



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32223

Entry Year: 2026

Acreage: 797

County: Marquette

Management Area: Suomi Till and Outwash Plain

Stand Examiner: Jacob Siler

Legal Description:

T46N R29W, Sections 13 & 14.

Identified Planning Goals:

Diversify age/size classes amongst lowland stands.

Soil and topography:

Surface sediments consist of coarse-textured glacial till. The topography ranges from level swamps with islands of rock outcrop/highlands within, level wetland drainages and creek bottoms, to rolling or only slightly hilly upland terrain.

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

State ownership within this area is a scattered checkerboard arrangement. Corporate forest holdings surround state land along with some large blocks of private ownership as well. Development is very limited with a few seasonal hunting camps here and there. Production of forest products along with recreational activities such as hunting, trapping and snowmobiling make up the land uses in the compartment.

Unique Natural Features:

The large treed bog complex within Section 13 is very unique with numerous rock outcrop islands scattered throughout.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Stand 36 and 34 are designated as reviewable SCAs for potential old growth.

Watershed and Fisheries Considerations:

This compartment contains headwater reaches of the West Branch of the Middle Branch Escanaba River. The West Branch of the Middle Branch Escanaba River is a designated Type 1 trout stream less than 50-ft wide and has a predicted mean July temperature of 61.0 °F (cold stream). A 300-foot buffer is recommended for the West Branch of the Middle Branch Escanaba 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, buffer 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 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 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

Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as a building or dimension stone. Gravel pits are not located in the area, but potential may be good. The abandoned Republic iron mine is located to the west. This compartment has not been leased for metallic exploration recently. There is no economic oil and gas production in the UP.

Vehicle Access:

The only vehicle access that exists is a gated two track off of County Road FF that heads into the southwest part of the compartment.

Survey Needs:

No survey needs are required for this year of entry.

Recreational Facilities and Opportunities:

No developed recreational facilities exist within this compartment. Activities that do occur within this compartment include hunting, berry picking, hiking, fishing and trapping.

Fire Protection:

This compartment is included within the "581 Zone Dispatch" area which provides for a pre-planned dispatch of specified fire equipment from within the Gwinn and Crystal Falls Management Units. This dispatch is dependent on the severity of forecast burning conditions for the specified day. Areas of jack pine and red pine cover types with the encroachment of recreational seasonal dwellings have warranted this pre-planning. Mutual aide agreements with local township volunteer fire departments also provide critical fire suppression response, especially in the area of structure fire and/or protection, and evacuations. It is worth mentioning that the numerous islands within the treed bog complex have a fire history as evidenced by old lightning scars, charred stumps and the presence of paper birch.

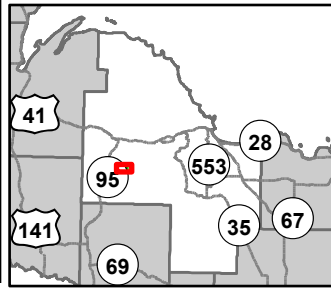
Additional Compartment Information:**The following reports from the Inventory are attached:**

- 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**

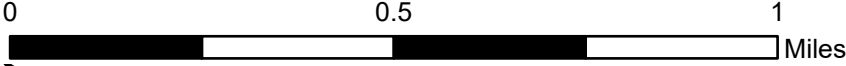
The following information is displayed, where pertinent, on the attached compartment maps:

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

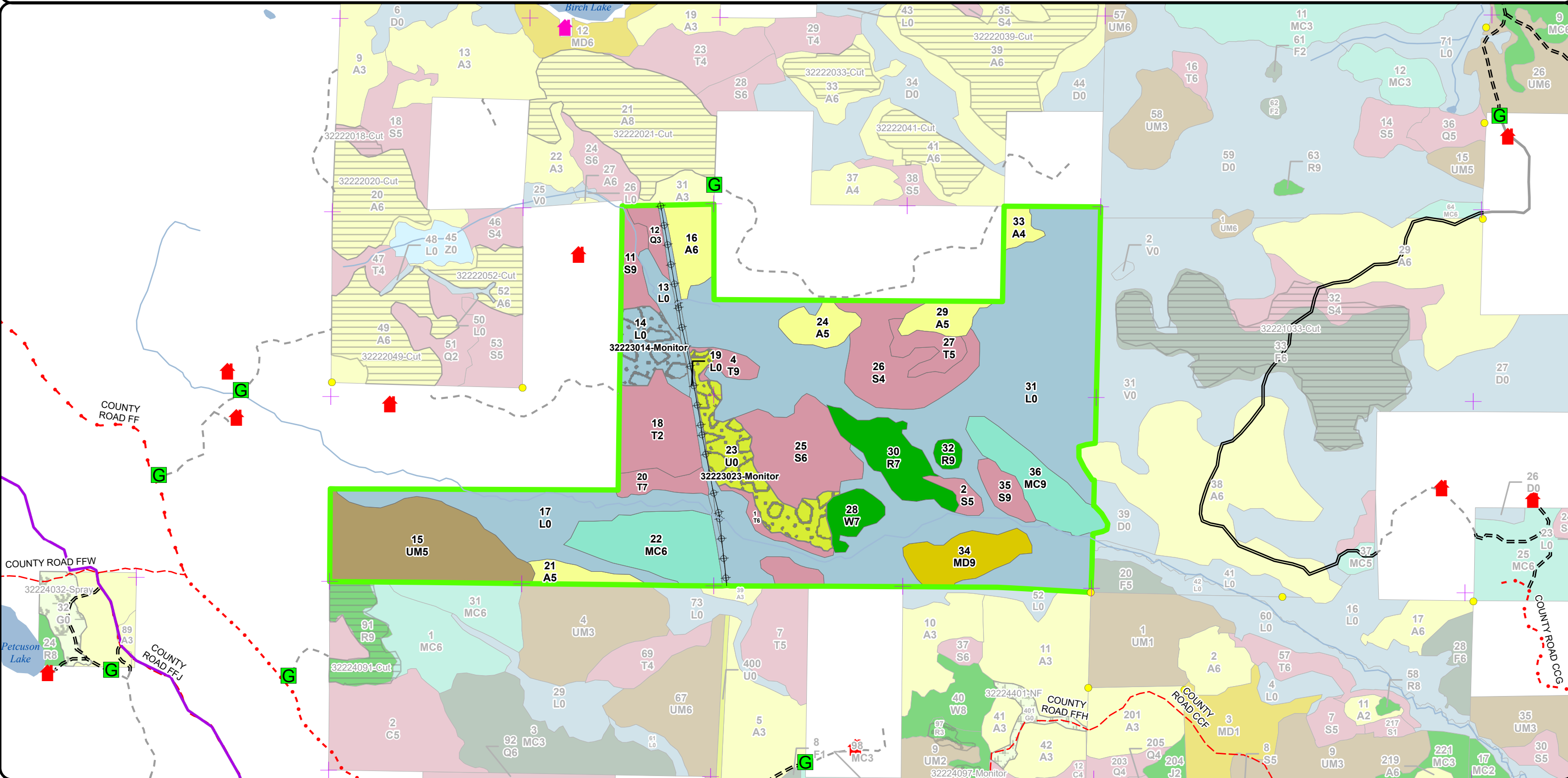
Cover Type & Treatments Map



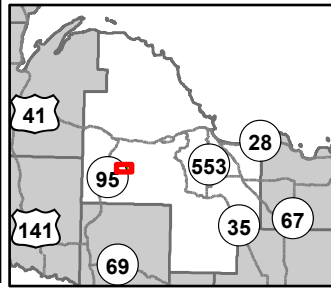
Compartment: 32223
 T46N R29W, Sec: 13, 14
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Suomi Till and
 Outwash Plain
 YOE: 2026
 Acres: 797.4 GIS Calculated
 Examiner: Jacob Siler
 Map Revised: 10/04/2024
 Map Phase: Post Review



- | | | | |
|------------------------------|-------------------------------|------------------------------|---------------------------------|
| Cabin | DNR - Secondary Forest Road | Perennial River | 422 - Natural Pines |
| Structure, Seasonal Dwelling | DNR - Forest Access Route | Powerline | 429 - Mixed Upland Conifers |
| Gate | County - Gravel Road | Lakes and Rivers | 430 - Upland Mixed Forest |
| Survey Grade Corners | County - Dirt Road (Seasonal) | Compartment Boundary | 612 - Lowland Coniferous Forest |
| Remonumented Section Corners | Private - Paved Road | Regeneration Survey | 330 - Low Density Trees |
| Designated Snowmobile Trails | Private - Dirt / Gravel Road | 413 - Aspen Types | 622 - Lowland Shrub |
| | Lake/Pond | 419 - Mixed Upland Deciduous | |



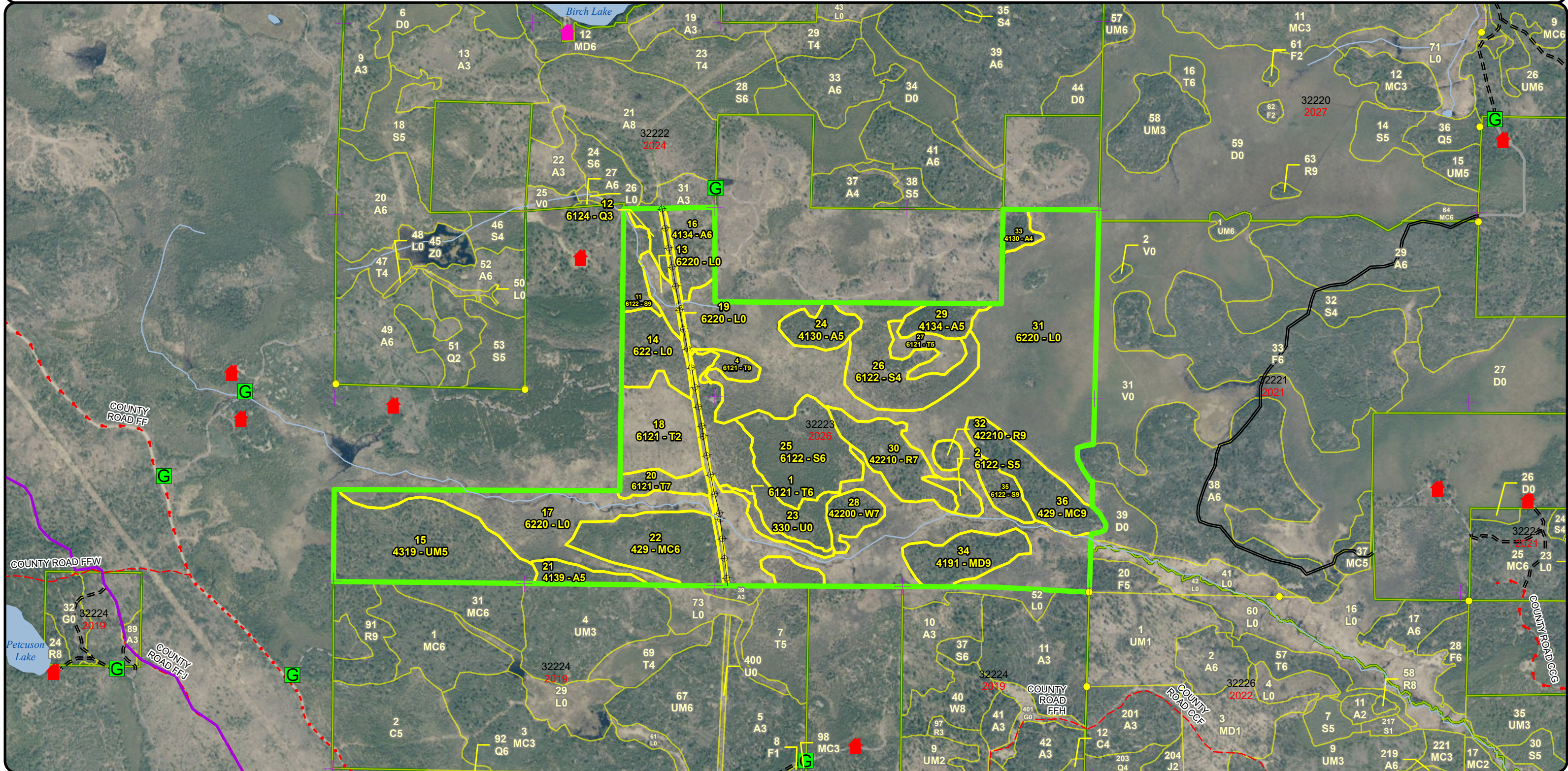
Stand Boundary Map



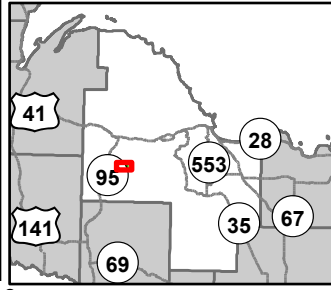
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0 0.5 1 Miles

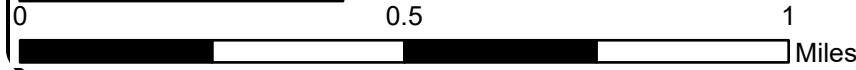
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Special Conservation Areas & Site Conditions Map



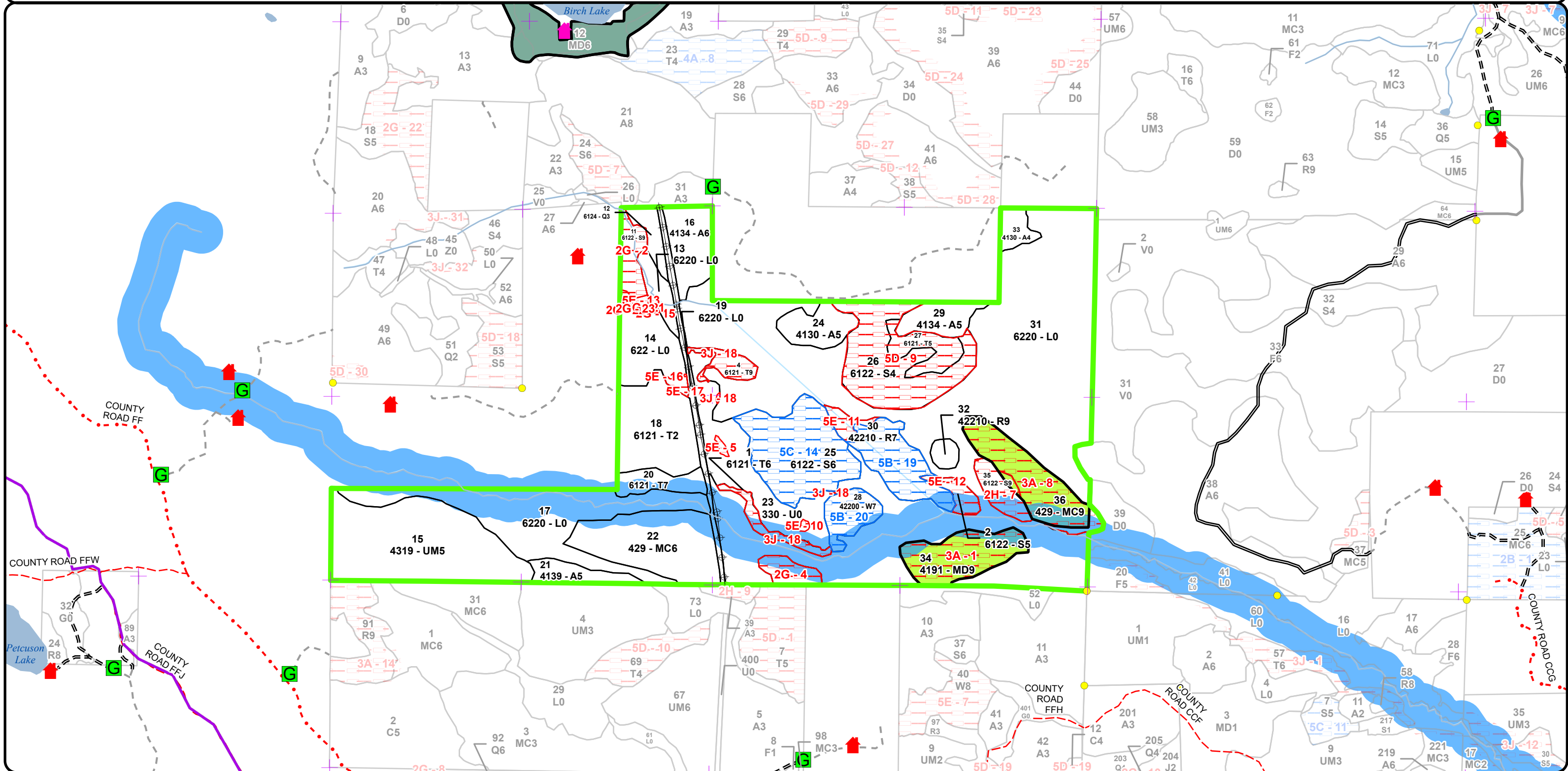
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- DNR - Secondary Forest Road
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- County - Dirt Road (Seasonal)

- Private - Paved Road
- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Powerline
- Lakes and Rivers
- Cold Water Streams
- Compartment Boundary
- SCA
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes

- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- High Priority Trout Stream Buffer
- Vernal Pool
- Possible Type 2 Old Growth



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+	Unnever-Aged	Total
Aspen	0	0	0	0	23	26	0	0	0	0	0	0	0	0	0	0	0	0	49
Low-Density Trees	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Shrub	371	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	371
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	86	10	0	0	0	0	0	0	95
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	21
Red Pine	0	0	0	0	0	0	0	0	0	0	3	0	0	23	0	0	0	0	26
Tamarack	0	0	30	0	0	0	0	0	0	16	8	10	0	0	0	0	0	0	64
Upland Conifers	0	0	0	0	36	0	0	0	0	0	0	0	0	25	0	0	0	0	61
Upland Mixed Forest	0	0	0	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	10
Total	404	0	30	61	65	26	0	0	0	16	97	41	0	58	0	0	0	0	796



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 223

Total Compartment Acres: 797

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

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	0	0	0	0	51	0	0	51	
Next Step	0	0	0	51	0	0	0	0	51	
Total	0	0	0	51	0	51	0	0	101	



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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Approved Treatments:

14	32223014-Monitor	18.1	622 - Lowland Shrub	Nonstocked	0		Monitoring	Natural Regen (Re-Inventory)	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No
<p><u>Prescription</u> Monitor to see how natural regeneration is doing within the stand. If natural regen is not sufficient machine seed via a snowmobile. <u>Specs:</u> <u>Next Step</u> Seeding, Machine Seed <u>Treatments:</u> <u>Acceptable</u> Spruce, fir, birch, and tamarack. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2035</p>											
23	32223023-Monitor	32.5	330 - Low-Density Trees	Nonstocked		Immature	Monitoring	Natural Regen (Re-Inventory)	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Monitor to see how natural regeneration is doing within the stand. If natural regen is not sufficient machine seed via a snowmobile. <u>Specs:</u> <u>Next Step</u> Seeding, Machine Seed <u>Treatments:</u> <u>Acceptable</u> Spruce, fir, birch, and tamarack. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2035</p>											

Total Treatment Acreage Proposed: 50.6

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jacob Siler: Examiner

Compartment: 223
Year of Entry: 2026



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions								
		With Condition	Not Available		5B	5C	2G	2H	3A	3J	5D	5E	
50	50	0	0	Aspen							0		
32	31	0	1	Low-Density Trees						0			1
6	6	0	0	Lowland Conifers									
372	371	0	1	Lowland Shrub				0	0		0		1
95	0	37	58	Lowland Spruce/Fir		37	8	8	0		36		7
21	0	0	21	Mixed Upland Deciduous					21				
26	3	19	3	Red Pine	19								3
64	38	0	25	Tamarack			6			10	10		
61	36	0	25	Upland Conifers				0	25				
61	61	0	0	Upland Mixed Forest									
10	0	10	0	White Pine	10								
798	596	66	136	Total Forested Acres	29	37	14	8	46	10	46		12
	75%	8%	17%	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	3A: Conservation Values incompatible with harvest at this time	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Type 1 old growth. Reviewable SCA.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jacob Siler: Examiner

Compartment: 223
Year of Entry: 2026



4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments: Would have to freeze across stagnant black spruce type ground. Most of the good quality/higher basal area spruce areas are on the south side along the stream. The stand gets thinner and wetter as you go to the northwest. I don't see this being financially feasible given all the factors.							
8	Unavailable	3A: Conservation Values incompatible with harvest at this time	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Type 1 old growth. Reviewable SCA.							
9	Unavailable	5D: Unproductive Forest Land	46	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Stagnant black spruce and tamarack. Very wet stand.							
10	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jacob Siler: Examiner

Compartment: 223
Year of Entry: 2026



11	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	5	2G: Too wet (sensitive soils, does not include access issues)	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for Chilly Dog SBW sale. 32-111-16. This was part of stand 14 but not best fits with stand 11.							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments: I believe it's best to hold this stand for age/size class diversity. This stand is also acting as a seed source to the adjacent cut. This stand is in good shape and looks healthy.							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jacob Siler: Examiner

Compartment: 223
Year of Entry: 2026



17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: We are managing the understory and want to keep super canopy pine for wildlife, seed source and diversity.							
20	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: We are managing the understory and want to keep super canopy pine for wildlife, seed source and diversity.							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jacob Siler: Examiner

Compartment: 223
Year of Entry: 2026



23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).
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	6121 - Tamarack	Poletimber Well	4.8	106	81-110	N/A	Stand was cut in the winter of 2021 as part of the Chilly Dog SBW sale. 32-111-16.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		50	Pole/Log	9	106	Tamarack	Low	Variable	Sapling
Tamarack		50	Pole/Log	9		Black Spruce	Low	Variable	Sapling
2	6122 - Black Spruce	Poletimber Medium	4.5	97	1-50	N/A	This stand is retention for Stand 30 that was cut in the winter of 2021 as part of the Chilly Dog SBW sale. 32-111-16.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		40	Pole/Log	9		Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce		60	Pole/Log	9	97	Balsam Fir	Low	Variable	Sapling
						Black Spruce	Low	< 5 feet	Seeding
4	6121 - Tamarack	Sawtimber Well	5.2	105	111-140	N/A	Retention for Stand 23. Chilly Dog SBW sale. 32-111-16.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		75	Log/Pole	11	105	Tamarack	Low	Variable	Sapling
Black Spruce		25	Log/Pole	10		Black Spruce	Low	Variable	Sapling
						Tag Alder	Low	5 - 10 feet	Tall Shrub
11	6122 - Black Spruce	Sawtimber Well	10.0	105	51-80	N/A	Trace amount of white pine and cherry. North side of stand has higher BA. South side gets quite thin in areas with lots of tag alder. Small amount of upland on west line with some aspen migrating onto high spot from adjacent private cut.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		10	Pole/Sapling	5		Tag Alder	Full	Variable	Tall Shrub
Tamarack		30	Log	13		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen		5	Pole/Sapling	6					
Black Spruce		55	Log/Pole	12	105				
12	6124 - Lowland Spruce-Fir	Sapling Well	5.6	36	81-110	N/A	Stand cut in 1987. Nice lowland regeneration throughout the stand. Trace cedar, cherry and white pine.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		20	Pole/Sapling	5		Balsam Fir	High	Variable	Sapling
Tamarack		25	Sapling/Pole	4		Black Spruce	Low	Variable	Sapling
Black Spruce		35	Pole/Sapling	5	36	Tamarack	Low	Variable	Sapling
Balsam Fir		20	Sapling/Pole	4		Tag Alder	Medium	5 - 10 feet	Tall Shrub
						Red Maple	Low	Variable	Sapling
13	6220 - Alder/willow	Nonstocked	6.3			No			
14	622 - Lowland Shrub	Nonstocked	19.4	0		No	Stand was cut in the winter of 2021 as part of the Chilly Dog SBW sale. 32-111-16 Some sparse pull sized spruce, tam and paper birch. One rock with white pine fir. keep monitoring. Retention on north side merged with stand 11 and another patch of retention on south side kept in stand 14.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
15	4319 - Mixed Upland Forest	Poletimber Medium	60.7	23	51-80	N/A	Stand was cut in 2001. A mix of balsam fir and red maple have regenerated back. Scattered large diameter white pine and red pine left as residual. Haul road has filled in with nice red pine and white pine. (2014) A vast majority of the balsam fir is now standing dead. Trace amounts of cedar. (2024)																																																											
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16	4134 - Aspen, Spruce/Fir	Poletimber Well	15.4	36	51-80	N/A	Cut in 1987. Nice regeneration throughout. A good mix of conifer and deciduous within the stand. fir is in rough shape and falling out in many areas.																																																											
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17	6220 - Alder/willow	Nonstocked	54.0			No	Scattered large tamarack scattered on the west side of this stand.																																																											
18	6121 - Tamarack	Sapling Medium	29.9	17	Immature	N/A	Cut in 2006. Tamarack and black spruce regeneration is poking through the snow but hard to see if there is smaller regeneration. Overall it looks like stand is forested. Tag alder is pretty thick. A few remnant pole sized black spruce and tamarack scattered throughout the stand. Northeast corner of the stand has filled in with poorer quality quaking aspen. Trace amount of white birch and white pine.																																																											
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19	6220 - Alder/willow	Nonstocked	9.7			No																																																												
20	6121 - Tamarack	Sawtimber Poor	8.4	95	1-50	N/A	Mixed stand of black spruce and tamarack. Stand was left as a buffer along west branch creek. Trace amount of jack pin, white pine and red pine. Stand is falling apart.																																																											
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21	4139 - Aspen, Mixed Deciduous	Poletimber Medium	7.8	37	1-50	N/A	Mixed stand of conifer, aspen and red maple. Stand has good stocking of decent quality. (2014) Most of the balsam has died and is now standing dead. Balsam was once a major component of this stand.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
22	429 - Mixed Upland Conifers	Poletimber Well	35.8	37	51-80	N/A	Stand of mixed species of decent quality. Some areas of high ground, some low ground. Aspen is poorer quality. Budworm damage on balsam fir. Most of the young white pine has been damaged by weevil. Trace amount of large red maple and red pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Jack Pine	7	Pole	7		Balsam Fir	High		Variable	Sapling
White Pine	1	XLog/Log	18		Tamarack	Low		Variable	Sapling
White Pine	4	Pole	6		Black Spruce	Medium		Variable	Sapling
Black Spruce	25	Pole/Sapling	6		White Pine	Low		Variable	Sapling
Balsam Fir	15	Pole	7		Tag Alder	Medium		Variable	Tall Shrub
Quaking Aspen	33	Pole	7	37	Red Pine	Trace		Variable	Sapling
Tamarack	15	Pole	7		Quaking Aspen	Low		Variable	Sapling
23	330 - Low-Density Trees	Nonstocked	32.5		Immature	6128 - Lowland Coniferous, Mixed Deciduous		Stand was cut in the winter of 2021 as part of the Chilly Dog SBW sale. 32-111-16. Trace amount of large red and white pine	
Sub-Canopy Species	Density	Avg. Height	Size						
Tamarack	Low	>20 feet	Pole						
Tamarack	Low	< 5 feet	Seeding						
Black Spruce	Low	< 5 feet	Seeding						
Black Spruce	Low	>20 feet	Pole						
White Pine	Trace	< 5 feet	Seeding						
24	4130 - Aspen	Poletimber Medium	11.3	44	51-80	N/A	Cut with the "Island Sale", from compartment 222, completed in 1980. This a small poor site on a rock. Some older trees present on the edges as it drops off to the swamp. This was once primarily a balsam fir stand but the balsam got hit with budworm and now is almost all standing dead. Trace amount of white pine and yellow birch.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	5	Pole	8		Quaking Aspen	Low		Variable	Sapling
Quaking Aspen	60	Pole	7	44	Hazelnut (Spp.)	Low		Variable	Tall Shrub
Balsam Fir	10	Pole	7		Red Maple	Low		Variable	Sapling
Black Spruce	5	Pole	7		Balsam Fir	Medium		Variable	Sapling
Red Maple	18	Log/Pole	10	91					
White Spruce	2	Pole	7						
25	6122 - Black Spruce	Poletimber Well	36.7	96	111-140	N/A	Healthy stand with little blowdown. This stand is acting as a good seed source for adjacent stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Spruce	80	Pole	7	96	Black Spruce	Low		Variable	Sapling
Tamarack	20	Log/Pole	10		Tag Alder	Low		Variable	Tall Shrub
					Michigan Holly	Medium		Variable	Tall Shrub
					Tamarack	Low	Variable	Sapling	
26	6122 - Black Spruce	Poletimber Poor	36.0	93	1-50	N/A	Stand of stagnant tamarack, trees are stunted and small. Thick tag alder within the understory.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Spruce	75	Pole	7	93	Tag Alder	Full		Variable	Tall Shrub
Paper Birch	5	Pole	6		Balsam Fir	Low		Variable	Sapling
Tamarack	20	Pole	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
27	6121 - Tamarack	Poletimber Medium	15.5	82	1-50	N/A	Stand of lower density tamarack. A high water table exists. Thick tag alder underneath.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		95	Pole	7	82	Tamarack	Medium	Variable	Sapling
Black Spruce		5	Pole	6		Tag Alder	Full	Variable	Tall Shrub
28	42200 - Natural White Pine	Sawtimber Poor	10.0	120	1-50	N/A	Stand was cut in the winter of 2021 as part of the Chilly Dog SBW sale. 32-111-16 Stand is on higher ground and should regenerate back to a mix of species. Scattered large diameter white pine exist throughout the stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		75	XLog/Log	20	120	White Pine	Trace	< 5 feet	Seeding
Red Pine		25	XLog/Log	20		Sugar Maple	Trace	Variable	Sapling
						Red Pine	Trace	< 5 feet	Seeding
						Red Maple	High	Variable	Sapling
						Balsam Fir	High	Variable	Sapling
29	4134 - Aspen, Spruce/Fir	Poletimber Medium	10.0	47	51-80	N/A	Cut with the "Island Sale", from compartment 222, completed in 1980. This stand is much like stand 24 to the west. Stand is on a rock, got hit by budworm, and has lots of dead standing trees. Trace red pine and paper birch.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		10	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling
Black Spruce		10	Pole	6		Red Maple	Medium	Variable	Sapling
Red Pine		2	Log/Pole	11					
White Pine		2	Pole	8					
Red Maple		31	Pole/Log	8					
Quaking Aspen		45	Pole	7	47				
30	42210 - Natural Red Pine	Sawtimber Poor	22.8	120	1-50	N/A	Stand was cut in the winter of 2021 as part of the Chilly Dog SBW sale. 32-111-16 Stand is on higher ground and should regenerate back to a mix of species. Scattered large diameter white pine exist throughout the stand. Heavily browsed.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		40	XLog/Log	22		Red Maple	High	5 - 10 feet	Sapling
Red Pine		60	XLog/Log	22	120	Black Spruce	Trace	< 5 feet	Seeding
						Balsam Fir	Medium	Variable	Sapling
						Tag Alder	Low	5 - 10 feet	Tall Shrub
31	6220 - Alder/willow	Nonstocked	282.0			No	Some areas have scattered mature tamarack within this stand.		
32	42210 - Natural Red Pine	Sawtimber Well	3.2	95	51-80	N/A	Stand consists of a small rock island with log sized white pine and red pine. This stand is patchy with a quite variable BA.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		2	Log	10		Balsam Fir	Medium	Variable	Sapling
White Spruce		5	Log	12		Quaking Aspen	Low	Variable	Sapling
Black Spruce		10	Pole	9		Red Maple	Medium	Variable	Sapling
Red Pine		68	Log	16	95	Balsam Fir	Low	>20 feet	Pole
White Pine		15	XLog/Log	18					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
33	4130 - Aspen	Poletimber Poor	5.4	44	1-50	N/A	Cut with the "Island Sale", from compartment 222, completed in 1980. Stand has lots of standing dead balsam. It's essentially a rock with some 3-4 stick aspen and a low spot on the north end.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		70	Pole	6	44	Black Spruce	
Paper Birch		5	Log/Pole	12		Balsam Fir	
White Spruce		1	Pole	8			
White Pine		2	Log/XLog	22			
Red Pine		2	XLog/Log	22			
Black Spruce		10	Pole	18			
Red Maple		10	Pole/Sap/Log	7			
						Density	Avg. Height
							Size
34	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	21.0	103	81-110	N/A	Birch and balsam falling out. Trace amount of cedar. Large super canopy white pine, 120+ years old, present. This is transitioning into an uneven-aged stand as birch and balsam fall out and are replaced.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		5	Pole	6		Red Maple	
Red Maple		41	Pole/Log	9	103	Balsam Fir	
Paper Birch		25	Log/Pole	13		Tag Alder	
Black Spruce		2	Pole	9		White Pine	
White Pine		25	XLog/Log	22			
White Spruce		2	Log	14			
						Density	Avg. Height
							Size
35	6122 - Black Spruce	Sawtimber Well	8.0	97	81-110	N/A	Variable BA with blowdown pockets throughout. Trace amount of birch. Stand gets thinner to the north. Stream on south side. 100 percent canopy closure on south side and 50 percent on north side. Unfortunately, much of the good quality stuff is within stream buffer.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		70	Log/Pole	10	97	Tamarack	
Tamarack		30	Log/Pole	12		Tag Alder	
						Black Spruce	
						Balsam Fir	
						Density	Avg. Height
							Size
36	429 - Mixed Upland Conifers	Sawtimber Well	25.4	120	81-110	N/A	Large super canopy white pine and red pine with a sparse understory of red maple and paper birch. Paper birch is falling out. Lots of standing dead balsam fir. Super canopy white pine large as 29 inches and probably a bit older. This is transitioning into an uneven-aged stand as birch and balsam fall out and are replaced.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		38	XLog/Log	22	120	Balsam Fir	
Paper Birch		20	Log/Pole	12		Red Maple	
White Spruce		2	Log/XLog	14			
Red Pine		20	XLog/Log	20			
Red Maple		20	Pole	8			
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