



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 Suomi 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 Suomi 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

Compartment: 32220
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: 08/19/2025
Map Phase: Web Post



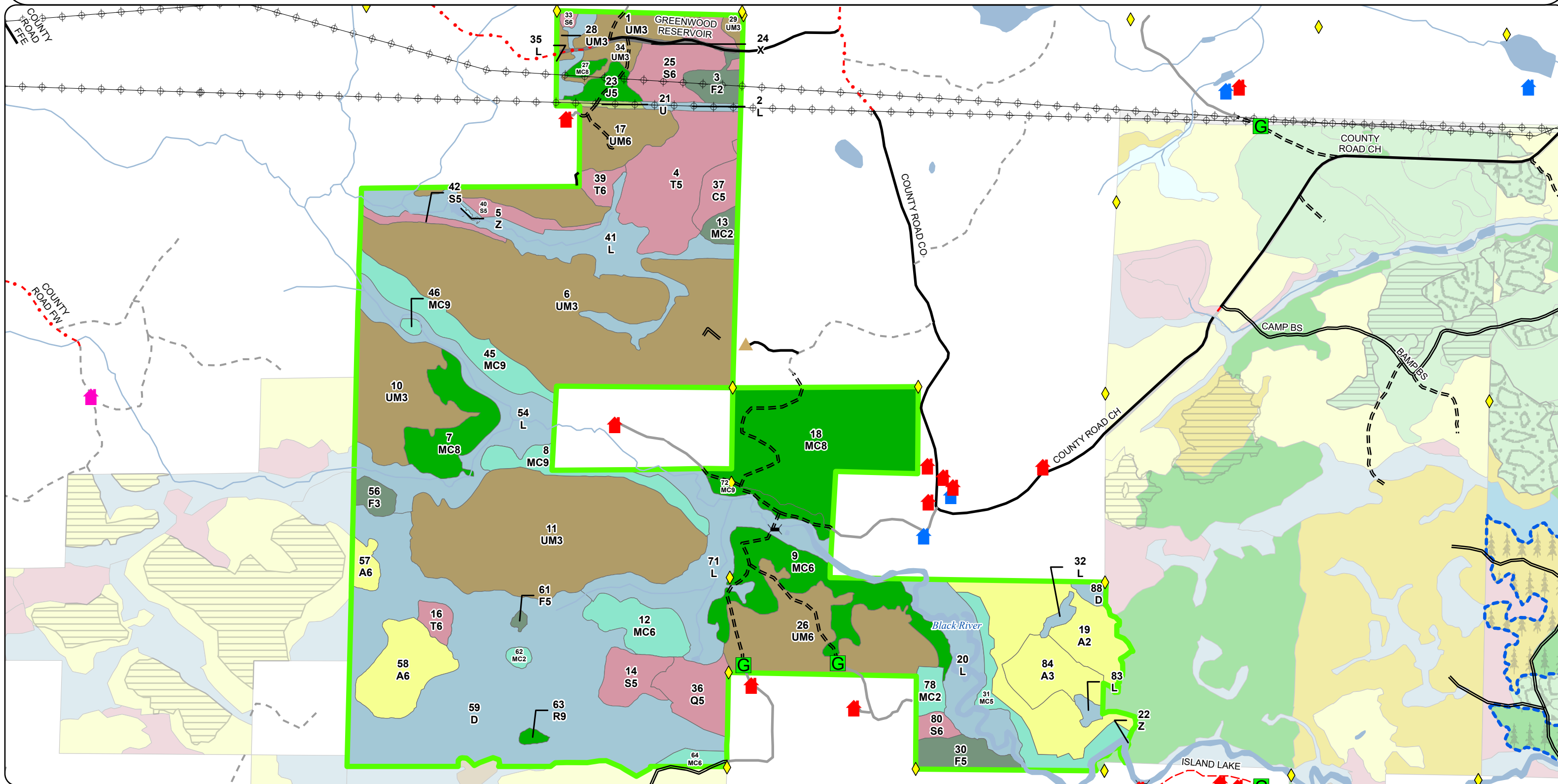
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- Survey Grade Corners
- Cabin
- House
- Structure, Seasonal Dwelling
- Berms
- Gate
- Bridges

- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Perennial River

- Powerline
- Lakes and Rivers
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- 413 - Aspen
- 422 - Natural Pines
- 423 - Other Upland Conifers

- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 612 - Lowland Coniferous Forest
- 122 - Road/Parking Lot
- 320 - Upland Shrub
- 622 - Lowland Shrub
















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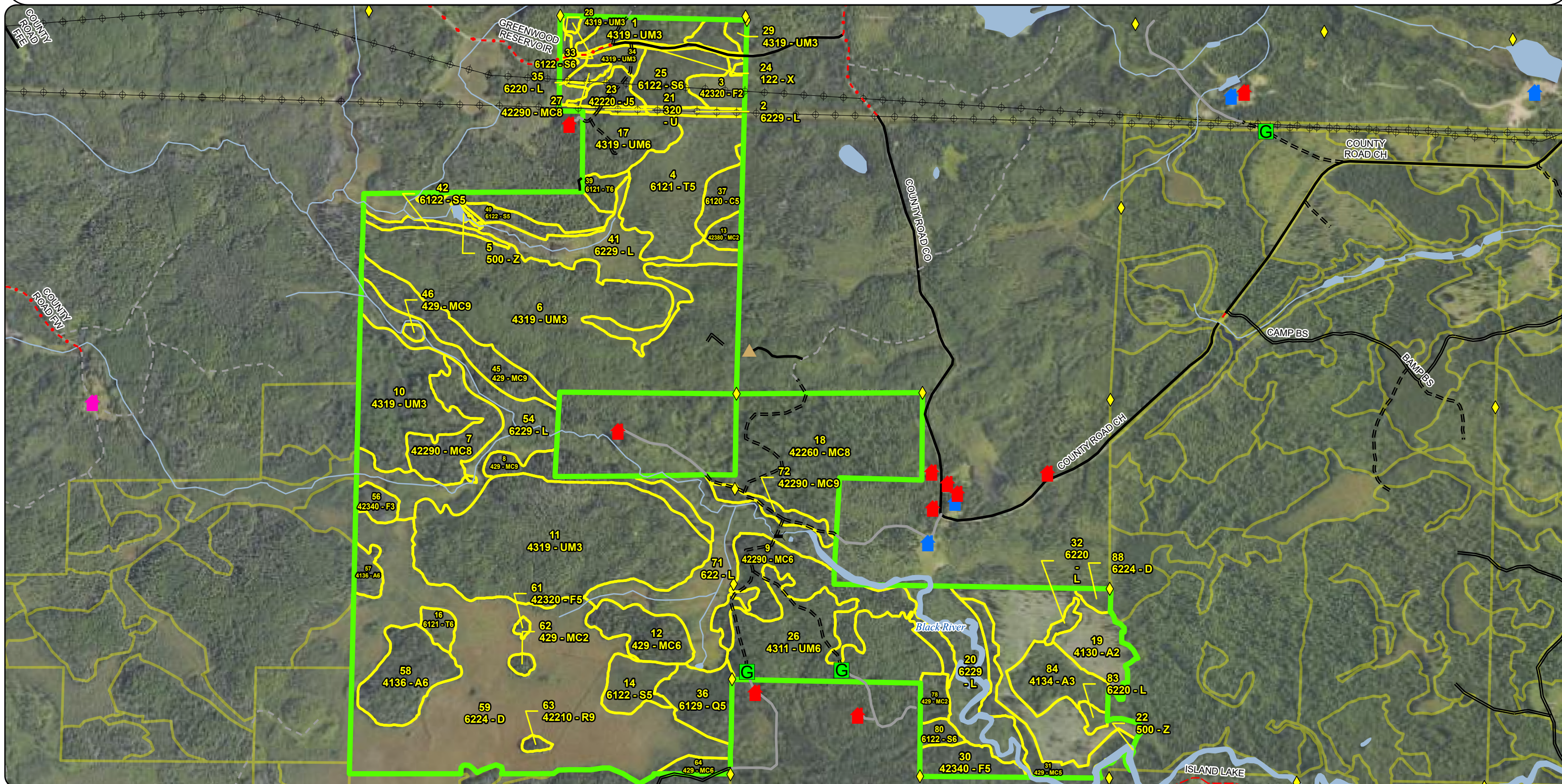
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Special Conservation Areas & Site Conditions Map

Compartment: 32220
T46N R28W Sec 6, 7 & 8
County: Marquette
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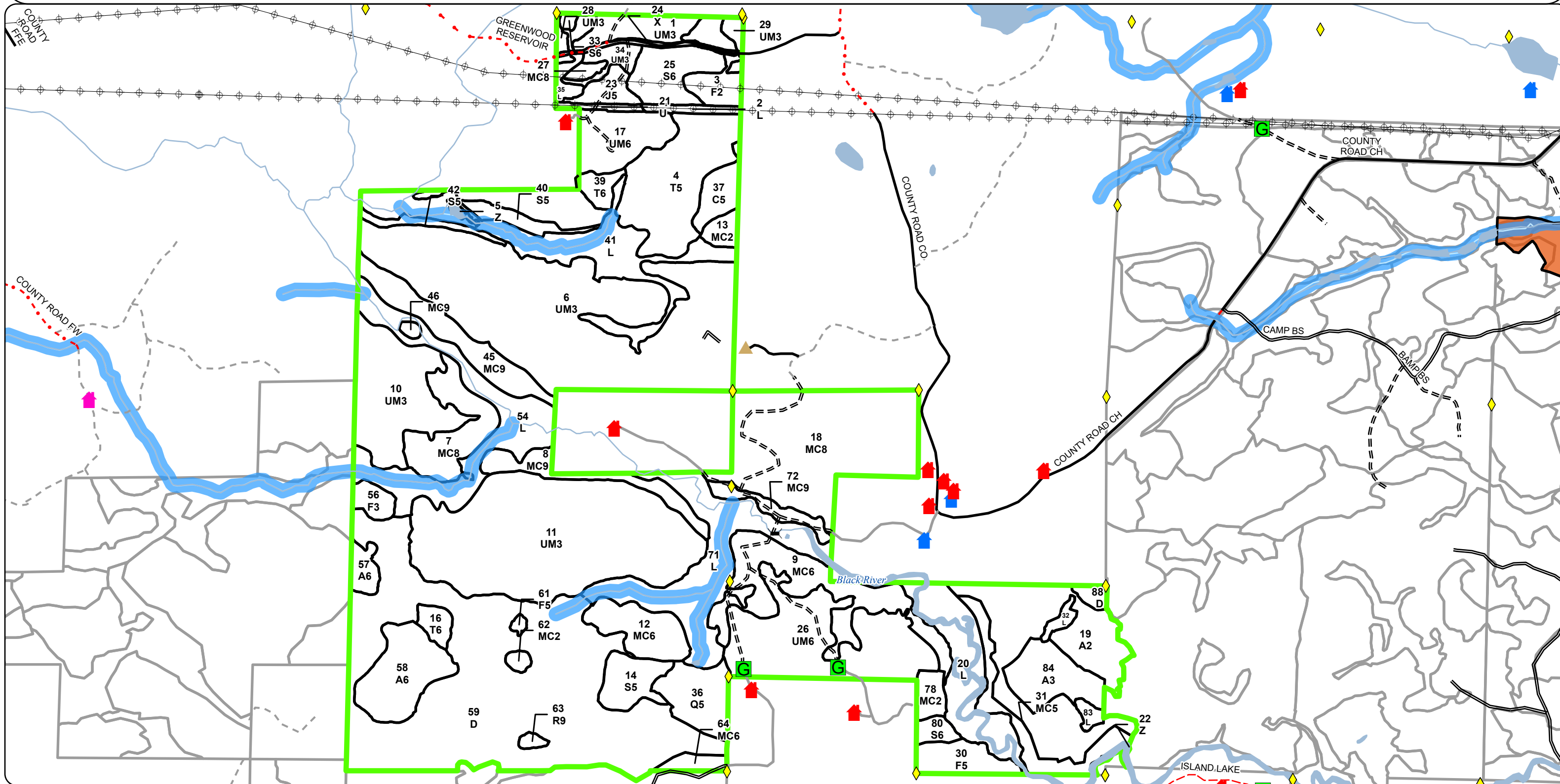
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- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Other Habitat Area



Report 1 – Total Acres by Cover Type and Age Class

Compartment 220 Year of Entry 2027



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	9	0	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	2	0	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

S t a n d	Mgt. Unit		Report 3 -- Treatments						Compartment: 32220		
									Year of Entry: 2027		
	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



Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions		
				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
	90%		10%	Relative Percent		6

*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	Dominant Site 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:							

Gwinn Mgt. Unit
Kyle Gould: Examiner

Report 4 – Site Conditions

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
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.																																																																												
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>8</td><td></td><td>14</td><td></td></tr><tr><td>Balsam Fir</td><td>25</td><td>Log</td><td>1</td><td></td></tr><tr><td>White Pine</td><td>8</td><td></td><td>14</td><td></td></tr><tr><td>Quaking Aspen</td><td>45</td><td>Log</td><td>1</td><td>15</td></tr><tr><td>Paper Birch</td><td>2</td><td>Log</td><td>1</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td>Log</td><td>1</td><td></td></tr><tr><td>White Spruce</td><td>7</td><td>Log</td><td>1</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	8		14		Balsam Fir	25	Log	1		White Pine	8		14		Quaking Aspen	45	Log	1	15	Paper Birch	2	Log	1		Red Maple	5	Log	1		White Spruce	7	Log	1		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Balsam Fir</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	< 5 feet	< 5 feet	Balsam Fir	Low	< 5 feet	< 5 feet																											
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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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Red Maple	5	Pole	4																																																																																
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Sub-Canopy Species	Density	Avg. Height	Size																																																																																
Ironwood	Low	5 - 10 feet	5 - 10 feet																																																																																
Tag Alder	Low	5 - 10 feet	5 - 10 feet																																																																																
Witch Hazel	Low	5 - 10 feet	5 - 10 feet																																																																																
Cherry (spp.)	Low	5 - 10 feet	5 - 10 feet																																																																																
Balsam Fir	Low	5 - 10 feet	5 - 10 feet																																																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
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
Paper Birch		2		10		Tag Alder		Low	5 - 10 feet	5 - 10 feet
Red Maple		5		8		Quaking Aspen		Medium	10 - 20 feet	10 - 20 feet
Red Pine		23		16		Bigtooth Aspen		Low	10 - 20 feet	10 - 20 feet
Balsam Fir		10	Seedling	8		Black Spruce		Low	10 - 20 feet	10 - 20 feet
Black Spruce		12		8		Balsam Fir		Medium	10 - 20 feet	10 - 20 feet
Tamarack		10		8		White Pine		Low	10 - 20 feet	10 - 20 feet
White Pine		38		16	88	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					
Balsam Fir		8	Seedling	8						
Tamarack		5	Seedling	7						
Black Spruce		6	Seedling	8						
Red Maple		15		9						
Paper Birch		15		9						
White Pine		4		10						
White Spruce		25		9	86					
Red Pine		15		9						
Bigtooth Aspen		7		8						
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
Red Pine		15		13	95					
White Pine		13		18	95					
Jack Pine		40	Pole	4	35					
Quaking Aspen		7		6						
White Spruce		10	Pole	4						
Balsam Fir		10	Pole	4						



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		Density	Avg. Height	Size	
Tamarack		5	Log	1		Hazelnut (Beaked)		Low	5 - 10 feet	5 - 10 feet	
White Pine		10		18		Tag Alder		Low	5 - 10 feet	5 - 10 feet	
Bigtooth Aspen		10	Log	1							
White Pine		5	Log	1							
White Spruce		5	Log	1							
Red Pine		5		18							
Paper Birch		5	Log	1							
Black Spruce		5	Log	1							
Quaking Aspen		20	Log	1	21						
Red Maple		10	Log	1							
Balsam Fir		20	Log	1							
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		Density	Avg. Height	Size	
Quaking Aspen		30	Log	3	25	Hazelnut (Beaked)		Low	5 - 10 feet	5 - 10 feet	
Bigtooth Aspen		12	Log	2		Tag Alder		Low	5 - 10 feet	5 - 10 feet	
Black Spruce		5	Log	3							
Red Pine		5		12							
White Spruce		10	Log	3							
White Pine		5		12							
Jack Pine		10	Log	3							
Tamarack		5	Log	3							
Balsam Fir		15	Log	3							
Black Cherry		3	Log	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	Density		Avg. Height	Size	
Black Spruce		15	Seedling	5		Hazelnut (Beaked)			Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen		10	Pole	4		Tag Alder			Low	5 - 10 feet	5 - 10 feet
Balsam Fir		5	Seedling	5		Balsam Fir			Low	5 - 10 feet	5 - 10 feet
White Spruce		20	Seedling	7							
Jack Pine		5	Seedling	6							
Tamarack		5	Seedling	5							
Red Pine		5		13							
White Pine		5		14							
Quaking Aspen		30	Seedling	6	45						



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
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		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Tamarack	13	Sapling	5		Paper Birch	Low		5 - 10 feet	5 - 10 feet
Balsam Fir	2	Sapling	6		Red Maple	Low		5 - 10 feet	5 - 10 feet
Black Spruce	85	Sapling	6	63	Tag Alder	Low		5 - 10 feet	5 - 10 feet
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		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Pine	10		14	95					
Balsam Fir	10		4						
Jack Pine	15		4	35					
Quaking Aspen	25	Seedling	5	35					
Black Spruce	2	Log	2						
White Spruce	10		4						
White Pine	5		14	95					
Paper Birch	3	Log	2						
Red Maple	5	Log	3						
Bigtooth Aspen	15		5						
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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	3	Seedling	8		Balsam Fir	Low		5 - 10 feet	5 - 10 feet
Red Pine	25		14		White Pine	Low		5 - 10 feet	5 - 10 feet
White Spruce	10	Sapling	6	25	White Spruce	Medium		5 - 10 feet	5 - 10 feet
Balsam Fir	5	Sapling	6						
White Pine	50		16	85					
Red Maple	7		10						
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.		
Canopy Species	% Cover	Size Class	DBH	Age					
Quaking Aspen	35	Log	1	15					
Paper Birch	4	Log	1						
White Spruce	7	Log	1						
White Pine	2	Log	1						
Red Pine	4		18						
Balsam Fir	16	Log	1						
White Pine	4		18						
Black Spruce	20	Pole	4						
Red Pine	2	Log	1						
Red Maple	6	Log	1						



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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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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.																																																						
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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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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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	
		White Spruce	18	Seedling	5		
		Bigtooth Aspen	6	Seedling	7		
		Balsam Fir	20	Seedling	6	49	
		Quaking Aspen	18	Seedling	7		
		White Pine	8		12		
		Red Pine	10		14		
		Black Spruce	6	Pole	4		
		Red Maple	2	Seedling	6		
		Jack Pine	5	Seedling	6		
		Tamarack	7	Seedling	7		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Hazelnut (Beaked)	Low	5 - 10 feet	5 - 10 feet		
		Tag Alder	Low	5 - 10 feet	5 - 10 feet		
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 Pine	25		14		
		Red Maple	6		9		
		White Pine	45		16	88	
		Jack Pine	5		9		
		Balsam Fir	5		8		
		Paper Birch	7		10	24	
		White Spruce	7		8		
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.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Jack Pine	10		2	17	
		Balsam Fir	20		3		
		Red Maple	10	Pole	2		
		White Spruce	25		3	17	
		White Pine	15		2		
		Quaking Aspen	10		2		
		Red Pine	10	Log	2	17	
							Stand cut in spring of 2008 by Triest Forest Products T-Sale #32-109-07-01.

