

# **Compartment Review Presentation**

**Gwinn Forest Management Unit** 

Compartment 32226
Entry Year 2022
Acreage: 1,320

**County Marquette** 

Management Area: Chain Lakes Moraine

Revision Date: 2020-07-23

Stand Examiner: Jason Caron

**Legal Description:** 

T46N R28W, Sections 18, 19, 30, and 31.

#### **Identified Planning Goals:**

Planning goals for this compartment are to provide a sustainable flow of timber products while also improving wildlife habitat. Timber products are primarily for fiber production (pulpwood). Wildlife habitat is being promoted primarily in early successional stages, with some seral stage habitat being provided in the white and red pine cover types.

# Soil and topography:

Soils within this compartment fall into either the Kalkaska-Ishpeming-Rock Outcrop or the Rubicon-Keweenaw Association. These soils range from rock outcrop and very deep, gently rolling to very hilling somewhat excessively drained sandy soils (Kalkaska-Ishpeming) to very deep, gently undulating to very hilly, excessively drained and well drained sandy soils (Rubicon-Keweenaw). Minor soil compositions within the compartment also include Carbondale, Tawas, Deford, and Greenwood in the depressions and drainages, Keweenaw, Pelissier, Rubicon, Sayner and Waiska soils exist in areas similar to the Kalkaska and Ishpeming soils as do Sayner soils. These associations are well suited for timber management, with limitations being placed on road building due primarily to terrain. Topography is generally level to undulating.

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

Ownership within the vicinity of the compartment is primarily State with scattered private industrial and non-industrial landowners. This compartment is on the western edge of the major State landholdings in this part of the county. The abandoned Republic Mine is located approximately four to five miles west of the compartment. Two television broadcasting towers exist within the confines of the compartment. Land use is predominately woodland management, recreation and camps.

#### **Unique Natural Features:**

### Archeological, Historical, and Cultural Features:

Two major television broadcasting towers are located within the confines of this compartment. The abandoned ELF line corridor also traverses this compartment.

#### **Special Management Designations or Considerations:**

### **Watershed and Fisheries Considerations:**

This compartment contains the West Branch of the Middle Branch of the Escanaba River and an unnamed stream whish serves as tributary to the West Branch of the Middle Branch of the Escanaba River. These waterbodies are both designated Type 1 trout streams less than 50' width. 300' buffers are recommended for these waterbodies in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

#### Wildlife Habitat Considerations:

Compartment 226 is found within the Chain Lakes Moraine Management Area; on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; 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.

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The following have been identified as featured species for the Chain Lakes Management Area: black bear, gray jay, pileated woodpecker, Northern goshawk, red crossbill.

## Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest active sand/gravel pit is roughly four miles to the northeast. There appears to be good potential for sand & gravel on the uplands within the compartment. Republic Mine, and other abandoned, historic iron mines, are located more than five miles to the northwest. There is no known metallic mineral potential beneath the compartment. There has been no documented past metallic mineral exploration within the compartment, and there is no current state mineral leasing activity in the area. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

#### Vehicle Access:

There is generally good vehicle access to this compartment. A few winter roads exist in the northern and central portion of the compartment on the wetter soils. County road's CF, CFA, and FFH/CCF provide access to the majority of this compartment.

#### **Survey Needs:**

No survey needs for this YOE.

#### **Recreational Facilities and Opportunities:**

There are no established recreational facilities in the compartment nor do any opportunities exist.

#### **Fire Protection:**

Several volatile fire communities exist within the compartment and surrounding landscape, predominantly jack pine, spruce-fir and some red and white pine. This compartment is west of the revised 581 Zone Dispatch boundary. Adequate roads exist for fire suppression activities.

#### **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

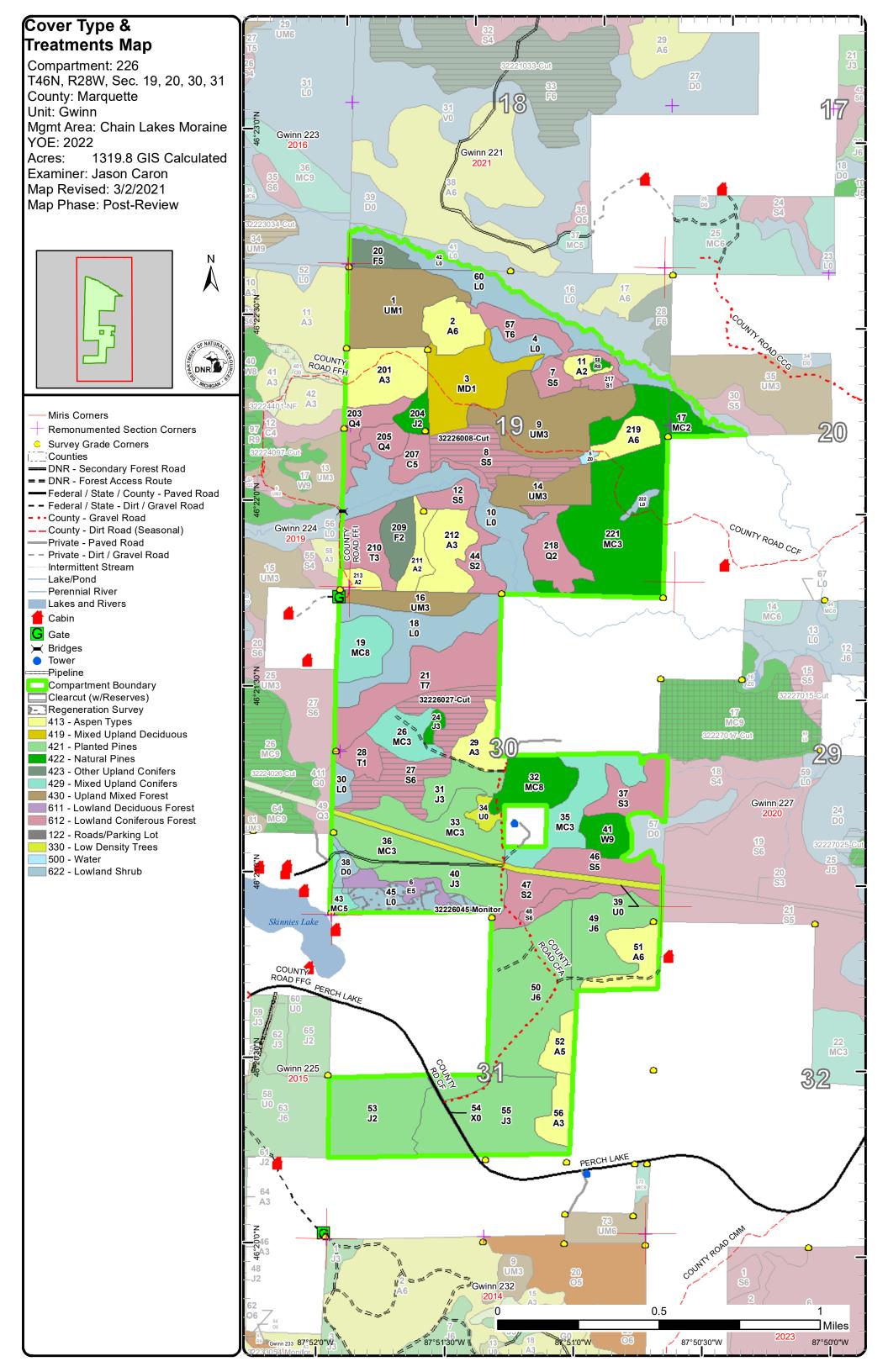
Compartment 226 Year of Entry 2022

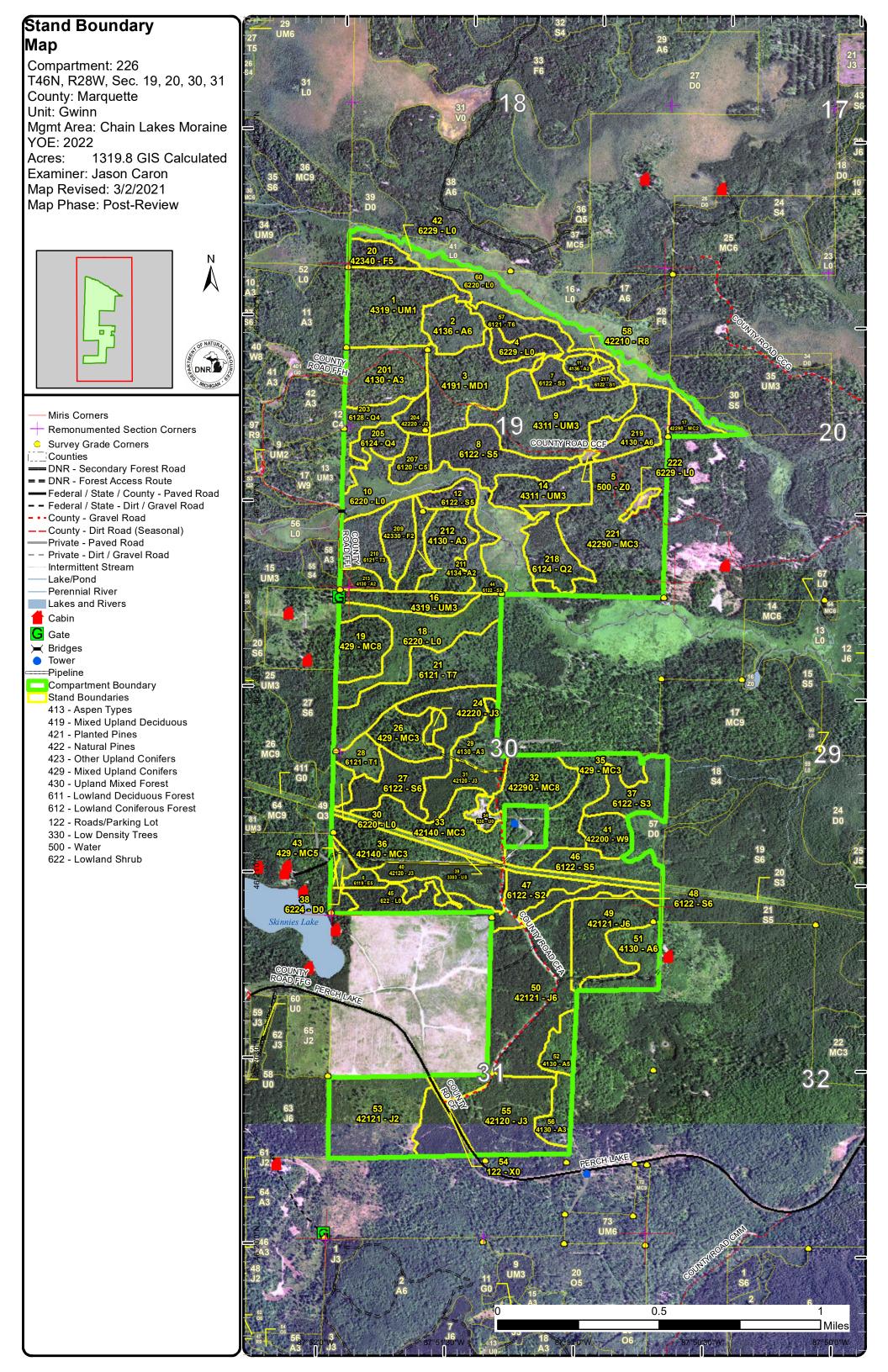
Jason Caron : Examiner

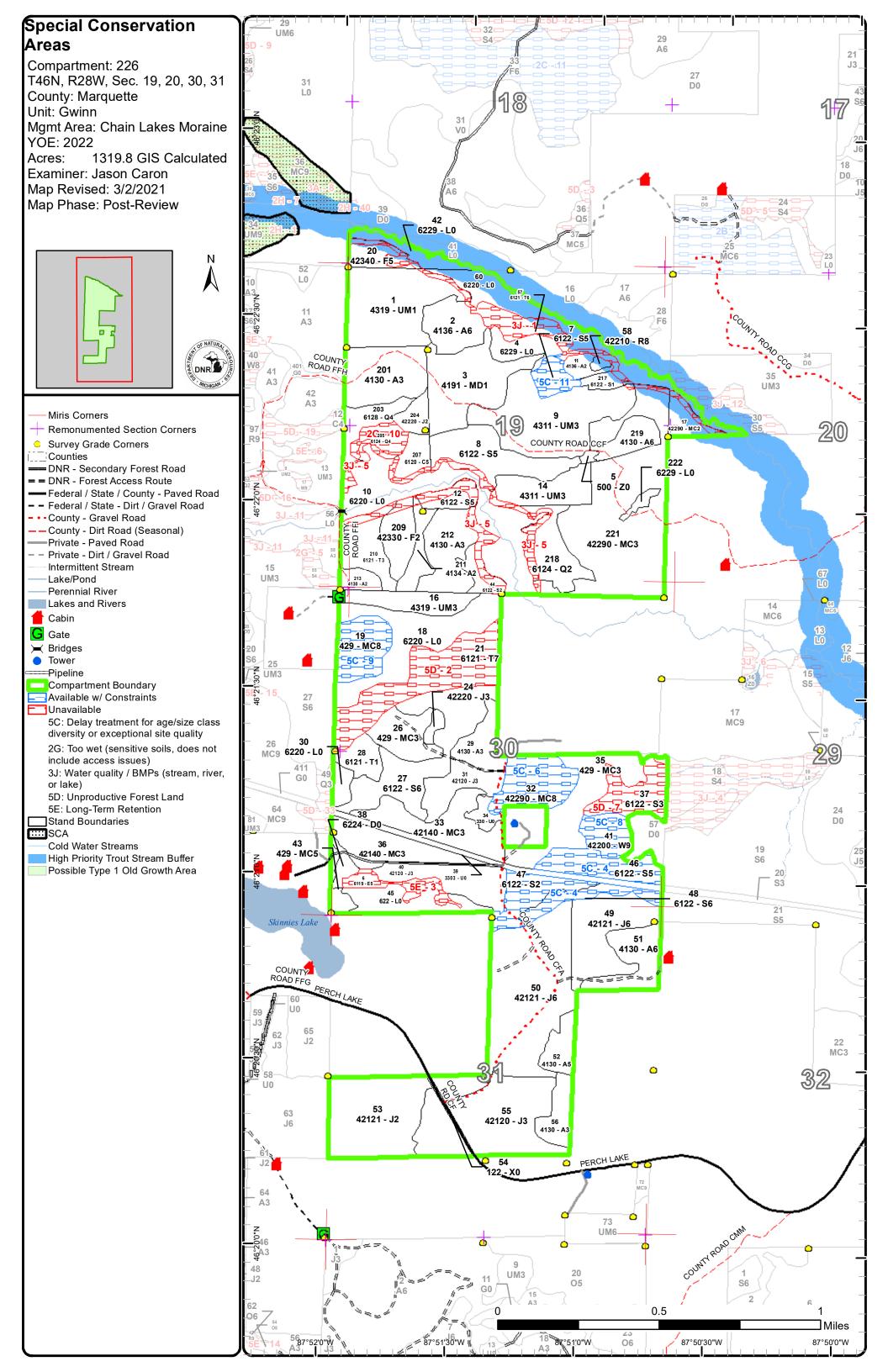


#### Age Class

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	/	/ * /	/ /	/ /	/ /	/	/ /	/	/ /	/ /	/ /	/	_ /	_ /	/	/ /	/ /	/ /	No. No.
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Aspen	0	0	12	56	68	9	0	0	0	0	0	0	0	0	0	0	0	0	144
Cedar	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	9
Jack Pine	0	0	53	91	40	71	0	0	0	0	0	0	0	0	0	0	0	0	254
Low-Density Trees	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	0	21	0	0	0	0	22	0	0	0	0	0	0	0	0	0	43
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8
Lowland Shrub	154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	153
Lowland Spruce/Fir	0	0	0	0	10	0	0	0	3	39	94	8	8	0	0	0	0	0	162
Mixed Upland Deciduous	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Natural Mixed Pines	0	0	0	8	90	0	0	0	0	0	0	0	0	0	0	0	22	0	120
Planted Mixed Pines	0	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Red Pine	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Tamarack	0	0	9	0	17	0	0	0	0	0	0	0	15	43	0	0	0	0	84
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Conifers	0	0	0	0	47	0	0	0	5	0	0	0	0	0	0	0	19	0	71
Upland Mixed Forest	0	44	0	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
Upland Spruce/Fir	0	0	0	0	13	0	0	0	0	9	0	0	0	0	0	0	0	0	22
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	12
Total	177	80	74	261	334	80	0	0	39	49	102	8	23	43	0	0	53	0	1319









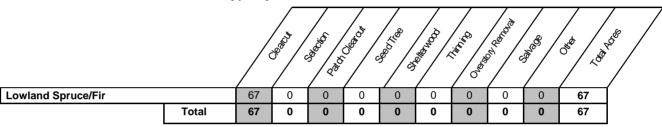
# **Report 2 – Treatment Summary**

# **Gwinn Mgt. Unit**

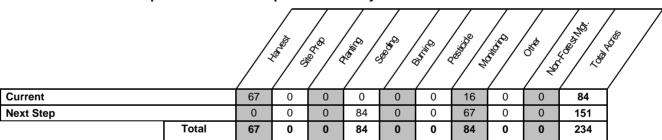
Compartment 226 Year of Entry: 2022 **Total Compartment Acres: 1,320 Acres of Harvest** 

> Commercial Harvest - 67 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

## **Cover Type by Harvest Method**



# **Proposed and Next Step Treatments by Method**



а n d

Compartment: 226 Year of Entry: 2022



										MICHIGAN
Treatment	Acres	Stand	Size	Stand	BA	Treatment	Treatment	Cover Type	Age	Habitat
Name		CoverType	Density	Age	Range	Type	Method	Objective	Structure	Cut

**Approved Treatments:** 

32226008-Cut 24.8 6122 - Black Spruce Poletimber Clearcut with 6122 - Black 111-Harvest Even-Aged No Medium 140 Retention Spruce

Prescription Clear cut with reserves. Do not harvest under-represented species such as white pine, red pine, and cedar. Red line out retention pockets of Specs: the parent stand to meet retention guidelines per the work instructions.

Seeding, Machine Seed; Monitoring, Natural Regen (Re-Inventory)

Next Step **Treatments:** 

Acceptable Spruce, cedar, tamarack

Regen: Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

42.3 6122 - Black Spruce Poletimber 27 32226027-Cut 91 81-110 Clearcut with 6119 - Mixed Even-Aged No Harvest Well Retention Lowland Deciduous

Forest

Prescription Clearcut with reserves. Red line out areas to serve as patch retention. Retention pockets should consist of the parent stand. Do not cut under-represented species within the stand such as white pine & cedar. Space out the retention pockets throughout the stand to serve as a Specs: future seed source.

WLD: Retain all Northern White Cedar - seed source and thermal cover.

Next Step Seeding, Machine Seed; Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable Spruce, fir, tamarack, cedar, and pine.

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

45 32226045-16.4 622 - Lowland Shrub Nonstocked 0 Unspec Monitoring Natural Regen 612 - Lowland Even-Aged No Coniferous Monitor ified (Intermediate) Forest

Prescription Monitor the stand to see if natural regeneration will suffice or if seeding via. a snowmobile would be a good option. Specs:

Next Step Seeding, Machine Seed

**Treatments:** 

Acceptable spruce, pine, fir, maple, aspen, tamarack, cedar, birch, and hemlock.

Regen:

Comment:

Other

Site Condition

Proposed Start Date: 10/1 /2021

**Total Treatment** 83.5 **Acreage Proposed:** 

Gwinn Mgt. Unit

Jason Caron: Examiner

Compartment: 226 Year of Entry: 2022

#### **Availability for Management Dominant Site Conditions** Total Acres Acres Avail Acres With Condition Not Available 3J 5D Acres Available 2G 5E Aspen Cedar Jack Pine **Low-Density Trees Lowland Conifers Lowland Deciduous** Lowland Shrub Lowland Spruce/Fir **Mixed Upland Deciduous Natural Mixed Pines Planted Mixed Pines Red Pine** Tamarack Treed Bog **Upland Conifers Upland Mixed Forest** Upland Spruce/Fir Urban Water White Pine 1,320 1,087 Total Forested Acres 82% 10%

Relative Percent

\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

		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)	24	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:	(Stream, river, or lake)					

8%

# **Report 4 – Site Conditions**

Gwinn Mgt. Unit

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2	Unavailable	5D: Unproductive Forest Land	43	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
3	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	43	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Very stagnant and	slow growing stands of spruce.	Hold for	at least another 10 years	to allow stand to increase	n merchantability.	
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Stand of legacy tre	e white and red pine.					
7	Unavailable	5D: Unproductive Forest Land	18	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

# **Report 4 – Site Conditions**

Gwinn Mgt. Unit

Jason Caron : Examiner

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8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Stand of large mate	ure white and red pine of lower o	density. Ur	nderstory of fir is nearly o	dead due to the budworm (	outbreak.	
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
(	Comments.						
		ag alder. Too wet to harvest.					
		ag alder. Too wet to harvest.  5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified

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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				

Gwinn Mgt. Unit Compartment: 226





# 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.

Conservation	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish speci year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	es (e.g., slimy sculpin) to persist from se conditions due to substantial
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virg forest, or primeval forest) is an area of forest that has few or no sexhibits unique ecological features related to age, composition a are of natural origin. They may be dominated by late successions American beech), or may be a very old example of a stand domin species (i.e. oak, or red pine).	signs of human disturbance and that nd associated structure. Old growth forests al forest species (i.e. sugar maple and
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high d communities are ecologically and socially significant in their effect as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, liversity of plants and wildlife. Riparian cts on water quality and quantity, as well

DNR

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Stand	Level 4 C	Level 4 Cover Type Size Density Acres Stand Age B		BA Range	Managed \$	Site	General Comments				
1	4319 - Mixed	d Upland Fo	rest	Sapling	Poor	43.5	5	Immature	N/A		Stand was harvested in the fall of 2016. "Moose Lunch Sale" 32-103-12-
	Canopy Species	% Cover	Size Class	DBH	Age						01. With the heavy snow load I can only see some stump sprout red maple and scattered aspen regeneration. The balsam that exists is
	White Pine	8	XLog/Log	18							remnant understory balsam from before the harvest. Scattered mature
	Red Pine	2	Log	16							pine exists throughout the stand. If I make it out to this stand during snow
	Red Maple	50	Sapling	1	5						free conditions I will monitor to see if some pine and fir regeneration exists. Both the aspen and red maple regeneration is heavily browsed by
	Balsam Fir	40	Sapling	1							moose.
2	4136 - Asper	n, Mixed Co	nifer P	oletimb	er Well	16.3	26	Immature	N/A		Stand was harvested in the summer of 1993 by St. John Logging, per
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Specie	s Density	Avg. Height	Size	#11-92. Stand consists of good quality aspen. The fir that is within the understory is in poor condition due to the budworm outbreak. Scattered
	Red Oak	2	Log	12		Red	d Maple	Low	< 5 feet	Sapling	overstory oak, some jack and red pine exist throughout the stand.
	Quaking Aspen	43	Pole/Sapling	5	26	Bal	sam Fir	Low	< 5 feet	Sapling	
	Bigtooth Aspen	27	Pole/Sapling	5		Wh	ite Pine	Low	< 5 feet	Sapling	
	Balsam Fir	10	Sapling	4		Hazeln	ut (Beaked)	Low	< 5 feet	Tall Shrub	
	White Spruce	4	Sapling	2							
	Red Pine	4	Sapling	3							
	Jack Pine	10	Sapling	4							
3	4191 - Mixed Upla Co Canopy Species	and Deciduonifer  % Cover		Sapling	Poor Age	35.8	5	Immature	N/A		Stand was harvested in the fall of 2016. "Moose Lunch Sale" 32-103-12-01. Scattered mature red pine exists throughout the stand. Red maple stump sprouts exist throughout the stand. Fir is starting to fill in as well.
	Red Maple	55	Sapling	1	5						
	Balsam Fir	10	Sapling	1	3						
	Red Pine	17	Log	17							
	White Pine	2	Log	17							
	Quaking Aspen	16	Sapling	1							
4	6229 - Mixed	d lowland sh	nrub	Nonsto	ocked	9.5	0		No		"Moose Lunch Sale" 32-103-12-01 Cut by Sanville Logging inc. in the fall of 2016. Stand is within low ground and may make for a good candidtate for seeding. I will assess in the spring to see how it looks.
5	500	- Water		Nonsto	ocked	1.1		Immature	No		Small lowland pocket. Looks to be a flooded pothole on imagery.
6	6119 - Mixed Lo	owland Deci	iduous Pol	etimbei	Medium	n 8.2	91	51-80	N/A		Lowland stand that was not cut with stand 45. Was not able to make it to this stand during this YOE.
7	6122 - B	lack Spruce	e Pol	etimbei	· Medium	า 7.6	113	1-50	N/A		DId not make it to this stand during the 2020 inventory. If this stand is merchantable it would be best to harvested with stand 9 into the future.

Report 7 - Stands



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and	Level 4 Co	over Type		size De	ensity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
8	6122 - Bla	ack Spruce	Pole	etimbe	r Medium	28.9	81	111-140	N/A		Stand of older black spruce. Stand contains scattered tamarack as we as pockets of cedar.
(	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	as pockets of cedar.
	Paper Birch	2	Log/Pole	10			alsam Fir	Low	< 5 feet	Sapling	
	Balsam Fir	5	Pole	6		Bla	ck Spruce	Low	5 - 10 feet	Sapling	
	Black Spruce	80	Pole	6	81	Ta	ag Alder	Low	5 - 10 feet	Tall Shrub	
Nort	thern White Cedar	5	Log/Pole	12							
	Tamarack	8	Pole/Log	8							
9	4311 - Pine, Aspen Mix Sapling Well		50.0	26	1-50	N/A		Aspen mixed with jack, red & white pine; scattered balsam fir and spru			
(	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	as well. There is a patch of pure jack pine on the southwest end of thi stand. Stand was harvested in the summer of 1993 by St. John Fores
	Red Maple	4	Sapling	2		Whi	ite Spruce	Low	< 5 feet	Sapling	Products, permit #11-92. Red and white pine were selectively cut and
C	Quaking Aspen	51	Sapling/Pole	4	26	W	hite Pine	Low	< 5 feet	Sapling	birch seed trees were left.
	Balsam Fir	4	Sapling	2		R	ed Pine	Low	< 5 feet	Sapling	
,	White Spruce	2	Sapling	1		Hazelr	nut (Beaked)	Low	< 5 feet	Tall Shrub	
	White Pine	2	XLog/Log	16							•
	White Pine	8	Sapling	3							
	Red Pine	6	XLog/Log	16							
	Red Pine	7	Sapling	3							
	Jack Pine	16	Sapling/Pole	4							
10	6220 - A	lder/willow		Nonsto	ocked	47.0			No		
1	4136 - Aspen	, Mixed Cor	nifer Sa	apling I	Medium	4.3	26 L	Inspecified	N/A		Mix of red pine, aspen, and spruce as well as some jack pine. Cut
(	Canopy Species	% Cover	Size Class	DBH	l Age						summer 1993, St. John Forest Products, permit #11-92
C	Quaking Aspen	70	Sapling	3	26						
1	White Spruce	6	Sapling	3							
	Black Spruce	2	Sapling	1							
	Tamarack	4	Sapling	1							
	Red Pine	2	Log/XLog	16							
	Red Pine	10	Sapling	3							
	Jack Pine	6	Sapling	3							
2	6122 - Bla	ack Spruce	Pole	etimbe	r Medium	7.8	101	51-80	N/A		Small stand, fair amount of storm damage from circa 2005. Access is from the south across private land.  Did not make it to this stand during the 2020 inventory.

Gwinn Mgt. Unit Report 7 – Stands



Stand	Level 4 C	over Type	;	Size De	nsity	Acres	Stand Age	BA Range	Managed 9	Site	General Comments
14	4311 - Pin	e, Aspen M	lix	Sapling	g Well	19.5	26	Immature	N/A		Mix of predominately aspen, fir, jack pine and red pine. Some overstory
С	anopy Species	% Cover	Size Class	DBH	I Age						red and white pine.
Qı	uaking Aspen	51	Sapling	2	26						
	Balsam Fir	14	Sapling	3							
	White Pine	3	XLog	18							
	White Pine	6	Sapling	4							
	Red Pine	3	XLog	18							
	Red Pine	10	Sapling	4							
	Jack Pine	13	Sapling	3							
16	4319 - Mixed	Upland Fo	orest	Sapling	y Well	15.0	25	1-50	N/A		Scattered overstory red and white pine. Range of regen from birch to
С	anopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	tamarack. Cut late winter 1995 by J. Carey Logging, permit #10-92. Spruce less than 9" dbh were left, red and white pine were marked.
	Paper Birch	4	Sapling	2		Та	g Alder	Low	< 5 feet	Tall Shruk	
Qı	uaking Aspen	40	Sapling	2	25	Hazeln	ut (Beaked)	Low	< 5 feet	Tall Shrub	
	Balsam Fir	30	Sapling/Pole	2					1		1
V	Vhite Spruce	5	Sapling	2							
	Tamarack	7	Sapling	2							
	White Pine	3	Sapling	2							
	White Pine	3	XLog/Log	16							
	Red Pine	3	Sapling	2							
	Red Pine	3	XLog/Log	16							
	Jack Pine	2	Sapling	2							
17	42290 - Natu	ıral Mixed F	Pine S	apling I	Medium	n 8.0	26	1-50	N/A		Harvested summer 1993 by St. John Forest Products, permit #11-92.
С	anopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	Pine was selectively cut and any spruce smaller than 8" stump diameter were left. Regen success here is high. There are lots of white and red
	Balsam Fir	30	Sapling/Pole	4	26	Ва	sam Fir	Medium	< 5 feet	Sapling	pine seedlings coming up.
Е	Black Spruce	3	Sapling/Pole	4		Blac	k Spruce	Low	< 5 feet	Sapling	
	White Pine	7	XLog/Log	18		Wh	ite Pine	Medium	< 5 feet	Sapling	
	White Pine	10	Sapling	2		Re	ed Pine	Medium	< 5 feet	Sapling	
	Red Pine	20	XLog/Log	18					1		1
	Red Pine	30	Sapling	2	26						
18	6220 - A	lder/willow		Nonsto	ocked	37.3		Immature	No		Tag alder slough that contains scattered tamarack throughout. Tamarac
						Sub-Ca	nopy Specie	s Density	Avg. Height	Size	varies in age and diameter.
							marack	Low	>20 feet	Pole	

Gwinn Mgt. Unit Report 7 – Stands Compartment: 226
Year of Entry: 2022



Stand	Level 4 Co	over Type	S	ize De	ensity	Acres	Stand Age B	A Range	Managed S	Site	General Comments		
19	429 - Mixed L	Jpland Con	ifers Sav	vtimbe	Medium	18.7	161	1-50	N/A		Overstory red and white pine with a heavy fir understory. Cut late winter 1995 by J. Carey Logging, permit #10-92. Access was from the south via		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	frozen road. Stand currently has a heavy fir understory that is near		
	Red Maple	28	Sapling/Pole	3		Ва	Isam Fir	Low	< 5 feet	Sapling	due to the budworm infestation. The red maple that currently exists will		
	Balsam Fir	20	Sapling/Pole	4		Hazelr	ut (Beaked)	Low	< 5 feet	Tall Shrub	take over once the fir eventually dies out.		
	White Spruce	2	Sapling/Pole	3		Re	d Maple	Low	5 - 10 feet	Sapling			
	White Pine	40	XLog/Log	20	161								
	Red Pine	10	Log	17									
20	42340 - Upla	and Spruce	/Fir Pole	etimbe	r Medium	9.4	81	51-80	N/A		Corridor along West Branch Creek.		
21	6121 - 7	Гатагаск	Sa	awtimb	er Poor	42.9	128	1-50	N/A		Scattered tamarack with some heavier pockets throughout the stand. I		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	noticed a fair amount of dead tamarack in the east side of the stand.		
	Paper Birch	2	Pole	6			ng Alder	Full	5 - 10 feet	Tall Shrub			
	Black Spruce	5	Pole/Sapling	6					I				
	Tamarack	93	Log/Pole	11	128								
24	42220 - Nati	ural Jack P	ine S	Saplin	g Well	2.5	34 I	mmature	N/A		Mix of jack pine & black spruce, with some tamarack along the edge.		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size			
	Black Spruce	4	Sapling	2		Blac	ck Spruce	Low	< 5 feet	Sapling			
	Tamarack	4	Sapling	2		Ta	ımarack	Low	< 5 feet	Seeding			
	White Pine	2	Sapling	1							•		
	Jack Pine	90	Sapling/Pole	4	34								
26	429 - Mixed U	Jpland Con	ifers :	Saplin	g Well	15.6	34	1-50	N/A		Mixed stand of white pine saplings and logs with a considerable amount		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	of balsam fir and scattered jack pine. Scattered white pine weevil damage as well. Commercially cut between 1983-86 by Oscar Antilla.		
	Red Maple	5	Pole/Sapling	6		Ва	lsam Fir	Low	< 5 feet	Seeding	permit #6-82. All oak were left, red and white pine were marked and all		
	Balsam Fir	45	Sapling/Pole	4	34	WI	nite Pine	Low	< 5 feet	Seeding	other species were cut. Fir has been hit hard due to the budworm infestation and will likely die out in the next few years.		
	White Pine	20	Log/XLog	20	161	Hazelr	ut (Beaked)	Medium	< 5 feet	Tall Shrub	intestation and will likely die out in the flext lew years.		
	White Pine	25	Sapling	3									
	Red Pine	2	Sapling/Pole	2									
	Jack Pine	3	Sapling/Pole	4									
27	6122 - Bla	ack Spruce	e Po	oletimb	er Well	42.3	91	81-110	N/A		Stand of black spruce that is mixed with some tamarack, cedar, and jack pine. The north half of the stand appears to be merchantable where the		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	south half not so much. Do a better walk through to see what the south		
	Black Spruce	89	Pole/Sapling	6	91	Blac	k Spruce	Low	5 - 10 feet	Sapling	half of the stand looks like.		
No	rthern White Cedar	2	Pole	8		Ta	ng Alder	Medium	Variable	Tall Shrub			
	Tamarack	7	Pole/Sapling	5									
	Jack Pine	2	Pole	8	87								

Gwinn Mgt. Unit Report 7 – Stands

DEPARTMEN	OF NATURAL PRODUCTION
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Stand	d Level 4 Cover Type			Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments		
28	6121 -	Tamarack		Sapling	Poor	8.9	17	mmature	N/A		Stand was cut in March 2006 by Minerick Logging, sale #104-02-01.		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Tamarack seed trees were left as well as those spruce with less than 4 merchantable sticks.		
	Tamarack	70	Sapling	1	17	Ta	ng Alder	Low	5 - 10 feet	Tall Shruk	2020 Inventory - Tamarack and black spruce saplings are starting to fill in		
	Black Spruce	30	Sapling	1							throughout the stand. I could not verify the extent of the regeneration due to the 2-3' of snow pack. I will make an attempt to look at this stand again		
											in the spring or summer. Stand will definitely be fully stocked by the next inventory cycle.		
29	4130	- Aspen		Sapling	y Well	12.4	16	1-50	N/A		Stand was cut in June 2005. TS #104-02-01. Stand is regenerating back		
	Canopy Species	% Cover	Size Class	DBH	l Age						to aspen and is fully stocked. Aspen diameter varies within the stand.  Also, a low swale exists within the stand. Large diameter white pine		
	Quaking Aspen	82	Sapling	2	16						exists in pockets, especially in the NE corner of the stand.		
	Balsam Fir	3	Sapling/Pole	1									
	Black Spruce	2	Sapling/Pole	2									
	White Pine	2	Sapling	1									
	White Pine	2	XLog	22									
	Red Pine	2	Sapling	1									
	Red Pine	2	XLog/Log	18									
	Jack Pine	5	Sapling	1									
30	6220 - A	Alder/willow		Nonst	ocked	4.6	U	nspecified	No				
31	42120 - Pla	nted Jack Pine		Sapling Well		14.8 21			N/A		Stand harvested in fall of 1993 by Minerick Logging, permit #4-92.		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Cherry, oak, and some red and white pine were left. Under FTP #C31-330, the site was disk trenched and hand planted with jack pine in may		
	Red Maple	3	Sapling/Pole	2		Re	d Maple	Low	< 5 feet	Sapling	1995.		
	Black Spruce	2	Sapling/Pole	3		Ва	lsam Fir	Low	< 5 feet	Sapling			
	White Pine	5	Sapling/Pole	3		Blac	k Spruce	Low	< 5 feet	Sapling			
	Jack Pine	90	Pole/Sapling	5	21								
32	42290 - Nati	Pine Sa	awtimber Medium		m 22.1	n 22.1 161 8		81-110 N/A		Very large red & white pine, pocket of jack pine poles on west end.			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Understory is white pine, aspen, balsam & red maple. Commercially cut 1984 by Holli Forest products, permit #23-81. This stand is different from		
	Red Maple	10	Pole/Sapling	6		Re	d Maple	Low	< 5 feet	Sapling	the surrounding original stand in that the jack pine is bigger in diameter		
	White Pine	40	XLog	24		Ва	lsam Fir	Medium	Variable	Sapling	and the stocking for the red and white pine is higher.		
	Red Pine	45	XLog/Log	20	161	WI	nite Pine	Medium	5 - 10 feet	Sapling			
	Jack Pine	5	Pole	7		D	ed Pine	Low	5 - 10 feet	Sapling			

Report 7 - Stands



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
33	42140 - Plan			Sapling		27.1	31	1-50	N/A		Stand was cut during 1984-86 by Oscar Antilla, permit #6-82. Stand was herbicided, disk trenched and hand planted in May 1990 with white pine,
	Canopy Species Red Maple	% Cover	Size Class Pole/Sapling		Age						FTP #C31-163. There is a considerable amount weevil damage. West
	Red Oak	5	Log/Pole	10							end of stand was not planted but allowed to seed in naturally due to the amount of overstory left in this area. 2020 Inventory - Overall the stand
	Balsam Fir	10	Sapling/Pole	3							is healthy and doing well. The balsam pockets that exist will most likely
	White Pine	5		18							die out due to the budworm infestation. Red pine and white pine look
	White Pine	47	XLog/Log Sapling	4	31						good.
	Red Pine	5	XLog/Log	18	31						
	Red Pine	23	Sapling	4							
34	330 - Low-l			Nonsto	ocked	4.2			No		Small borrow pit. Mostly sand material.
34	000 2011	20		11011010	onou				110		eman series più meetty earla material.
35	429 - Mixed l	<u> </u>		Sapling		30.9	35	Immature	N/A		Stand cut in 1984 by Holli Forest Products, permit #23-81. All maple was left to minimize weevil damage on the white pine regeneration.
	Canopy Species		Size Class		Age						- · · · · ·
	Red Maple	10	Pole/Sapling	6	35						
	Quaking Aspen Balsam Fir	25	Sapling/Pole	4	35						
	White Pine	10	Sapling/Pole	4							
	White Pine	5 15	XLog/Log	18							
	Red Pine		Sapling/Pole	18							
	Red Pine Red Pine	8	XLog/Log	4							
	Jack Pine	25	Sapling Sapling/Pole								
200	42140 - Plan			Sapling	ı Mall	22.0	31	1-50	N/A		Stand was cut during 1984-86 by Oscar Antilla, permit #6-82. The site
36	Canopy Species		Size Class		Age		nopy Specie		Avg. Height	Size	was disk trenched in 1989, FTP #C31-163. The east end was planted
	Red Maple	7	Pole	6	Age		nut (Beaked)		< 5 feet	Tall Shrub	with white pine in 1990, the western 1/3 was not planted and allowed to regenerate naturally which worked very well. Weevil damage prevalent
	Balsam Fir	10	Sapling/Pole	4		Tiuzon	iat (Beakea)	LOW	V 0 1001	Tall Office	throughout the stand. There is more red pine in this stand compared to
	White Pine	10	XLog/Log	16							north of the ELF ROW, but could still be same stand as the species
	White Pine	30	Sapling/Pole	3	31						composition is the same.
	Red Pine	10	XLog/Log	16	161						
	Red Pine	30	Sapling/Pole		31						
	Jack Pine	3	Sapling	3							
37	6122 - Black Spruce		,	Sapling	ı Well	18.4	91	Unspecified	N/A		Small diameter black spruce. Assuming poor site quality as growth
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	essentially stopped at about 40-50yrs.
	Paper Birch	2	Sapling/Pole				ck Spruce	Low	< 5 feet	Sapling	
	Black Spruce	96	Sapling/Pole	4	91	Ta	ag Alder	Full	< 5 feet	Tall Shrub	
	Tamarack	2	Sapling/Pole	_							
38	6224	Γreed Bog		Nonsto	cked	3.9		Unspecified	No		

Report 7 - Stands



Stand	Level 4 Cover Type		8	ize De	nsity	Acres	Stand Age BA Range		Managed S	Site	General Comments	
39	3303 - Mixed Low Density Trees			Nonsto	ocked	11.7			No			
40	42120 - Plar	anted Jack Pine		Sapling Well		21.5	27		N/A		Site was harvested in the summer of 1994 by Minerick Logging, permit	
C	Canopy Species	% Cover	Size Class	s DBH Age		Sub-Car	nopy Species	Density	Avg. Height	Size	#4-92. The site was then herbicided, disk trenched and hand planted to jack pine in May 1995 under FTP #C31-330.	
	Red Maple	2	Sapling	1		Bal	sam Fir	Low	< 5 feet	Sapling	Jack Fills III III II	
Q	Quaking Aspen	2	Sapling	1		Blac	k Spruce	Low	< 5 feet	Sapling		
	Balsam Fir	2	Sapling	1								
E	Black Spruce	5	Sapling	2								
	Tamarack	4	Sapling	2								
	White Pine	2	Sapling	2								
	Jack Pine	83	Sapling	4	27							
41	42200 - Natu	ural White F	Pine S	awtimb	er Well	11.6	171	51-80	N/A		Stand cut in 1984 by Holli Forest Products, permit #23-81. Stand	
C	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	currently contains a dense understory of advanced red maple regeneration. Most of the trees meet our Legacy Tree diameter and agr	
	Red Maple	10	Pole	8		Quak	ing Aspen	Medium	Variable	Sapling	requirement. Also, I would consider this stand Type 2 Old Growth but	
Q	Quaking Aspen	4	Sapling/Pole	3	35	Bal	sam Fir	Low	5 - 10 feet	Sapling	does not meet the definition as the stand is only 11 acres in size. Type	
	Balsam Fir	2	Sapling/Pole	4		Whit	e Spruce	Low	5 - 10 feet	Sapling	OG with previous forest management needs to be 20 acres or more in size.	
	White Pine	64	XLog/Log	22	171	Wh	ite Pine	High	Variable	Sapling	5126.	
	VVIIILE I IIIE											
	Red Pine	20	XLog/Log	22			d Maple	High	10 - 20 feet	Sapling	Lawrence also a Word Daniel Const.	
		20 d lowland sh	XLog/Log nrub	Nonsto	ocked r Medium	8.3	<u> </u>	High	10 - 20 feet No N/A	Sapling	Low area along West Branch Creek.  Did not make it to this stand during the 2020 inventory cycle. Was formerly typed out as a treed bog.	
43	Red Pine 6229 - Mixed 429 - Mixed U	20 d lowland sh	XLog/Log nrub ifers Pole	Nonsto		8.3	<u> </u>		No	Sapling	Did not make it to this stand during the 2020 inventory cycle. Was	
43 44	6229 - Mixed U 429 - Mixed U 6122 - Bl	20 d lowland sh Upland Con	XLog/Log nrub ifers Pole	Nonsto	Medium	8.3	76 L	Jnspecified	No N/A	Coniferous	Did not make it to this stand during the 2020 inventory cycle. Was formerly typed out as a treed bog.  Regenerating BS & Tam with scattered pole size BS & Tam overstory.	
43 44 45	6229 - Mixed L 429 - Mixed L 6122 - Bl	20 I lowland sh  Jpland Con  Jack Spruce	XLog/Log  nrub  ifers Pole  Sa	Nonsto	Medium	8.3 4.6 10.1 16.4	76 L	Jnspecified	No N/A N/A 612 - Lowland C	Coniferous	Did not make it to this stand during the 2020 inventory cycle. Was formerly typed out as a treed bog.  Regenerating BS & Tam with scattered pole size BS & Tam overstory.  "Moose Lunch Sale" 32-103-12-01 Cut by Sanville Logging inc. in the fa	
13 14 15	6229 - Mixed L 429 - Mixed L 6122 - Bl	20 I lowland sh Upland Con lack Spruce	XLog/Log  nrub  ifers Pole  Sa	Nonsto	Medium Medium Ocked	8.3 4.6 10.1 16.4	76 L	Jnspecified  1-50  Jnspecified  Jnspecified	No N/A N/A 612 - Lowland C Fores	Coniferous	Did not make it to this stand during the 2020 inventory cycle. Was formerly typed out as a treed bog.  Regenerating BS & Tam with scattered pole size BS & Tam overstory.  "Moose Lunch Sale" 32-103-12-01 Cut by Sanville Logging inc. in the fof 2016.	
13 14 15	Red Pine 6229 - Mixed L 429 - Mixed L 6122 - Bl	20 I lowland sh Upland Con lack Spruce	XLog/Log  nrub  ifers Pole  Sa	Nonsto	Medium Medium Ocked	8.3 4.6 10.1 16.4 17.5 <b>Sub-Car</b>	76 L 39 0 L	Jnspecified  1-50  Jnspecified  Jnspecified	No N/A N/A 612 - Lowland C Fores N/A	Coniferous t	Did not make it to this stand during the 2020 inventory cycle. Was formerly typed out as a treed bog.  Regenerating BS & Tam with scattered pole size BS & Tam overstory.  "Moose Lunch Sale" 32-103-12-01 Cut by Sanville Logging inc. in the fof 2016.	
43 44 45 46	Red Pine 6229 - Mixed L 429 - Mixed L 6122 - Bl 622 - Low 6122 - Bl	20 Id lowland shad Shruce Idack Spruce Idack Spruce Idack Spruce Washington	XLog/Log  nrub  ifers Pole  Salah  Pole  Size Class	Nonstonation Nonstonation	r Medium Medium ocked r Medium	8.3 4.6 10.1 16.4 17.5 Sub-Cai	76 L 39 0 L 91 L	Jnspecified  1-50  Jnspecified  Jnspecified  Density	No N/A N/A 612 - Lowland C Fores N/A Avg. Height	Coniferous t	Did not make it to this stand during the 2020 inventory cycle. Was formerly typed out as a treed bog.  Regenerating BS & Tam with scattered pole size BS & Tam overstory.  "Moose Lunch Sale" 32-103-12-01 Cut by Sanville Logging inc. in the f of 2016.  Variable stocking & diameter. Very small poles.	
43 44 45 46	Red Pine 6229 - Mixed L 429 - Mixed L 6122 - Bl 622 - Lov 6122 - Bl Canopy Species Black Spruce	Jowland shaped and Shrub lack Spruce was Spruce when Shrub lack Spruce % Cover 90	XLog/Log  nrub  ifers Pole  Size Class Sapling/Pole	Nonsto	r Medium Medium ocked r Medium	8.3 4.6 10.1 16.4 17.5 Sub-Cai	76 L 39 0 L 91 L nopy Species	Jnspecified  1-50  Jnspecified  Jnspecified  Density  Low	No N/A N/A 612 - Lowland C Fores N/A Avg. Height < 5 feet	Coniferous t Size Sapling	Did not make it to this stand during the 2020 inventory cycle. Was formerly typed out as a treed bog.  Regenerating BS & Tam with scattered pole size BS & Tam overstory.  "Moose Lunch Sale" 32-103-12-01 Cut by Sanville Logging inc. in the f of 2016.  Variable stocking & diameter. Very small poles.	
44 45 46 North	Red Pine 6229 - Mixed L 429 - Mixed L 6122 - Bl 622 - Low 6122 - Bl Canopy Species Black Spruce hern White Cedar Tamarack	Jowland Shrubalack Spruce Ward Shrubalack Spruce Ward Cover 90 5	XLog/Log  nrub  ifers Pole  Pole  Size Class  Sapling/Pole  Pole  Pole  Pole	Nonsto	r Medium Medium ocked r Medium	8.3 4.6 10.1 16.4 17.5 Sub-Cai	76 L 39 0 L 91 L nopy Species	Jnspecified  1-50  Jnspecified  Jnspecified  Density  Low	No N/A N/A 612 - Lowland C Fores N/A Avg. Height < 5 feet	Coniferous t Size Sapling	Did not make it to this stand during the 2020 inventory cycle. Was formerly typed out as a treed bog.  Regenerating BS & Tam with scattered pole size BS & Tam overstory.  "Moose Lunch Sale" 32-103-12-01 Cut by Sanville Logging inc. in the for 2016.  Variable stocking & diameter. Very small poles.	
44 45 46 0 E North	Red Pine 6229 - Mixed L 429 - Mixed L 6122 - Bl 622 - Low 6122 - Bl Canopy Species Black Spruce hern White Cedar Tamarack	Jowland shad Shrubshack Spruce  Washington Shrubshack Spruce  Washington Shrubshack Spruce  Washington Shrubshack Spruce  South Shrubshack Spruce	XLog/Log  nrub  ifers Pole  Pole  Size Class  Sapling/Pole  Pole  Pole  Pole  Sapling/Pole	Nonsto	Medium  Medium  Ocked  T Medium  I Age  91	8.3  4.6  10.1  16.4  17.5  Sub-Cai  Blac  Ta	76 L 39 0 L 91 L nopy Species k Spruce g Alder	Jnspecified  1-50  Jnspecified  Jnspecified  Density  Low Full  1-50	No N/A N/A 612 - Lowland C Fores N/A Avg. Height < 5 feet 5 - 10 feet	Coniferous t Size Sapling	Did not make it to this stand during the 2020 inventory cycle. Was formerly typed out as a treed bog.  Regenerating BS & Tam with scattered pole size BS & Tam overstory.  "Moose Lunch Sale" 32-103-12-01 Cut by Sanville Logging inc. in the for 2016.  Variable stocking & diameter. Very small poles.	
North  47	Red Pine 6229 - Mixed L 429 - Mixed L 6122 - Bl 622 - Low 6122 - Bl Canopy Species Black Spruce hern White Cedar Tamarack 6122 - Bl	20 d lowland sh Upland Con lack Spruce wland Shrub lack Spruce % Cover 90 5 5 lack Spruce	XLog/Log  nrub  ifers Pole  Pole  Size Class  Sapling/Pole  Pole  Pole  Pole  Sapling/Pole	Nonsto	Medium  Medium  Medium  Medium  Medium  Medium  Medium	8.3  4.6  10.1  16.4  17.5  Sub-Car  Blac  Ta  15.1  Sub-Car	76 L 39 0 L 91 L nopy Species k Spruce g Alder 96	Jnspecified  1-50  Jnspecified  Jnspecified  Density  Low Full  1-50	No N/A N/A 612 - Lowland C Fores N/A Avg. Height < 5 feet 5 - 10 feet N/A	Size Sapling Tall Shrub	Did not make it to this stand during the 2020 inventory cycle. Was formerly typed out as a treed bog.  Regenerating BS & Tam with scattered pole size BS & Tam overstory.  "Moose Lunch Sale" 32-103-12-01 Cut by Sanville Logging inc. in the for 2016.  Variable stocking & diameter. Very small poles.  Small diameter spruce.	



Stand	d Level 4 C	evel 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		Site	General Comments						
48	6122 - Bl	ack Spruce	e Po	oletimb	er Well	10.1	89	81-110	N/A		A very slow growing stagnant stand of black spruce. Given the small
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	diameter of the trees I was surprised to see the age of the trees. A high water table exists within the stand as was evident by the tag alder
	Black Spruce	98	Pole	8	89	Black	k Spruce	Low	< 5 feet	Sapling	understory and water pockets throughout the stand.
	Tamarack	2	Pole	8		Ta	g Alder	Medium	< 5 feet	Tall Shrub	
49		42121 - Planted Jack Pine, M Deciduous		Poletimber We		31.4 37		51-80 N/A		Jack pine with aspen pockets. Different than adjacent stand; much shorter and not as dense. Was commercially cut in 1982 by Holli Forest	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Products, permit #24-81A. FTP #C31-114 for scarifying and seeding was written but never acted upon. Enough natural regeneration was in place.
	Red Maple	5	Sapling/Pole	4		Red	d Maple	Low	< 5 feet	Sapling	whiten but hever acted upon. Enough hatural regeneration was in place.
	Bigtooth Aspen	21	Pole	7		Hazelni	ut (Beaked)	Medium	< 5 feet	Tall Shrub	
	Balsam Fir	2	Sapling/Pole	4							
	Black Spruce	2	Sapling/Pole	5							
50	42121 - Planted Dec	Jack Pine,	Mixed Po	oletimb	er Well	71.4	43	51-80	N/A		Planted jack pine with aspen pockets. Was cut in 1973 by Oscar Antilla, permit #18/72A. Area was scarified with roller chopper and anchor
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	chains in the spring of 1974 then seeded with 1/2 lb/acre of jack pine
	Quaking Aspen	12	Sapling/Pole	5			d Maple	Low	< 5 feet	Sapling	seed on 5/29/1974 under FTP #CF-106. This treatment was considered unsuccessful and it was followed up by machine planting of jack pine in the spring of 1977, planting form #168.
	Bigtooth Aspen	11	Sapling/Pole	5			ut (Beaked)	Low	< 5 feet	Tall Shrub	
	Black Spruce	2	Sapling/Pole	5							
51	4130	- Aspen	Po	oletimb	er Well	18.8	38	1-50	N/A		Mix of jack pine pockets within the aspen. Oak is only in north. Some re
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	pine and white pine scattered throughout. Stand had been cut in 1982 by Holli Forest Products, permit #24-81A. Stand is very healthy and could be
	Red Oak	2	Log/Pole	10		Wh	ite Pine	Low	< 5 feet	Sapling	considered for a harvest during the next inventory cycle.
	Bigtooth Aspen	90	Pole	7	38	Re	ed Pine	Low	< 5 feet	Sapling	
	Red Pine	2	Sapling/Pole	5		Hazelnı	ut (Beaked)	Low	< 5 feet	Tall Shrub	
	Jack Pine	6	Pole	7							
52	4130	- Aspen	Pole	etimbe	r Medium	n 9.4	43	51-80	N/A		Scattered oak & pine. Stand was cut in 1973 by Oscar Antilla, permit
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	#18/72A. No oak was cut in this stand. There is some oak regen in the areas surrounding the residual oak, but it is heavily browsed.
	Red Maple	8	Pole/Sapling	7		Red	d Maple	Low	Variable	Sapling	arous surrounding the residual oak, but it is neavily browsed.
	Red Oak	3	Pole/Log/Sap	8		Re	ed Oak	Low	< 5 feet	Sapling	
	Paper Birch	2	Pole	7		Wh	ite Pine	Low	5 - 10 feet	Sapling	
	Bigtooth Aspen	82	Pole/Sapling	6	43	Jac	ck Pine	Low	5 - 10 feet	Sapling	
	Red Pine	2	Log/Pole/XLog	10		Hazelni	ut (Beaked)	Medium	< 5 feet	Tall Shrub	
	Jack Pine	3	Pole/Sapling	6				1			
53		42121 - Planted Jack Pine, Mixed Sa Deciduous		apling Medium		52.5	52.5 16 In		N/A		Stand was cut between Oct 2002 and June 2004 by Minerick Logging, sale #104-02-01. Site was then herbicided, disk trenched and direct
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	seeded under FTP #C31-464. Trenching and seeding took place in spring of 2005. Stand contains some open patches where trees did not
	Red Maple	3	Sapling	2		Hazelni	ut (Beaked)	Medium	< 5 feet	Tall Shrub	
										T !! O! !	
	Quaking Aspen Red Pine	22	Sapling Log/XLog/Pole	13		Swe	eet Fern	Low	< 5 feet	Tall Shrub	



Stand	Level 4 C	Size De	Density	ity Acres	res Stand Age BA Range		Managed Site		General Comments		
54	122 - Road/Parking Lot		ot	Nonstocked		1.7			No		
55	42120 - Plai	nted Jack F	Pine	Sapling	g Well	55.0	26	Immature	N/A		Stand had been cut in spring of 1983 by Clarence Christian, permit #9-
	Canopy Species	% Cover	Size Class	DBH	l Age						92, all oak were left. Under FTP #C31-287, the site was herbicided, disk trenched and hand planted in May 1995. Stand is healthy and fully
	Red Maple	3	Sapling	3							stocked.
	Red Oak	2	Pole/Sap/Log	8							
	Quaking Aspen	2	Sapling	3							
	Jack Pine	93	Sapling	4	26						
56	4130	- Aspen		Saplin	g Well	10.8	27	Immature	N/A		Stand was harvested in 1993 by Clarence Christian, permit #9-92. All
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	oak and most red and white pine were left.
	Red Maple	10	Sapling	2		Re	d Maple	Medium	< 5 feet	Sapling	
	Red Oak	3	Pole/Log	8		R	ed Oak	Low	< 5 feet	Seeding	
	Quaking Aspen	7	Sapling	3		Hazelr	ut (Beaked)	Medium	< 5 feet	Tall Shrub	
	Bigtooth Aspen	70	Sapling/Pole	4	27			<u> </u>			
	White Pine	3	Pole/Sap/Log	7							
	Red Pine	3	Log/XLog	14							
	Jack Pine	4	Sapling	3							
57	6121 - 1	Tamarack	P	oletimb	er Well	15.4	113	111-140	N/A		Stand of pole sized tamarack. Stand consists of very low ground and serves as a good buffer to the Middle Branch of the Escanaba River. Do
	Canopy Species	% Cover	Size Class	DBH	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	not harvest due to wet ground and BMP concerns.
	Balsam Fir	5	Pole/Sapling	6		Ва	lsam Fir	Low	< 5 feet	Sapling	3
	Black Spruce	45	Pole	8	118	Blac	k Spruce	Low	< 5 feet	Sapling	
	Tamarack	50	Pole/Log	8	113	Та	ig Alder	Low	< 5 feet	Tall Shrub	
58	42210 - Nat	tural Red P	ine Sav	Sawtimber Mediun		n 1.2	84	111-140	N/A		Unique island of natural red and white pine. Rocky knob, exposed bedrock. Remnant red & white pine with poor quality hardwood.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	bedrock. Remnant red & write pine with poor quality hardwood.
	White Pine	15	Log	16		Ва	Isam Fir	Medium	Variable	Sapling	
	Red Pine	85	Log	17	84						
60	6220 - A	Alder/willow		Nonst	ocked	28.1			No		West Branch of the Black River. Numerous beaver dams throughout. Ta alder and willow exist along the edges.
201	4130	- Aspen		Saplin	g Well	27.6	36	51-80	N/A		Stand consists of a mix of deciduous and conifer. Fir is in very poor
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	condition due to the budworm outbreak.
	Quaking Aspen	80	Pole/Sapling	5	36	Ва	Isam Fir	Low	Variable	Sapling	
	Red Maple	20	Sapling	4				· · · · · · · · · · · · · · · · · · ·			_
203	6128 - Lowland Dec	Coniferous iduous	, Mixed Po	oletimb	er Poor	12.4	74	51-80	N/A		Mixed lowland, mostly conifer with some balm, black ash and WB. Tag alder openings dispersed throughout the stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Sit	te	General Comments
204	42220 - Natural Jack Pine	Sapling Medium	6.1	34	1-50	N/A		
205	6124 - Lowland Spruce-Fir	Poletimber Poor	9.4	79	51-80	N/A		BS & Tam with advanced regen of BS & BF underneath.
<b>207</b>	Canopy Species % Cover Size Clarthern White Cedar 70 Pol Black Spruce 30 Pol	e 8 79	8.8	79	141-170	N/A		Mostly Cedar. Stocking is high between the patches of lowland brush. Patches of blown down timber filled in with tag alder, BS, Tam and cedar
209	42330 - Upland Fir	Sapling Medium	12.7	34	1-50	N/A		Scattered openings in stand where regen has been poor due to shallow, sandy soils.
210	6121 - Tamarack  Canopy Species % Cover Size Cl Tamarack 60 Pole/Sa Black Spruce 40 Pole/Sa	apling 6 39	16.8	39	1-50	N/A		Lowland BS & Tam. Mostly saplings with small poles (4-5") scattered.
211	4134 - Aspen, Spruce/Fir	Sapling Medium	9.1	24	Unspecified	N/A		Aspen regen with fir understory
212	4130 - Aspen  Canopy Species % Cover Size Cl  Quaking Aspen 100 Sapl		21.8	34	1-50	N/A		St. John acquisition. Aspen regen with a few scattered WP & RP sawtimber super canopy trees.
213	4130 - Aspen  Canopy Species % Cover Size Cl  Quaking Aspen 100 Sapl			24 nopy Specie	Unspecified es Density Low	N/A  Avg. Height  Variable	<b>Size</b> Sapling	Aspen with fir understory
217	6122 - Black Spruce	Sapling Poor	3.3	79	1-50	N/A		Variable stand. Tag alder thickets and mixed conifers, some cedar.
218	6124 - Lowland Spruce-Fir	Sapling Medium	20.8	24	Unspecified	N/A		Mixed stand of BS, JP, Tam, BF. Stick nest observed on broken snag 20 ft high. No BA swings taken.
219	4130 - Aspen  Canopy Species % Cover Size Cl			24 nopy Specie		N/A Avg. Height	Size	Well stocked aspen stand. Some fir within the understory.
	Quaking Aspen 100 Pol	e 6 24	Ba	Isam Fir	Low	Variable	Sapling	

Gwinn Mgt. Unit Report 7 – Stands



Stand	Level 4 C	Level 4 Cover Type				Acres	Stand Age BA Range		Managed Site		General Comments	
221	42290 - Nati	42290 - Natural Mixed Pine		Sapling Well s DBH Age		90.2	31	1-50	N/A		Stand consists of variable levels of mature pine with a heavy understory	
	Canopy Species % Cover Size Class		Size Class			Sub-Canopy Species		Density	Avg. Height Size		of fir, jack pine, and aspen. Mature pine is not dense enough to consider for a final harvest. Allow regeneration to become the dominant stand.	
	Jack Pine	30	Sapling	4	31	Ва	lsam Fir	Low	Variable	Sapling		
	Red Pine	30	Sapling	4							_	
	Balsam Fir	30	Sapling	3								
	Red Pine	10	XLog	18								
222	6229 - Mixed lowland shrub			Nonst	ocked	2.3			No			