by Holli Forest Products, Inc, permit #14-72-01, "West Branch Creek Block". Wood from this sale was hauled out through cmpt 220 on a frozen winter road through SWSW of Sec 8 (for which we have an easement). This same sale was first issued to Unto Makela in 1971, but went uncut as his business went into receivership.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		2	Pole	6		Tag Alder		
Quaking Aspen		18	Pole	7		Low		
Bigtooth Aspen		6	Pole	7		5 - 10 feet		
Balsam Fir		20	Pole	6	49	5 - 10 feet		
White Spruce		18	Pole	5				
Black Spruce		6	Sapling/Pole	4				
Tamarack		7	Pole	7				
White Pine		8	Log/Pole	12				
Red Pine		10	Log/Pole/Sap	14				
Jack Pine		5	Pole	6				
71	622 - Lowland Shrub	None	54.5			No		Low doggy land braided with drains
72	42290 - Natural Mixed Pine	Sawtimber Well	7.3	88	81-110	N/A		Big overstory pine with a mix of conifer and deciduous in the understory.
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		6	Pole/Sap/Log	9				
Paper Birch		7	Log/Pole/Sap	10	24			
Balsam Fir		5	Pole/Sap/Log	8				
White Spruce		7	Pole/Log/Sap	8				
White Pine		45	Log/XLog	16	88			
Red Pine		25	Log	14				
Jack Pine		5	Pole/Sap/Log	9				
78	429 - Mixed Upland Conifers	Sapling Medium	5.8	17	Immature	N/A	2024 - stand is filling in nicely with upland conifer species. There are some large overstory pine and a few large aspen still in the overstory. Stand cut in spring of 2008 by Triest Forest Products T-Sale #32-109-07-01.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		10	Sapling/Pole	2				
Quaking Aspen		10		2				
Balsam Fir		20		3				
White Spruce		25		3	17			
White Pine		15	Sapling/Pole/Log	2				
Red Pine		10	Sapling	2	17			
Jack Pine		10		2	17			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
80	6122 - Black Spruce	Poletimber Well	4.1	78	Unspecified	N/A	Black spruce stand with a small creek running through it. Mixed sizes of spruce from 4-10" DBH.																																																
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83	6220 - Alder/Willow	None	2.4			No	Lowland stand with a few scattered trees																																																
84	4134 - Aspen, Spruce/Fir	Sapling Well	20.0	23	Immature	N/A	2024 - Aspen stand. Mostly 3-4" diameter. Medium density spruce and fir in the understory. Was commercially cut in Dec 2001 thru Feb 2002 by John Heidtman Logging, Inc., permit #118-97-01, "Pine Patches Quill Sale". Access (frozen winter road) was from the northwest across Loren Gray's property. Only marked pine was cut, and all cherry & cedar was left (no oak present). All merchantable aspen, birch, maple, spruce & fir was cut. The windstorm of 7/21/02 virtually wiped out the residual pine here. Less than 10 sq.ft/acre left. It was not salvaged due to winter access needed plus crossing private land. With better access it would have been salvaged. Currently the stand has patchy aspen regen, some red maple stump sprouts, and sparse spruce/fir regen. We need to preferably develop access from the east on State land, or acquire a mgt easement to cross pvt land from the north. Road across private would need fill/gravel to build it up - it's flooded in the Spring and only usable by freezing in the winter.																																																
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88	6224 - Treed Bog	None	2.8			No	Lowland stand with scattered spruce, tamarack, and white pine. More trees further east																																																