

# **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 it's 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; course 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 CountyNo 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:**

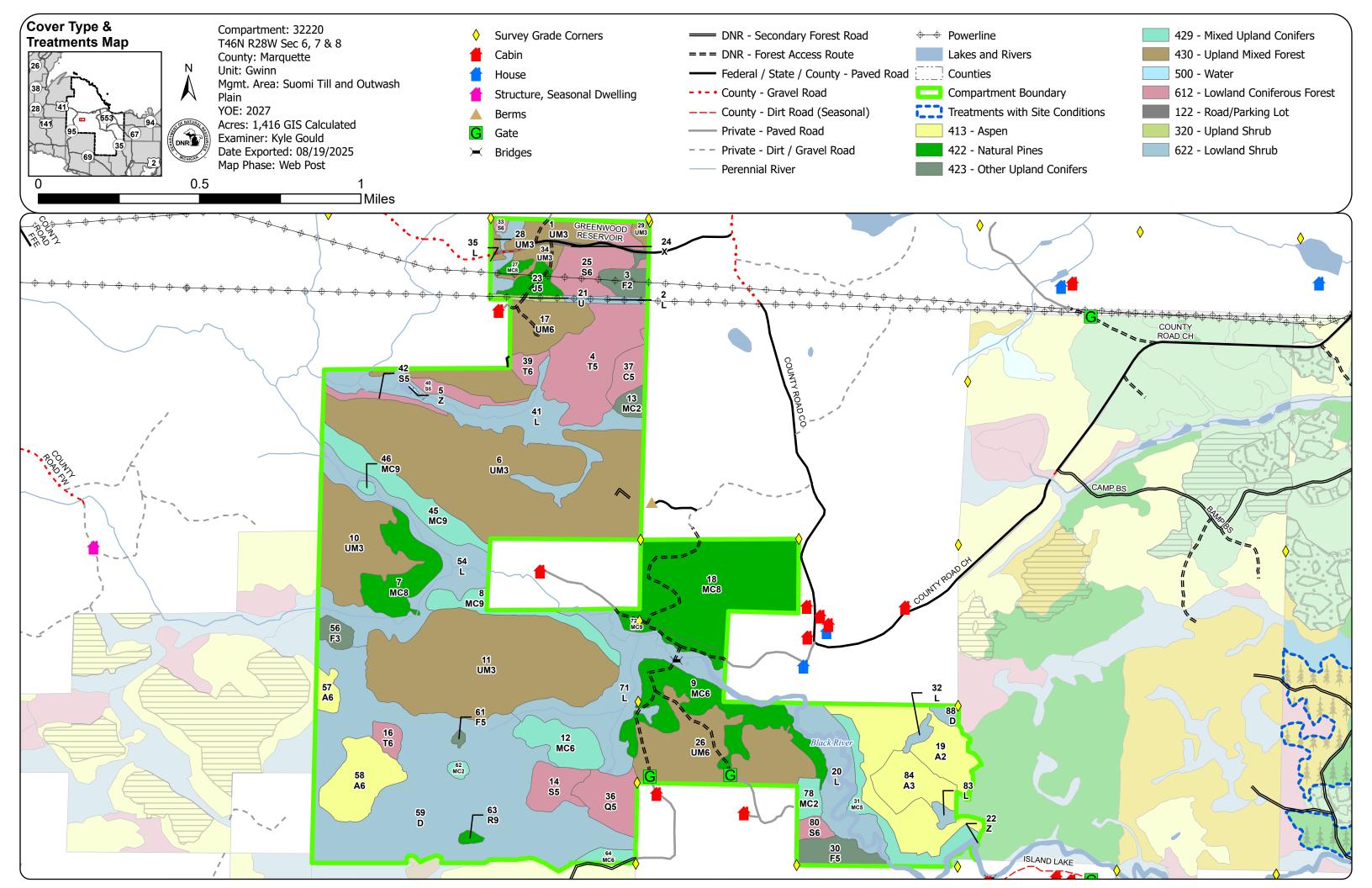
The following reports from the Inventory are attached:

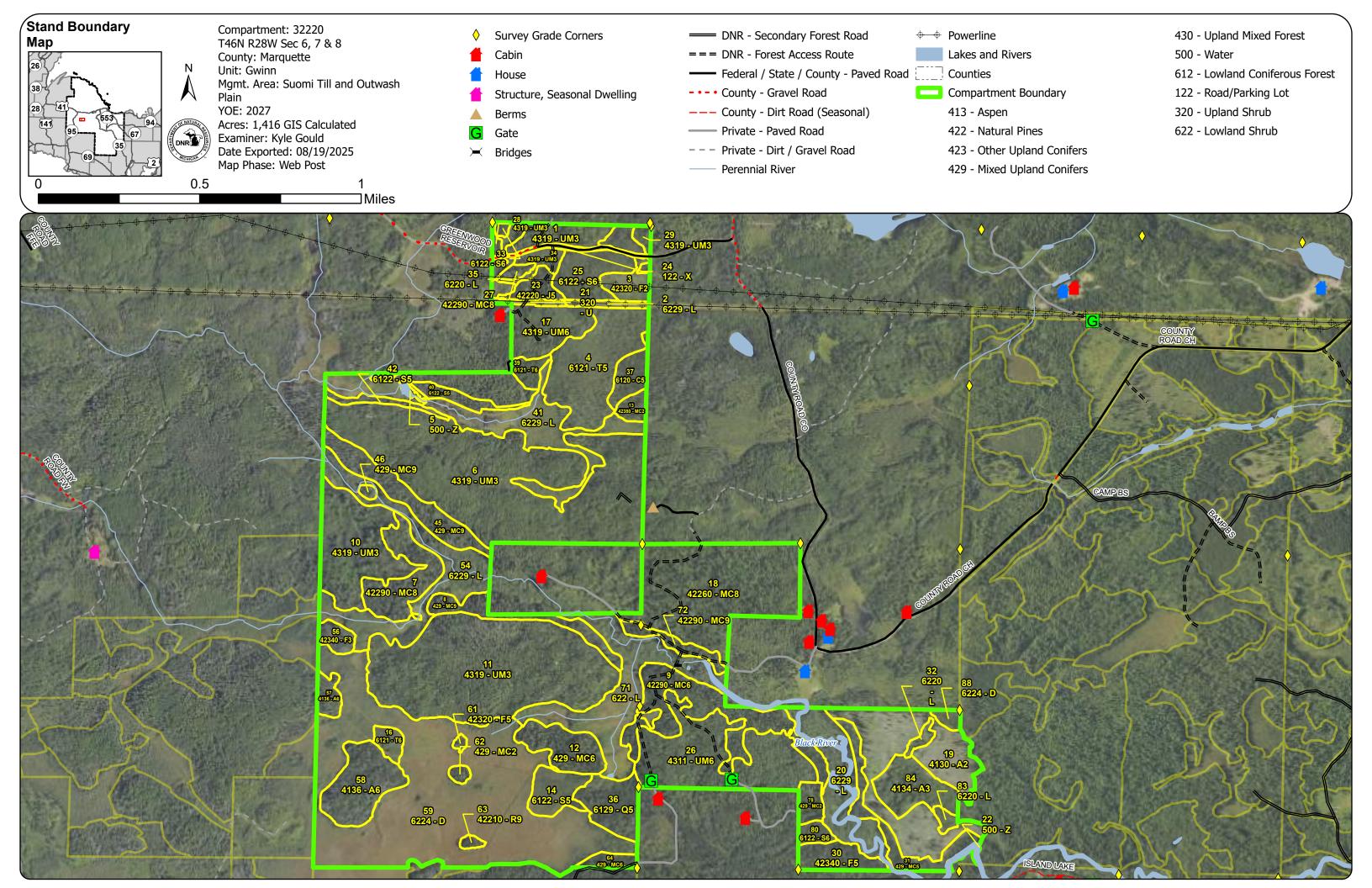
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

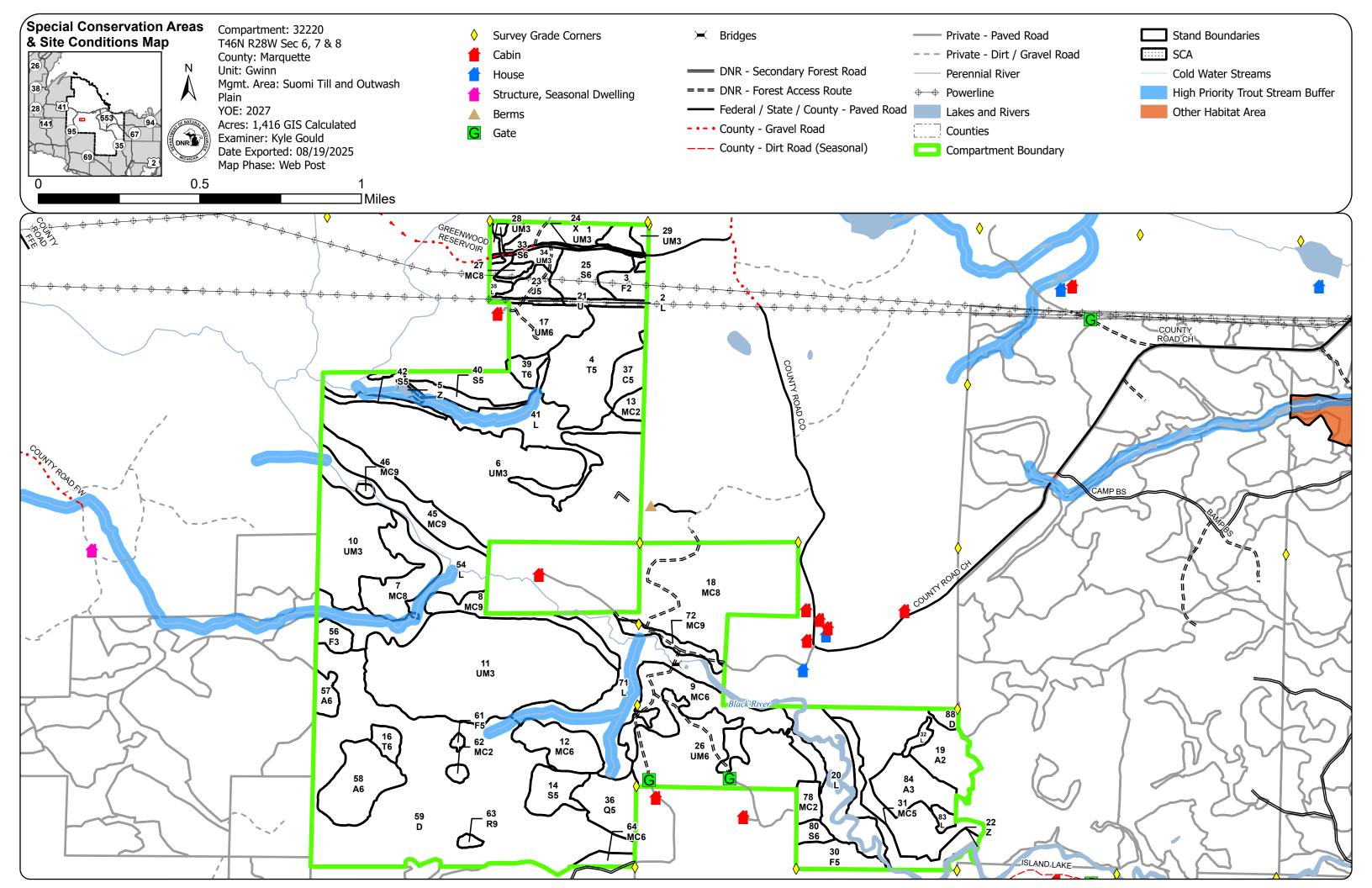
The following information is displayed, where pertinent, on the attached compartment maps:

Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries

Details on the road access system







Gwinn Mgt. Unit

Kyle Gould: Examiner

Compartment 220 Year of Entry 2027



# Age Class

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			/ § / §	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		9 /		3/8	/ \$ / {	/ \$			S ZZ					Šį Š	No. No.
	$\leftarrow$				-		-						-						
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

s t			Mgt. Unit		Repor	t3	Treatments		Compartme Year of Ent		OF NATURAL PRODUCTION
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

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 Avail Acres **Dominant Site Conditions** Available With Condition Not Available Acres 2F 3J 5D Aspen Cedar Jack Pine **Lowland Conifers** Lowland Shrub Lowland Spruce/Fir Natural Mixed Pines Red Pine Tamarack Treed Bog **Upland Conifers Upland Mixed Forest Upland Shrub** Upland Spruce/Fir Urban Water 1,324 1,197 **Total Forested Acres** 90% 10% Relative Percent

<sup>\*</sup>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



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



9	Unavailable	5D: Unproductive forest land	6	Unspecified	Unspecified	Unspecified	Unspecified
C	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 C	over Type		Size Density	Acres	Stand Age E	BA Range	Managed S	ite	General Comments
1	4319 - Mixed	l Upland Fo	rest	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
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	heavier to large pine and has a large rock outgrowing that faces the
	Red Pine	8		14	Re	d Maple	Low	< 5 feet	< 5 feet	lowland area to the westStand harvested in winter/pre-breakup 2010
	Balsam Fir	25	Log	1	Ва	lsam Fir	Low	< 5 feet	< 5 feet	TS#32-108-07-01 Boulder Line Sale by Holli Forest Products. NE corner
	White Pine	8		14						<sup>⊥</sup> of Sec 6 is a new County remonumentation corner set in 2002, as is the N1/4 corner of Sec 6.
	Quaking Aspen	45	Log	1 15						
	Paper Birch	2	Log	1						
	Red Maple	5	Log	1						
	White Spruce	7	Log	1						
2	6229 - Mixed	Lowland SI	hrub	None	3.5			No		Powerline opening. Lowland with tag alder and cattails.
3	42320 - U <sub>l</sub>	pland Spruc	e	Sapling Medium	8.2	15		N/A	ı	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
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	in winter/pre-breakup 2010 TS#32-108-07-01 Boulder Line Sale by Holli
	Tamarack	35		2 15	Ta	ag Alder	Trace	5 - 10 feet	5 - 10 feet	Forest Products. Seed trees left, see timber sale report for total number
	Black Spruce	60		2 15						left. Some windthrow present from 7/21/02 storm. Site is semi-high
	Balsam Fir	5		2						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.
4	6121 - 1	Tamarack	Р	oletimber Mediur	m 46.1	88	1-50	N/A	1	North and south ends are the largest diameter and count be treated.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	The central west portion is smaller diameter and looks stunted due to wetter ground conditions.
	Tamarack	90		9 88	Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	The state of the s
	Black Spruce	10	Seedling	7						_
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	d Upland Fo	rest	Sapling Well	167.8	25	Immature	N/A		2025 - stand looks healthy. Some of the better quality aspen in the area.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	The stand does contain some lower areas where trees are sparse and tag alder is heavy. There are some rocky areas and rock outcroppings
	White Pine	5		12	Iro	onwood	Low	5 - 10 feet	5 - 10 feet	and rock walls within the stand that exceed 20 foot drops. Was
	Tamarack	3	Log	3	Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet	commercially harvested in 1998 thru 2000 by Jim Carey of Sawyer
	Red Maple	5	Pole	4	Wit	ch Hazel	Low	5 - 10 feet	5 - 10 feet	Lake, permit #110-97-01, "Black River North Sale". All oak, cherry, cedar, & yellow birch was left. Only marked pine was cut. Subsequently,
	Paper Birch	5	Sapling	5	Che	erry (spp.)	Low	5 - 10 feet	5 - 10 feet	the stand was hard hit by the windstorm of 7/21/02 and we lost most of
	Quaking Aspen	25	Pole	4 25	Ва	lsam Fir	Low	5 - 10 feet	5 - 10 feet	the residual pine. Aspen is dominant however, with a minor component
	Balsam Fir	15	Pole	4 25			,		,	of conifer. This stand is essentially a ridgetop paralleling the river.
	Red Pine	7		12						
	Black Spruce	5	Log	3						
	Bigtooth Aspen	20	Pole	4						
	White Spruce	10		1 25						

DNR DNR

Stand	i Level 4 C	over Type		Size Density	Acres	Stand Age B	A Range	Managed S	ite	General Comments
7	42290 - Nat	ural Mixed	Pine Sa	awtimber Mediun	n 24.6	88	1-50	N/A		2025 - Following the salvage harvests, there is some maple and aspen
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	regeneration in the understory. Most the regeneration is less than 20 feet tall and not merchantable. Had a commercial salvage cut in Jan/Feb
	Paper Birch	2		10	Ta	ng Alder	Low	5 - 10 feet	5 - 10 feet	2003 which was brought about by severe windthrow from the 7/21/2002
	Red Maple	5		8	Quak	king Aspen	Medium	10 - 20 feet	10 - 20 feet	windstorm. Jim Carey was salvaging his own timber in Sec 1 of T46N,
	Red Pine	23		16	Bigto	oth Aspen	Low	10 - 20 feet	10 - 20 feet	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
	Balsam Fir	10	Seedling	8	Blac	k Spruce	Low	10 - 20 feet	10 - 20 feet	River West Salvage" was issued to salvage all trees which were broken
	Black Spruce	12		8	Ва	lsam Fir	Medium	10 - 20 feet	10 - 20 feet	or uprooted by the storm. Field check in May 2005 showed that most of
	Tamarack	10		8	Wh	nite Pine	Low	10 - 20 feet	10 - 20 feet	the damage and salvage was on the west end of the stand.
	White Pine	38		16 88	Hazeln	ut (Beaked)	Low	10 - 20 feet	10 - 20 feet	
8	429 - Mixed	•		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		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 - Nat	ural Mixed	Pine F	Poletimber Well	42.2	35	51-80	N/A		Mixed stand of mostly conifer. There is larger pine in the overstory with a $\uppi$ mix of mostly spruce and fir in the understory. Much of the spruce and fir
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	was killed by spruce budworm. The stand borders the wetlands
	Red Maple	5		7	Ва	lsam Fir	Low	5 - 10 feet	5 - 10 feet	containing the black river. The stand needs some time to grow before a
	Red Pine	15		13 95			<u> </u>			harvest.
	White Pine	13		18 95						
	Jack Pine	40	Pole	4 35						
	Quaking Aspen	7		6						
	White Spruce	10	Pole	4						

Balsam Fir

10

4

Pole



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

Quaking Aspen

30

Seedling

6

45



Stand	d Level 4 C	over Type		Size D	ensity	Acres	Stand Age E	BA Range	Managed S	ite	General Comments
13	42380 - Non Pine U	Jpland Coni	fer, Mixed	Sapling	Medium	n 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
	Canopy Species	% Cover	Size Class	s DB	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	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-
	Red Maple	5	Log	3		Wi	llow spp.	Low	5 - 10 feet	5 - 10 feet	97-01 Black river north sale).
	Quaking Aspen	20	Log	4	27	Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet	
	Tamarack	10	Pole	3		Hazelr	nut (Beaked)	Low	5 - 10 feet	5 - 10 feet	
	Paper Birch	5	Sapling	5							-
	White Spruce	20	Pole	3	27						
	Black Spruce	20	Pole	3	27						
	Balsam Fir	10	Pole	3	27						
	White Pine	5	Sapling	6							
14	6122 - B	lack Spruce	; F	Poletimbe	r Mediu	ım 13.0	83	51-80	N/A		2025 - stand could be treated but it may be better to wait 10 years when
	Canopy Species	% Cover	Size Class	s DB	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	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
	Tamarack	45		9		Blad	ck Spruce	Low	5 - 10 feet	5 - 10 feet	mostly black spruce/tamarack. Sparse on fringes.
	Black Spruce	55	Seedling	7	83	Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet	
		, ,				Ta	amarack	Low	5 - 10 feet	5 - 10 feet	
16	6121 -	Tamarack		Poletim	oer Wel	I 4.8	57 L	Jnspecified	N/A		2025 - stand of smaller, pole sized tamarack and spruce. Looks
	Canopy Species	% Cover	Size Class	s DB	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	healthy.Area of better site index tamarack and spruce then surrounding bog manage with adjacent island in the future.
	Tamarack	60	Sapling	5	57	Blad	ck Spruce	Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	40	Sapling	5		Ta	amarack	Low	5 - 10 feet	5 - 10 feet	
						Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
17	4319 - Mixed	d Upland Fo	rest	Poletim	oer Wel	l 38.2	36	51-80	N/A	1	Stand of mostly pole sized trees. Mostly aspen with a broad mix of other
	Canopy Species	% Cover	Size Class	s DB	H Age						species. Everything looks healthy. There is a road from the power line that goes all the way to the west end of the stand by the beaver flooding.
	Black Spruce	5	Pole	4	36						that good all the may to the west one of the stand by the board hesting.
	Jack Pine	8	Seedling	5							
	Red Pine	2		14							
	Quaking Aspen	33	Sapling	5	36						
	Paper Birch	2	Seedling	5							
	Red Maple	5	Seedling	5							
	Bigtooth Aspen	4	Sapling	5							
	Tamarack	8	Sapling	5							
	White Pine	2		14							
	White Spruce	12	Seedling	6							
	Black Cherry	2	Pole	4							
	Balsam Fir	17	Sapling	5	36						



Stand	Level 4 C	over Type	ype Size Density Acres Stand Age BA Range Managed Site  ved Deciduous Sawtimber Medium 85.9 95 51-80 N/A		ite	General Comments				
18	42260 - Natural Pi	ine, Mixed D	eciduous Sa	wtimber	Medium	85.9 95	51-80	N/A	<b>\</b>	2024 - after the harvest in 2008, the stand js coming back to mostly rec
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	understory as well. Stand was badly damaged (esp. the pine) and
	Red Maple	23		2	17	Sugar Maple	Medium	10 - 20 feet	10 - 20 feet	salvaged in winter of 2002-03 (TS#128-02-01- Minerick Logging, Inc., a
	Red Pine	20		16		Balsam Fir	Low	10 - 20 feet	10 - 20 feet	scale sale) as a result of the windstorm of 7\21\2002. Van Riper State
	Paper Birch	5		10		Bigtooth Aspen	Medium	10 - 20 feet	10 - 20 feet	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, &
	White Pine	50		18	95	Paper Birch	Low	10 - 20 feet	10 - 20 feet	#01-86-02. We wish to manage this stand for pine, but currently, red
	Quaking Aspen	2		2		White Spruce	Medium	10 - 20 feet	10 - 20 feet	maple is the predominant species. Stand cut by Triest Forest Products
						Red Maple	Medium	10 - 20 feet	10 - 20 feet	in the spring of 2008, #32-109-07-01.
						Quaking Aspen	Low	10 - 20 feet	10 - 20 feet	
19	4130	- Aspen	S	Sapling N	/ledium	60.9 4		N/A	1	cut by JM longyear under black river fir 32-012-20.
	Canopy Species	% Cover	Size Class	DBH	Age					
	Quaking Aspen	85	Log	1	4					
	Red Maple	15	Log	1	4					
20	6229 - Mixed	l Lowland S	hrub	Nor	ne	35.0		No		Tag alder and other shrubs at high density. Black river is the middle of the stand.
21	320 - Up	oland Shrub		Nor	ne	2.5		No		Powerline opening. High ground and rocky.
22	500	- Water		Nor	ne	1.2		No		Black River
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
	White Pine	5		18		White Pine	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	20	Sapling	7	68	White Spruce	Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	10	Sapling	7			-		'	-
	White Spruce	50	Sapling	7	68					
	Paper Birch	5	Seedling	8						
	Red Pine	5		18						
	Red Maple	5	Sapling	7						
23	42220 - Na	tural Jack P	ine Po	letimbei	Medium	7.0 36	51-80	N/A	\	Mostly a jack pine stand with a mix of other species. Was commercially
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	cut between Mar.1988 & Sept.1989 by Jim Carey Logging, permit #21 87-01, "Black River Block".
	Jack Pine	60	Seedling	6	36	Paper Birch	Low	10 - 20 feet	10 - 20 feet	,
	Quaking Aspen	10	Seedling	6		Balsam Fir	Low	10 - 20 feet	10 - 20 feet	
	Red Maple	5	Seedling	6		Tag Alder	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	5	Log	2						_
	Black Spruce	15	Seedling	6						
	Tamarack	5	Seedling	5						
24	122 - Roa									



Stand	Level 4 Co	over Type		Size Dens	ity	Acres S	tand Age B	A Range	Managed Si	te	General Comments
25	6122 - BI	ack Spruce	e l	Poletimber	Well	23.2	63 Ur	nspecified	N/A		Stand is mostly 6-8" spruce with some tamarack mixed in. Patchy tag
	Canopy Species	% Cover	Size Class	DBH A	\ge	Sub-Cano	py Species	Density	Avg. Height	Size	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
	Tamarack	13	Sapling	5		Paper	Birch	Low	5 - 10 feet	5 - 10 feet	Origin was 1962
	Balsam Fir	2	Sapling	6		Red I	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 - Pin	e, Aspen M	1ix I	Poletimber	Well	61.6	35	51-80	N/A		Pole sized stand. Mixed upland species with some lower pockets. The
	Canopy Species	% Cover	Size Class	DBH A	\ge						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
	Red Pine	10		14	95						during the last harvest and the andorstory is the younger age
	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 - Natı	ıral Mixed I	Pine Sa	awtimber M	ledium	2.3	85	1-50	N/A		Large pine in the overstory and small conifer underneath. The north side
	Canopy Species	% Cover	Size Class	DBH A	\ge	Sub-Cano	py Species	Density	Avg. Height	Size	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
	Paper Birch	3	Seedling	8		Balsa	m Fir	Low	5 - 10 feet	5 - 10 feet	pine remain. Probably more valued for aesthetics than timber.
	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		40	85						
	Dod Monlo			16	00						
	Red Maple	7		10	00						
28	4319 - Mixed		prest			1.9	15 lr	nmature	N/A		
28	4319 - Mixed	l Upland Fo		10 Sapling W	/ell	1.9	15 lr	mmature	N/A		2024 - north half on the stand was not cut. There is an area of mature
28		l Upland Fo	orest  Size Class  Log	Sapling W	/ell	1.9	15 Ir	mmature	N/A		black spruceStand harvested in winter/pre-breakup 2010 TS#32-108-
28	4319 - Mixed	Upland Fo	Size Class	Sapling W	/ell	1.9	15 lr	mmature	N/A		
28	4319 - Mixed Canopy Species Quaking Aspen	Upland Fo	Size Class	Sapling W	/ell	1.9	15 lr	mmature	N/A		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
28	4319 - Mixed Canopy Species Quaking Aspen Paper Birch	Upland Fo	Size Class Log Log	Sapling W  DBH A	/ell	1.9	15 lr	mmature	N/A		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
28	4319 - Mixed Canopy Species Quaking Aspen Paper Birch White Spruce	W Cover	Size Class  Log  Log  Log	Sapling W  DBH A  1  1  1	/ell	1.9	15 lr	mmature	N/A		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
28	4319 - Mixed  Canopy Species  Quaking Aspen  Paper Birch  White Spruce  White Pine	Upland Fc	Size Class  Log  Log  Log	Sapling W  DBH A  1  1  1  1  1	/ell	1.9	15 Ir	mmature	N/A		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
28	4319 - Mixed  Canopy Species  Quaking Aspen  Paper Birch  White Spruce  White Pine  Red Pine	Upland Fc	Log Log Log Log Log Log	10 Sapling W DBH A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/ell	1.9	15 lr	mmature	N/A		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
28	4319 - Mixed Canopy Species Quaking Aspen Paper Birch White Spruce White Pine Red Pine Balsam Fir	Upland Fc	Log Log Log Log Log Log	10 Sapling W DBH A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/ell	1.9	15 lr	mmature	N/A		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
28	4319 - Mixed Canopy Species Quaking Aspen Paper Birch White Spruce White Pine Red Pine Balsam Fir White Pine	Upland Fc	Log Log Log Log Log Log	10 Sapling W DBH A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/ell	1.9	15 lr	mmature	N/A		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



Stand	Level 4 C	over Type		Size Densit	y	Acres	Stand Age E	BA Range	Managed Si	te	General Comments	
29	4319 - Mixed			Sapling We	ell_	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	
	Canopy Species	% Cover	Size Class	DBH Ag	je						here from 7/21/02 storm. NE corner of Sec 6 is a new County	
	White Spruce	15	Log	2							remonumentation corner set in 2002. Private driveway leading to a	
	Quaking Aspen	15	Log	2 15	5						camp southeast of the Sec corner crosses onto State slightly.	
	Red Pine	2		18								
	Red Maple	25	Log	2 15	5							
	White Pine	3		18								
	Bigtooth Aspen	10	Log	3								
	Black Cherry	4	Log	1								
	Black Spruce	8	Log	1								
	Balsam Fir	13		3 15	5							
	White Pine	5	Log	1								
30	42340 - Upl	and Spruce	Fir Po	oletimber Me	dium	12.3	40	1-50	N/A		2024 - most timber is small pole sized. There are some larger trees left	
	Canopy Species	% Cover	Size Class	DBH Ag	je :	Sub-Can	opy Species	Density	Avg. Height	Size	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	
	White Pine	5		14		White	e Spruce	Low	5 - 10 feet	5 - 10 feet	Jim Carey Logging in late Fall of 2002, permit #102-03-02, "Black	
	White Spruce	30		7 40	)	Bals	sam Fir	Medium	5 - 10 feet	5 - 10 feet	River Salvage". Jim was already cutting the adjacent private (James	
	Red Pine	5		14							<sup>1</sup> 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	
	Jack Pine	15		7							to the oldest, largest trees, thus what is left are younger age class and	
	Balsam Fir	30		7 40	)						we can manage this residual type in place, expecting to get some	
	Quaking Aspen	10		5 40	)						natural regeneration of existing species as a result of the cutting and soil disturbance.	
	Red Maple	5		7							uistui bai ice.	
31	429 - Mixed l	Jpland Coni	fers Po	oletimber Me	dium	17.3	105	1-50	N/A		2024- narrow strip of mostly large white pine and a mix of species	
	Canopy Species	% Cover	Size Class	DBH Ag	ie :	Sub-Can	opy Species	Density	Avg. Height	Size	underneath along the river. Was commercially cut in 1956-57 (permit #13-56A & #3-57) by Uno Kemppainen (who lived just northwest of the	
	Black Spruce	10	Sapling	7			e Spruce	Medium	5 - 10 feet	5 - 10 feet	sale where Loren Gray lives now).	
	Paper Birch	5	Seedling	8		Wh	ite Pine	Low	5 - 10 feet	5 - 10 feet	,	
	White Spruce	10	Sapling	7 68	3						1	
	Red Pine	5		18								
	White Pine	50		18 10	5							
	Balsam Fir	15	Sapling	7 68	3							
	Red Maple	5	Sapling	7								
32	· · · · · · · · · · · · · · · · · · ·	lder/Willow		None		2.6			No		Lowland grass and shrubs with some trees on the edge	
32	6220 - A	lder/Willow ack Spruce		None Poletimber W	Vell	1.2	75	81-110	No N/A		This stand was part of stand 28. It was not treated during the timber sale	
	6220 - A	ack Spruce		Poletimber W			75	81-110			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	
	6220 - A 6122 - Bl	ack Spruce	Size Class	Poletimber W	je		75	81-110			This stand was part of stand 28. It was not treated during the timber sale	
	6220 - A	ack Spruce		Poletimber W	je		75	81-110			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	

Stand	tand Level 4 Cover Type				nsity	Acres	Stand Age	BA Range	Managed S	ite	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
	Canopy Species	% Cover	Size Class	DBH	Age						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
	Tamarack	7	Log	2							Jim Carey Logging, permit #21-87-01, "Black River Block". All cherry, 1
	Paper Birch	5	Log	2							& 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
	White Pine	5		14							present. Some aspen in north & west sides of stand, and also some
	Quaking Aspen	45	Log	3	36						tamarack near swamp edge on east.
	Balsam Fir	23	Log	2							
	Red Maple	3	Log	2							
	White Spruce	7	Log	2							
	Red Pine	5		14							
35	6220 - A	lder/Willow		Non	е	5.7			No		Draining the middle runs south
36		iferous Lowland Forest						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
	Canopy Species		Size Class		Age		nopy Specie		Avg. Height	Size	Holli Forest Products, Inc., permit #12/77A, "Fawn's Foot Block". All
	Paper Birch	3	Pole	3			ut (Beaked)	Low	5 - 10 feet	5 - 10 feet	merchantable pulpwood was cut except for pine which was marked.
	Red Maple	2	Log	3		Ta	ig Alder	Low	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	3	Seedling	5							
	Bigtooth Aspen	5	Pole	3							
	Black Spruce	24	Seedling	5	45						
	White Pine	8		14							
	Balsam Fir	7	Log	3							
	Red Pine	20		14							
	White Spruce	3	Log	3							
	Tamarack	25	Seedling	6	45						
37	6120 - Lo	wland Ceda	r Po	oletimber	Mediun	n 9.2	88	1-50	N/A		Stand is about half cedar and half tamarack. The cedar trees are quite $_{7}$ short and there is a layer of cedar regeneration in the understory that is
	Canopy Species		Size Class	DBH	_	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	not present in stand 4.
	Tamarack	40		9	88	Northern	White Cedar	Low	5 - 10 feet	5 - 10 feet	'
N	orthern White Cedar	50		8	88	Ta	ig Alder	Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	10	Seedling	6							
39	6121 -	Tamarack		Poletimbe	er Well	5.1	36	1-50	N/A	\	
	Canopy Species		Size Class	DBH			nopy Specie		Avg. Height	Size	
	Tamarack	76	Sapling	5	36	Ta	ig Alder	Low	< 5 feet	< 5 feet	
	Black Spruce	5	Pole	4	36						
	Balsam Fir	17	Sapling	5	36						
	Paper Birch	2	Seedling	5							



Canopy Species Tamarack White Pine Black Spruce Quaking Aspen 6229 - Mixed	3 15 80 2	Size Class Seedling Seedling  nrub	DBH Age 7 14 7 100 10 None	6.6 100  Sub-Canopy Species Black Spruce White Pine Red Maple Tamarack  48.8  Sub-Canopy Species Tag Alder	51-80  Density  Low  Low  Low  Density  Low	N/A  Avg. Height  5 - 10 feet  5 - 10 feet  5 - 10 feet  5 - 10 feet  No  Avg. Height	5 - 10 feet	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.  Low density trees with marsh grass and tag alder. The stream starts
Tamarack White Pine Black Spruce Quaking Aspen 6229 - Mixed 6122 - Bl Canopy Species White Pine	3 15 80 2 Lowland Shack Spruce % Cover	Seedling Seedling  Po	7 14 7 100 10 None	Black Spruce White Pine Red Maple Tamarack  48.8  Sub-Canopy Species	Low Low Low Low Density	5 - 10 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet No	5 - 10 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	adjacent to the the creek.
White Pine Black Spruce Quaking Aspen 6229 - Mixed 6122 - Bl Canopy Species White Pine	15 80 2 Lowland Shack Spruce	Seedling	14 7 100 10 None	White Pine Red Maple Tamarack  48.8  Sub-Canopy Species	Low Low Low	5 - 10 feet 5 - 10 feet 5 - 10 feet No	5 - 10 feet 5 - 10 feet 5 - 10 feet	
Black Spruce Quaking Aspen 6229 - Mixed 6122 - Bl Canopy Species White Pine	80 2 Lowland Shack Spruce % Cover	nrub	7 100 10 None	Red Maple Tamarack  48.8  Sub-Canopy Species	Low Low	5 - 10 feet 5 - 10 feet No	5 - 10 feet 5 - 10 feet	Low density trees with marsh grass and tag alder. The stream starts
Quaking Aspen 6229 - Mixed 6122 - Bl Canopy Species White Pine	2 Lowland Stack Spruce % Cover	nrub	None	Tamarack 48.8 Sub-Canopy Species	Low	5 - 10 feet No	5 - 10 feet	Low density trees with marsh grass and tag alder. The stream starts
6229 - Mixed 6122 - BI Canopy Species White Pine	Lowland Shack Spruce	Po	None	48.8 Sub-Canopy Species	Density	No		Low density trees with marsh grass and tag alder. The stream starts
6122 - BI Canopy Species White Pine	ack Spruce	Po		Sub-Canopy Species				Low density trees with marsh grass and tag alder. The stream starts
Canopy Species White Pine	% Cover		letimber Medium			Avg. Height	0:	
Canopy Species White Pine	% Cover		letimber Medium	Tag Alder	Low		Size	from the east and works west to the black river. There are several large beaver dams that have created floodings before the stream reaches to
Canopy Species White Pine	% Cover		letimber Medium		LOW	5 - 10 feet	5 - 10 feet	black river.
White Pine		Size Class		4.7 100	51-80	N/A	`	This stand is the buffer between aspen and the lowland stand. The st has several rock bluffs and has a north aspect. The trees look healthy
	25	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	except for the fir that has been killed by budworm.
Quaking Aspen			16	Black Spruce	Low	5 - 10 feet	5 - 10 feet	
	3	12		Tag Alder	Low	5 - 10 feet	5 - 10 feet	
Tamarack	7	Seedling	7					
Black Spruce	65	Seedling	7 100					
429 - Mixed l	Jpland Coni	fers S	Sawtimber Well	23.8 88	81-110	N/A		2025 - mostly upland stand with some lower spots with tag alder. Tre $_{\rm I}$ are in tough shape from budworm and wind damage. Most fir and so
Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	spruce is dead. The understory has a good amount of live fir that will
Tamarack	2	Seedling	8	Balsam Fir	Medium	5 - 10 feet	5 - 10 feet	take over in the open areas.
White Pine	30		18 88	White Pine	Medium	< 5 feet	< 5 feet	
Red Pine	15		18					
Black Spruce	15	Seedling	8					
Balsam Fir	10	Seedling	8 45					
Red Maple	25		10					
Paper Birch	3		10					
429 - Mixed l	Jpland Coni	fers S	Sawtimber Well	1.2 88	51-80	N/A	\	A small high spot along the river surrounded by lowland. Looks simila $_{\mbox{\scriptsize I}}$ stand 7 and 45 nearby.
Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	stand 7 and 45 nearby.
Bigtooth Aspen	5		10	White Pine	Low	5 - 10 feet	5 - 10 feet	
Red Pine	15		17	Black Spruce	Medium	5 - 10 feet	5 - 10 feet	
Black Spruce	15		8		,			
White Pine	30		18 88					
Balsam Fir	10		8					
Paper Birch	5		10					
Quaking Aspen	10	Seedling	8					
Red Maple	10	Seedling	8					
3	429 - Mixed U Canopy Species Tamarack White Pine Red Pine Black Spruce Balsam Fir Red Maple Paper Birch  429 - Mixed U Canopy Species Bigtooth Aspen Red Pine Black Spruce White Pine Balsam Fir Paper Birch Quaking Aspen Red Maple	429 - Mixed Upland Conic           Canopy Species         % Cover           Tamarack         2           White Pine         30           Red Pine         15           Black Spruce         15           Balsam Fir         10           Red Maple         25           Paper Birch         3           429 - Mixed Upland Conic         Conic           Canopy Species         % Cover           Bigtooth Aspen         5           Red Pine         15           Black Spruce         15           White Pine         30           Balsam Fir         10           Paper Birch         5           Quaking Aspen         10           Red Maple         10	429 - Mixed Upland Conifers  Canopy Species	429 - Mixed Upland Conifers         Sawtimber Well           Canopy Species         % Cover Size Class         DBH Age           Tamarack         2         Seedling         8           White Pine         30         18         88           Red Pine         15         18           Black Spruce         15         Seedling         8           Balsam Fir         10         Seedling         8         45           Red Maple         25         10         10         10           Paper Birch         3         10         10         10           Canopy Species         % Cover Size Class         DBH Age         10         10         10           Canopy Species         % Cover Size Class         DBH Age         10	A29 - Mixed Upland Conifers   Sawtimber Well   23.8   88	A29 - Mixed Upland Conifers   Sawtimber Well   23.8   88   81-110	A29 - Mixed Upland Conifers   Sawtimber Well   23.8   88   81-110   N/A	A29 - Mixed Upland Conifers   Sawtimber Well   23.8   88   81-110   N/A

ort 7 – Stands



Compartment: 220

Year of Entry: 2027

Stan	l Level 4 C	Cover Type		ype Size Density			Stand Age	BA Range	Managed Site		General Comments			
56	42340 - Upl	Sapling Well		5.6	25	Immature	N/A		2025 - stand is nearing pole size. There is a fair amount of budworm					
	Canopy Species	% Cover	Size Class	DBH	l Age						damage but it is filling back in where it is sparse. Some moose browse present on hardwood species. Was commercially harvested in Jan-Ma			
	Tamarack	5	Log	3							2000 as part of Holli Forest Products, Inc, permit #9-97-01, "Black River			
	Black Spruce	10	Log	3							South Sale"			
	Quaking Aspen	10	Log	4	25									
	White Spruce	20	Log	4	25									
	White Pine	5		12										
	Red Pine	5		12										
	Bigtooth Aspen	15	Log	4										
	Balsam Fir	30	Pole	4	25									
57	<u> </u>	6 - Aspen, Mixed Conifer			Poletimber Well		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,			
	Canopy Species		Size Class		l Age		nopy Species	Density	Avg. Height	Size	"Island Sale", which wasn't completed till 3/31/80 and included the			
	Quaking Aspen	45	Seedling	6	45		k Cherry	Low	10 - 20 feet	10 - 20 feet	adjacent high ground west of this stand. Permit #10-80 was a			
	Bigtooth Aspen	15	Sapling	5			low spp.	Low	5 - 10 feet	5 - 10 feet	negotiated sale whereas #2/76A was bid I believe. The same road system of frozen ice roads were used for both sales. Four access			
	White Spruce	5	Sapling	5			Isam Fir	Low	10 - 20 feet	10 - 20 feet	points were used for this road system over the coarse of 6 yrs or so.			
	Paper Birch	5	Seedling	5			ut (Beaked)	Low	5 - 10 feet	5 - 10 feet	The northwest access was through Reino Nyback's in the NW corner of			
	White Pine	7		12	L	Та	g Alder	Low	5 - 10 feet	5 - 10 feet	Sec 12, T46N, R29W which leads to CoRd FW. The southwest access was through Sec 13, T46N, R29W through the three corporate forties			
	Red Maple	5	Pole	4							on the north side of Sec 13 which will lead southwesterly past Ozzie			
	Red Pine	8		14							Altabello's camp to reach CoRd FF also called the Perch Lake Road.			
	Balsam Fir	5	Pole	4							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			
	Black Spruce	5	Seedling	5							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.			
58	4136 - Asper	Aspen, Mixed Conifer		Poletimber Well		26.9	45	1-50	N/A	4	2025 - stand will likely be ready for harvest next entry. The north end of			
	Canopy Species	% Cover	Size Class		l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	maple. The middle is lowland with spruce and tamarack. Most trees in			
	Red Pine	5		14		Та	g Alder	Low	5 - 10 feet	5 - 10 feet	the stand are merchantable but will benefit from another 10 years of			
	Bigtooth Aspen	15	Sapling	5			rry (spp.)	Low	5 - 10 feet	5 - 10 feet	growth. The fir in the stand is mostly dead from budworm. Was commercially cut in Jan-March 1980 by Holli Forest Products, Inc.,			
	Balsam Fir	10		5		Hazeln	ut (Beaked)	Low	5 - 10 feet	5 - 10 feet	permit #10/80. A salvage of spruce budworm damage sale. All			
	White Spruce	5	Seedling	6		Re	d Maple	Low	5 - 10 feet	5 - 10 feet	merchantable trees were cut except for pine which were marked.			
	Quaking Aspen	30	Seedling	7	45						Access by frozen winter road system.			
	Jack Pine	10	Seedling	8										

Red Maple

Black Spruce

23

2

Log

9

3

Stand	Level 4 C	Level 4 Cover Type Size Density Acres Stand Age BA Range				A Range	Managed S	ite	General Comments				
59	6224 - <sup>-</sup>	Treed Bog		Non	е	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 coarse 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 though 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 - U	42320 - Upland Spruce			Poletimber Mediu		45	1-50	N/A	١	Was commercially cut in Jan-March 1980 by Holli Forest Products, Inc., permit #10/80. All merchantable trees were cut except for pine which		
	Canopy Species	% Cover				Sub-Canopy	y Species	Density	Avg. Height	Size	were marked. Access by frozen winter road system.		
	Black Spruce	75	Seedling	6	45	Hazelnut (E		Low	5 - 10 feet	5 - 10 feet	, , , , , , , , , , , , , , , , , , ,		
	Tamarack	5	Seedling	5		Balsam		Medium	5 - 10 feet	5 - 10 feet			
	White Pine	3	Seedling	7		Black Sp	pruce	Low	5 - 10 feet 5 -	5 - 10 feet			
	Balsam Fir	10	Sapling	5									
	Quaking Aspen	2	Seedling	5									
	Paper Birch	3	Seedling	6									
	Red Pine	2	Seedling	6									
62	429 - Mixed	Jpland Cor	nifers S	Sapling M	edium	1.9	45	1-50	N/A	\	Was commercially cut in Jan-March 1980 by Holli Forest Products, Inc		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy	y Species	Density	Avg. Height	Size	were marked. Access by frozen winter road system.		
	Red Pine	25		8		Red P	ine	Trace	5 - 10 feet	5 - 10 feet	,		
	Paper Birch	5	Pole	4		Tamar	ack	Low	5 - 10 feet	5 - 10 feet			
	Black Spruce	25	Seedling	6	45	Balsam	n Fir	Low	5 - 10 feet	5 - 10 feet			
	White Pine	7		16									
	Douglas Fir	33		7	45								
	Tamarack	5	Pole	4									
63	42210 - Na	tural Red P	Pine S	Sawtimber Well		1.5	88	81-110	N/A	1	2025 - areas of thick thick spruce and balsam fir in the understory. Red		
	Canopy Species	% Cover	Size Class			Sub-Canopy	y Species	Density	Avg. Height	Size	pine regeneration where the understory is open.Tiny island of high ground in treed bog, sandy soil - natural red pine. System of frozen		
	Red Pine	100		14	88	White Sp	pruce	High	10 - 20 feet	10 - 20 feet	winter roads went right by this island.		
		'		'		Paper E	Birch	Low	10 - 20 feet	10 - 20 feet			
						Balsam	n Fir	High	10 - 20 feet	10 - 20 feet			
						Red P	ine	Low	5 - 10 feet	5 - 10 feet			

Gwinn Mgt. Unit



Stand	Level 4 C		Size Density	Acres	Stand Age B	A Range	Managed S	ite	General Comments	
64	429 - Mixed U	429 - Mixed Upland Conifers			4.5	49	51-80	N/A		2025 - most trees are medium sized poles and need another 10 years of
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	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
	White Spruce	18	Seedling	5	Hazelı	nut (Beaked)	Low	5 - 10 feet	5 - 10 feet	to the south) cut in 1974-76 by Holli Forest Products, Inc, permit #14-72-
	Bigtooth Aspen	6	Seedling	7	Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet	01, "West Branch Creek Block". Wood from this sale was hauled out
	Balsam Fir	20	Seedling	6 49						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
	Quaking Aspen	18	Seedling	7						Makela in 1971, but went uncut as his business went into receivership.
	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						
71	622 - Lov	vland Shrub		None	54.5			No		Low doggy land braided with drains
72	42290 - Natu	ural Mixed P	Pine	Sawtimber Well	7.3	88	81-110	N/A	<b>.</b>	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 l	Jpland Coni	ifers	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						some large overstory pine and a few large aspen still in the overstory.
	Jack Pine	10		2 17						Stand cut in spring of 2008 by Triest Forest Products T-Sale #32-109-07-
	Balsam Fir	20		3						01.
	Red Maple	10	Pole	2						
	White Spruce	25		3 17						
	White Pine	15		2						
	Quaking Aspen	10		2						

Report 7 - Stands Gwinn Mgt. Unit



Stand	Level 4 Cover Type  6122 - Black Spruce			Size Density		Acres Stand Age BA Range		Managed S	ite	General Comments
80				Poletimber Well	4.1	78 U	Inspecified	N/A		Black spruce stand with a small creek running though it. Mixed sizes of
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	spruce from 4-10" DBH.
	Paper Birch	3	Sapling	7	Т	ag Alder	Low	5 - 10 feet	5 - 10 feet	
	White Pine	2		14						_
	Balsam Fir	2	Sapling	7						
	White Spruce	1	Sapling	7						
	Black Spruce	85		7 78						
	Tamarack	6	Seedling	8						
	Red Pine	1		14						
83	6220 - A	Alder/Willow		None	2.4			No		Lowland stand with a few scattered trees
84	4134 - Asp	en, Spruce/	Fir	Sapling Well	20.0	23	Immature	N/A	\ \	2024 - Aspen stand. Mostly 3-4" diameter. Medium density spruce and
	Canopy Species	% Cover	Size Class	DBH Age						fir in the understory. Was commercially cut in Dec 2001 thru Feb 2002 by John Heidtman Logging, Inc., permit #118-97-01, "Pine
	White Spruce	5		2						Patches Quill Sale". Access (frozen winter road) was from the
	Balsam Fir	15	Log	1 23						northwest across Loren Gray's property. Only marked pine was cut, and
	Red Pine	5		18						all cherry & cedar was left (no oak present). All merchantable aspen, birch, maple, spruce & fir was cut. The windstorm of 7/21/02 virtually
	Red Maple	5		2						wiped out the rsidual pine here. Less than 10 sq.ft/acre left. It was not
	Black Spruce	5		2						salvaged due to winter access needed plus crossing private land. With
	White Pine	5		18						better access it would have been salvaged. Currently the stand has patchy aspen regen, some red maple stump sprouts, and sparse
	Bigtooth Aspen	10	Log	1						spruce/fir regen. We need to preferably develop access from the east
	Quaking Aspen	50		3 23						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.
88	6224 -	Treed Bog		None	2.8			No		Lowland stand with scattered spruce, tamarack, and white pine. More trees further east