

Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32077 Entry Year 2021 Acreage: 1,573

County Marquette

Management Area: Dead Horse Moraines

Revision Date: 2019-07-25

Stand Examiner: Eric Brolin

Legal Description:

T43N - R24W, Sections 4, 5, 6

Identified Planning Goals:

Strive to perpetuate the component of maple, aspen, and dry mesic conifers where they now occur.

Soil and topography:

Nearly level drainage ways, ground moraines, and till plains.

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

Surrounded by State land. Private holdings within the compartment, with several camps. Land use is production of commercial forest products, and low key recreation.

Unique Natural Features:

Big and Little Kiwi Lakes are in Sections 5 and 6.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment contains two unnamed waterbodies (small lakes). 100' plus 5' per 1% increase in slope; buffers are recommended for these unnamed waterbodies to protect shoreline areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 077 is found within the Dead Horse Moraines Management Area; on Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include Northern Hardwood, Aspen, and Mixed Lowland Conifer. This management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area. The most significant wildlife management issues in the management area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); course woody debris, early successional forest, and deer wintering complexes.

The following have been identified as featured species for the Dead Horse Moraines Management Area: black bear, pileated woodpecker, ruffed grouse, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat & muck and minor medium-textured till. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River and Prairie du Chien Groups subcrop below the glacial drift. The Black River is quarried for stone in the UP and the PdC could be used for stone. There are no gravel pits located in this area and potential appears to be limited. Abandoned iron mines are located ten miles to the northwest. This area was not previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

County Road RM - Swamp Buck Road

Survey Needs:

Recreational Facilities and Opportunities:

General forest recreation.

Fire Protection:

Wet access in most areas will be difficult to access with fire equipment. Within the Gwinn Unit protection area.

Additional Compartment Information:

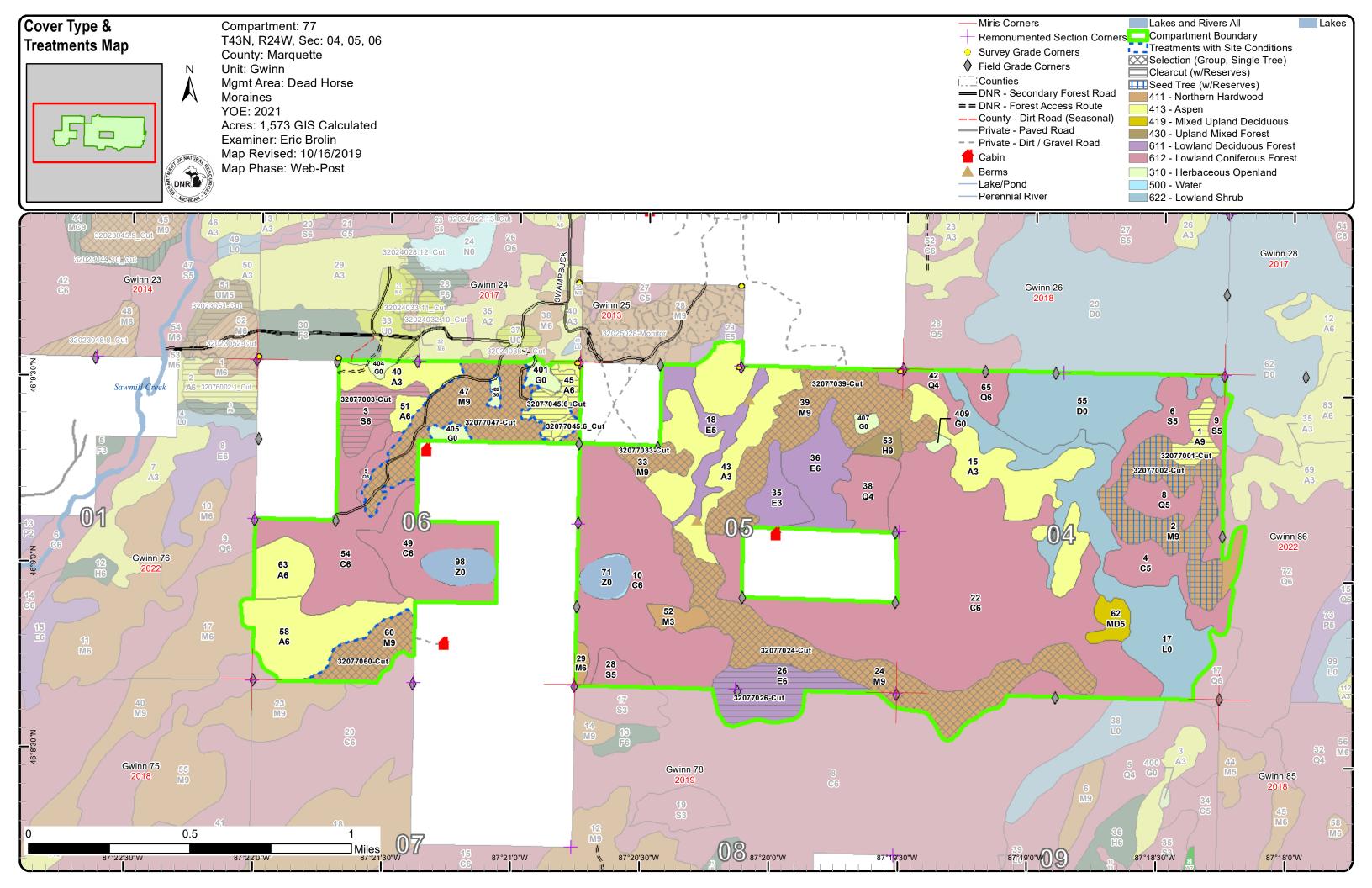
The following reports from the Inventory are attached:

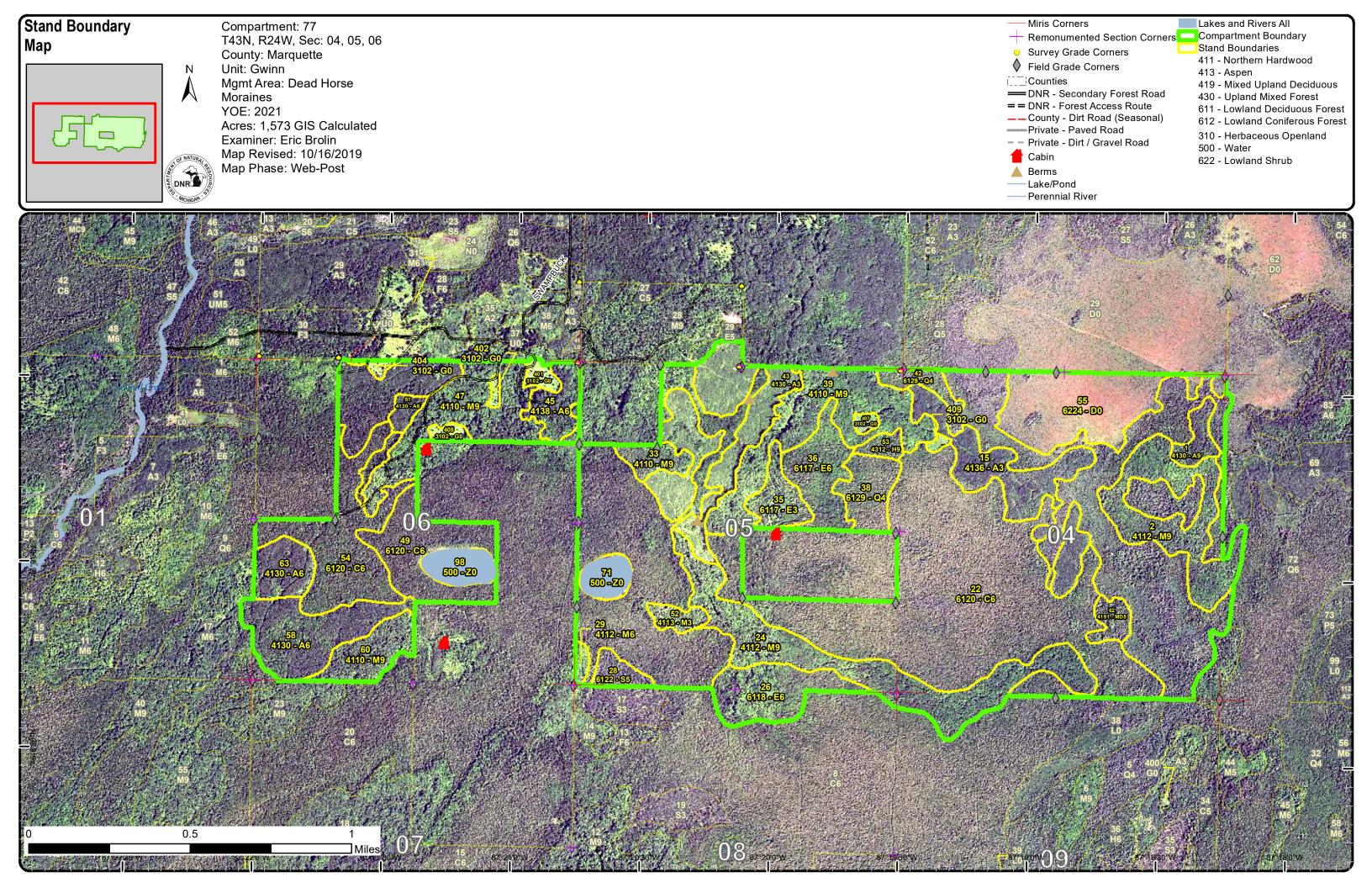
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

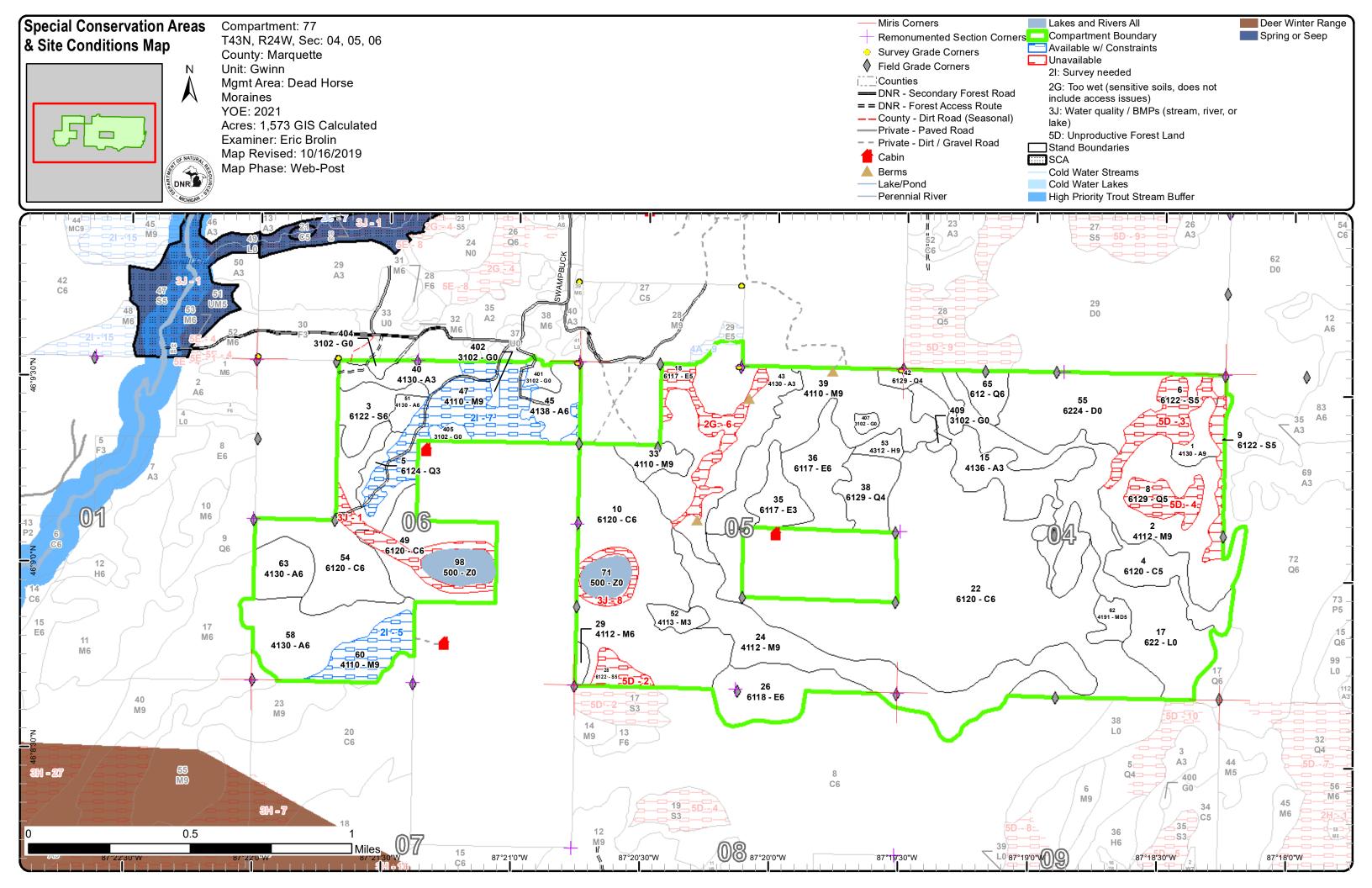
The following information is displayed, where pertinent, on the attached compartment maps:

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

Details on the road access system







Gwinn Mgt. Unit **Eric Brolin: Examiner**



Age Class

	¥or	Koria C	3/2	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		8 / 5	180 (S)	3/8	\$ / K	,		\$ \(\bar{\gamma}{\gamma} \)	00,00	, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,			IA A	g* Jres	Se Los
Aspen	0	76	16	76	56	0	17	10	0	0	0	0	0	0	0	0	0	0	251
Cedar	0	0	0	0	0	0	0	0	0	0	101	406	0	0	47	0	0	0	554
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Herbaceous Openland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Conifers	0	0	0	0	5	0	44	0	0	0	0	15	0	0	0	0	0	0	64
Lowland Deciduous	0	0	0	17	0	0	0	36	0	0	23	0	0	0	0	0	0	33	108
Lowland Shrub	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	9	0	33	0	0	0	0	20	0	62
Mixed Upland Deciduous	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
Northern Hardwood	0	0	7	0	0	0	0	58	0	36	220	0	0	0	0	0	0	0	321
Treed Bog	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Water	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Total	194	76	23	93	61	9	61	104	0	45	344	454	0	0	47	0	20	39	1569



Report 2 – Treatment Summary

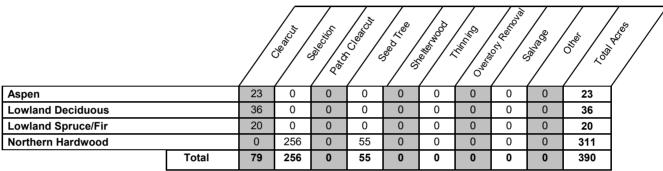
Gwinn Mgt. Unit Year of Entry: 2021

Acres of Harvest

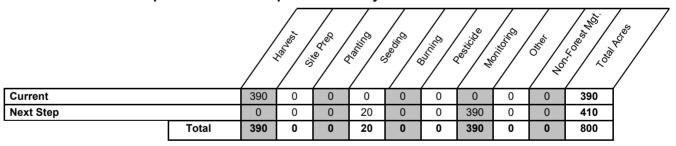
Compartment 77
Total Compartment Acres: 1,573

Commercial Harvest - 390 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



DNR

Compartment: 77

Year of Entry: 2021

a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	32077001-Cut	10.3	4130 - Aspen	Sawtimber Well	69	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No Site Condition:

Prescription Harvest to a 2" spec to promote aspen regeneration. Retention should include forked crown aspen and paper birch. Leave cedar, hemlock, and

Specs: white pine.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, spruce, fir

Regen: Other

S

Access may require frozen conditions to harvest.

Comment:

Proposed Start Date: 10/1 /2020

32077002-Cut 55.0 4112 - Maple. Sawtimber 62 81-110 Harvest Seed Tree with 4116 - Mixed N. Two-Aged Proposal Beech, Cherry Well Retention Hardwood -Association Aspen

Habitat Cut: No Site Condition:

<u>Prescription</u> Harvest to a 2" spec to promote red maple and aspen regeneration. Green mark to leave 10-20 BA of better quality red maple poles. These leave <u>Specs:</u> trees will be left indefinitely for seed and diversity. Leave cedar, hemlock, white pine, and yellow birch in combination with green marked trees.

Most surrounding lowland conifer is sparse and unproductive, but include any areas that may be merchantable with this treatment.

<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable red maple, aspen, spruce/fir

Regen:

Other Very limited access and poor potential for any quality sawlogs. This should be managed as an even-aged stand. Access may require frozen

Comment: conditions to harvest.

Proposed Start Date: 10/1 /2020

3 32077003-Cut 19.6 6122 - Black Spruce Poletimber 150 111- Harvest Clearcut with 6122 - Black Even-Aged Proposal Well 140 Retention Spruce

Habitat Cut: No Site Condition:

<u>Prescription</u> Harvest to a 2" spec. to promote black spruce regeneration. Leave cedar, white pine, and hemlock if present.

Specs:

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

Site Condition:

Treatments:

Acceptable black spruce, tamarack, cedar

Regen:

Other Stand lines are clear on the ground where cedar becomes too dense along the south border. Access from G0 to the north for harvest and

Comment: decking. Retain northeast bubble where cedar becomes too dense. Harvest during dry or frozen conditions.

Proposed Start Date: 10/1 /2020

24 32077024-Cut 91.5 4112 - Maple, Sawtimber 90 111- Harvest Single Tree 411 - Northern Uneven- Proposal Selection Hardwood Aged

Association

<u>Prescription</u> Mark stand to 70-90 BA. Maintain older canopy gaps that are growing in while creating new ones to establish/release regeneration. Leave some <u>Specs:</u> large future snag trees for wildlife including trees over a 24" diameter at the stump. Leave cedar, hemlock, and white spruce. Favor diversity

while marking especially yellow birch.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Habitat Cut: No

Acceptable northern hardwood

Regen:

Other Comment:

Proposed Start Date: 10/1 /2020

Report 3 -- Treatments

Compartment: 77

Year of Entry: 2021

a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
26	32077026-Cut	36.2	6118 - Lowland Deciduous with Cedar	Poletimber Well	60	111- 140	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Two-Aged	Proposal
Hab	oitat Cut: No		Site Condition	<u>:</u>							

Prescription Harvest to a 2" spec. to promote lowland hardwood and conifer regeneration. Leave cedar, hemlock, white pine, and yellow birch. Green tree to

leave some healthy paper birch. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable lowland hardwoods, conifers

Regen:

Other Harvest during dry or frozen conditions.

Comment:

Proposed Start Date: 10/1 /2020

11.7 4110 - Sugar Maple Sawtimber 32077033-Cut 85 141-Single Tree 411 - Northern Proposal Harvest Uneven-170 Selection Hardwood Aged Association

Habitat Cut: No Site Condition:

Prescription Mark stand to 70-90 BA. Maintain older canopy gaps that are growing in while creating new ones to establish/release regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar and hemlock if present. Favor diversity while marking Specs:

especially basswood.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable northern hardwood

Regen: Other Comment

Proposed Start Date: 10/1 /2020

32077039-Cut 69.6 4110 - Sugar Maple Sawtimber 111-Harvest Single Tree 411 - Northern Uneven-Proposal Association Hardwood Well 140 Selection Aged

Habitat Cut: No Site Condition:

Monitoring, Natural Regen (Re-Inventory)

Prescription Mark stand to 70-90 BA. Maintain older canopy gaps that are growing in while creating new ones to establish/release regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife including trees over a 24" diameter at the stump. Leave cedar and Specs:

hemlock if present. Favor diversity while marking especially basswood and yellow birch.

Next Step **Treatments:**

Acceptable northern hardwood

Regen: Other Comment:

Proposed Start Date: 10/1 /2020

413 - Aspen Even-Aged Field Boundary 13.1 4138 - Aspen (OI) Poletimber Clearcut with 32077045.6 C 111-Harvest Well 140 Retention ut

Habitat Cut: No Site Condition:

Prescription Clearcut stand, cut all hardwood using a 2 inch spec leave all sub merchantable conifer. Leave all hemlock, cedar, and white pine Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, mixed hardwood, mixed confer.

Regen: Other Comment:

Proposed Start Date: 11/8 /2017 Gwinn Mgt. Unit

Report 3 -- Treatments

Compartment: 77 Year of Entry: 2021 DNR DNR

a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
47	32077047-Cut	59.3 4	4110 - Sugar Maple Association	Sawtimber Well	90	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal

Habitat Cut: No Site Condition:

<u>Prescription</u> Mark stand to 70-90 BA. Maintain older canopy gaps that are growing in while creating new ones to establish/release regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, black cherry, and yellow birch. Favor diversity

while marking especially basswood.

Monitoring, Natural Regen (Re-Inventory)

Next Step Treatments:

Acceptable northern hardwood

Regen:

S

Other Do not mark below target in areas with lighter BA.

Comment:

Proposed Start Date: 10/1 /2020

60 32077060-Cut 23.9 4110 - Sugar Maple Sawtimber 80 111- Harvest Single Tree 411 - Northern Uneven-Association Well 140 Selection Hardwood Aged

Habitat Cut: No Site Condition:

<u>Prescription</u> Mark stand to 70-90 BA. Maintain older canopy gaps that are growing in while creating new ones to establish/release regeneration. Remove all <u>Specs:</u> merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and yellow birch. Favor diversity while marking

especially basswood.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable northern hardwood

Regen:

Other Capture any merchantable upland spruce/fir along stand edges. Start date of 10/01/2027 to harvest with hardwoods from Compartments

Comment: 75/76/77/78.

Proposed Start Date: 10/1 /2027

Total Treatment Acreage Proposed:

390.2

Compartment: 77

Gwinn Mgt. Unit

Eric Brolin : Examiner Year of Entry: 2021

Availa	ability for	Managemer	nt					
Total	Acres	Acres Avail	Acres		Domina	nt Site	Con	ditions
Acres	Available	With Condition	Not Available		4A	2G	3J	5D
252	251	1	0	Aspen	1			
555	529	0	26	Cedar			26	
6	6	0	0	Hemlock				
17	17	0	0	Herbaceous Openland				
64	49	0	15	Lowland Conifers				15
109	86	0	23	Lowland Deciduous	0	23		
87	87	0	0	Lowland Shrub				
62	20	0	42	Lowland Spruce/Fir				42
9	9	0	0	Mixed Upland Deciduous				
322	322	0	0	Northern Hardwood				
66	66	0	0	Treed Bog				
25	25	0	0	Water				
1,573	1,466	1	107	Total Forested Acres	1	23	26	57
	93%	0%	7%	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.

No. C	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)	19	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
2	Unavailable	5D: Unproductive Forest Land	9	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						

Report 4 – Site Conditions

Gwinn Mgt. Unit Eric Brolin : Examiner

3	Unavailable	5D: Unproductive Forest Land	33	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments:						
	Very sparse, slow g	growing ground.					
4	Unavailable	5D: Unproductive Forest Land	15	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments: Very sparse, slow o	growing ground.					
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
	Black ash drainage	between lowland areas.					
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Mgt. Unit

Compartment: #Type! Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				

Mgt. Unit Compartment:
Year of Entry

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

Gwinn Mgt. Unit



Stand	d Level 4 Co	over Type	\$	Size De	ensity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
1	Canopy Species	- Aspen	Size Class	DBH	er Well		69 ppy Species	111-140 Density	N/A Avg. Height	Size	Shallow rolling knobs dense to large, nice quality bigtooth aspen. Fir understory can get dense in areas. South border has softer ground and transitions into more red maple.
	Bigtooth Aspen Balsam Fir Paper Birch	78 7 7	Log Pole/Sapling Pole	12 6 7	69	Ва	llsam Fir	High	Variable	Sapling	OPIC - FMD: A6F4, One of seven hard to access stands with volume, that are coded 7 for merchantability because they are surrounded by very wet area, plus it would be a very long snow plow, because of winter cutting. I did not check the stand this time because of time contraints.
2	4112 - Maple, Asso	Beech, Ch	nerry S	awtimb	er Well	55.0	62	81-110	N/A		Wetter ground solid to red maple with poor potential for better quality sawlogs. Long circular ridge connected by lower conifer drainages. Slight
	Canopy Species	% Cover	Size Class	DBH	l Age	Cano	py Species	Density	Avg. Height	Size	elevation change from the surrounding lowlands turns into dense flats of red maple which range from small sawlog sized trees to dense poles.
	Red Maple	85	Log/Pole	10	62	Ва	ılsam Fir	High	Variable	Sapling	Cedar and birch found mixed in around the edges. Some patches of this
											stand have a very dense understory of balsam fir. Small, dense patches of hemlock were observed and should be excluded from future harvests. Large remnant minor species exist such as aspen, white spruce, and yellow birch within. 170 100 210 150 Average of 130 BA.
											OPIC - FMD: M6A4, one of seven hard to access stands with volume, that are coded 7 for merchantability, because they are surrounded by very wet area, plus it would be a very long snow plow, because of winter cutting. I did not check the stand this time because of time constraints.
3	6122 - Bla	ack Spruce	e P	oletimb	er Well	19.6	150	111-140	N/A		Lowland conifer stand heavy to black spruce. Stand is showing very little
	Canopy Species	% Cover	Size Class	DBH	l Age	Cano	py Species	Density	Avg. Height	Size	decline for its very old age. More fir mixed in the transitions, especially along the north edge.
No	rthern White Cedar	20	Pole/Log	9	130	Ва	ılsam Fir	Medium	>20 feet	Sapling	
	Black Spruce	52	Pole	8	150						OPIC - FMD: FAIRLY GOOD CEDAR, SMALLER SPRUCE & CEDAR IN NW CORNER, SAVE FOR THE DEER. DID NOT TAKE ANY POINTS
	Tamarack	20	Log/Pole	10							IN STAND BECAUSE OF TIME CONSTRAINTS.
	Balsam Fir	8	Pole/Sapling	6							
4	6120 - Lov	vland Ceda	ar Pol	etimbe	r Medium	n 35.2	92	81-110	N/A		Lowland mix dense to cedar along the upland transitions. Areas of black
	Canopy Species	% Cover	Size Class	DBH	l Age						spruce/tamarack within. Any areas with merchantable species is very sparse and unproductive lowland.OPIC - FMD: M4Q4, one of seven
No	orthern White Cedar	62	Log/Pole/Sap	11	92						hard to access stands with volume, that are coded 7 for merchantability,
	Black Spruce	12	Pole/Sapling	7	92						because they are surrounded by very wet area, plus it would be a very long snow plow, because it would be a winter cut. I did not check the
	Paper Birch	6	Pole	7							stand this time because of time constraints.
	Red Maple	6	Pole	7							
	Tamarack	10	Pole	8							
5	6124 - Lowla	and Spruce	e-Fir	Saplin	g Well	4.7	36		N/A		Sapling strip along cedar heavy to conifer. Stand was cut with adjoining
	Canopy Species	% Cover	Size Class	DBH	l Age	Cano	py Species	Density	Avg. Height	Size	aspen to the north but regenerated different.
	Black Spruce	20	Sapling	2	36	Northern	n White Cedar	High	>20 feet	Sapling	
	Red Maple	10	Sapling	3		Ва	ılsam Fir	Low	Variable	Sapling	
	Paper Birch	15	Sapling	3							
	Balsam Fir	40	Sapling/Pole	4	36						
	Quaking Aspen	15	Sapling	3							

Report 7 - Stands



Stand	Level 4 Co	over Type	\$	Size Den	sity	Acres	Stand Age	BA Range	Managed Site	General Comments
6	6122 - Bla Canopy Species Black Spruce	% Cover	Size Class Pole/Sapling	DBH 5		33.3	100	81-110	N/A	Lowland stand transitioning from open bog to lower ground hardwoods. Stunted black spruce along the bog side with more cedar mixed in along the hardwood stands. Very wet ground.
	Red Maple	15	Log/Pole	10						
No	orthern White Cedar	25	Log/Pole	10						
8	6129 - Mixed Co Fo	niferous Lo rest	owland Pol	etimber N	/ledium	15.2	100	1-50	N/A	Low ground pothole bog surrounded by slightly higher lowland hardwoods / red maple. This is a very sparse and wet stand with slow growing trees.
	Canopy Species	% Cover	Size Class	DBH A	Age					
	Black Spruce	45	Pole/Sapling	6	100					
	Tamarack	45	Pole	7						
No	rthern White Cedar	10	Pole/Log	9						
10	6120 - Low			oletimbei		125.9	104	111-140	N/A	Very large lowland stand dense to cedar. Scattered minor species and pockets across the entire stand. Patches of open canopy alder found
	Canopy Species Black Spruce	% Cover	Size Class Pole	DBH 8	Age					within. Transition into higher elevation stands contains more diversity.
Nc	orthern White Cedar	68	Pole		104					Smaller diameter cedar south and around the lake.
INO	Title III Willie Cedal	00	FUIE	1	104					OPIC - FMD: FAIR CEDAR-B FIR 1-3" DBH-
15	4136 - Aspen,			Sapling \		56.8	25	Immature	N/A	Dense aspen saplings. Tamarack saplings can become abundant in patches of lower ground or around the edges transitioning into lowland.
	Canopy Species		Size Class	DBH A						
	Tamarack	15	Sapling/Pole	3	25					OPIC - FMD: A3 is 1-4 " dbh, 15-25 ft tall, some bam, fir ,tamarac, and lowland brush mixed in. Cut in1994'-1995', Permit #38-91-01, wet
	Balsam Fir	7	Sapling/Pole	4	0.5					access, long snow plow.
	Quaking Aspen	60	Sapling/Pole	3	25					•
	Balsam Poplar	10	Sapling/Pole	3	25					
17	622 - Low	rland Shrub)	Nonstoc	ked	87.3			No	Lowland drainage. Alder dense in areas and patches of scattered, stunted black spruce.
18	6117 - Lowland [Conit	Deciduous, ferous	, Mixed Pol	etimber N	/ledium	23.3	98	51-80	N/A	Web of lowland drainage areas. Seasonally flooded/moving water.
	Canopy Species	% Cover	Size Class	DBH A	Age					
	Black Ash	45	Pole	7	98					
	Red Maple	25	Pole/Log	8						
	Yellow Birch	10	Pole/Log	8						
No	rthern White Cedar	10	Pole/Log	9						
	Hemlock	10	Log/Pole	11						
22	6120 - Low	vland Ceda	ar P	oletimbei	Well	280.5	104	111-140	N/A	Very large lowland stand dense to cedar. Scattered minor species and
	Canopy Species	% Cover	Size Class	DBH A	Age					pockets across the entire stand. Patches of open canopy alder found within. Transition into higher elevation stands contains more
	Black Spruce	10	Pole	8						diversity.OPIC - FMD: FAIR CEDAR-B FIR 1-3" DBH-
No	rthern White Cedar	75	Pole	8	104					



Stand	Level 4 C	over Type		Size De	ensity	Acres	Stand Age	BA Range	Managed \$	Site	General Comments
24	4112 - Maple, Asso	, Beech, Ch ociation	erry	Sawtimb	er Well	91.5	90	111-140	N/A		Thinned in 2005. Ranges from poorer quality to areas of good quality hardwood across the stand. Majority is smaller sawlog to pole sized
	Canopy Species	% Cover	Size Class	DBH	l Age	Cano	py Species	Density	Avg. Height	Size	trees. Some areas are dense to maple saplings, especially where openings occur. Strips of paper birch along edges. A couple of lower
	Sugar Maple	70	Log/Pole	11	90	Sug	gar Maple	Medium	10 - 20 feet	Sapling	spots and/or drainages cut across this strand that may need culvert
	Red Maple	16	Log	14							installation. 140 130 80 120 150 160 130 80 90 Average of 120 BA.
	Yellow Birch	7	XLog/Log	18							OPIC - FMD: M6M7, cut prmt# 27-01-01, fair stand of hardwood
				,	1						consisting of hard and soft maple, birch, ironwood, and some spruce. Some raspberry coming in.
26	6118 - Lowland D	eciduous wi	ith Cedar I	Poletimb	er Well	36.2	60	111-140	N/A		Lower ground transitional stand, some higher and drier patches but overall lowland. Denser to poorer quality red maple and paper birch with
	Canopy Species	% Cover	Size Class	DBH	l Age	Cano	py Species	Density	Avg. Height	Size	scattered larger, mature species.
	Paper Birch	12	Pole	8		Ва	ılsam Fir	High	10 - 20 feet	Sapling	
Noi	rthern White Cedar	20	Pole	8	95						OPIC - FMD: F5M4, Leave until next treatment period, when the maple stands to the north will be cut. After subtracting the volume needed for
	White Spruce	6	Log	16							retention, it would not pay to cut this small stand by itself.
	Red Maple	42	Pole/Log/Sa	p 7	60						
28		ack Spruce		oletimbe			86	51-80	N/A		Very sparse, unproductive black spruce stand. 5" - 1 stick trees with scattered saplings and some tamarack poles.
	Canopy Species		Size Class		l Age		py Species	Density	Avg. Height	Size	ocationed capinings and come tamarack poloci.
	Tamarack	10	Pole	7		Blad	ck Spruce	Low	Variable	Sapling	OPIC - FMD: SMALL,SPARSE,FAIR GROWTH,NO BRUSH, DID NOT
	Black Spruce	85	Pole/Sapling	g 5	86						VISIT STAND BECAUSE OF TIME CONSTRAINTS.
29	4112 - Maple, Asso	, Beech, Ch ociation	erry	Poletimb	er Well	3.1	65	111-140	N/A		Small hardwood stand. Access is through cedar and road is grown in wit alder. Stand is very dense with poor quality red maple poles.
	Canopy Species	% Cover	Size Class	DBH	l Age	Cano	py Species	Density	Avg. Height	Size	OPIC - FMD: Poor stand, did not visit stand this time because of time
	Red Maple	93	Pole	8	65		lsam Fir	High	10 - 20 feet	Sapling	constraints.
33	4110 - Sugar N	laple Assoc	ciation	Sawtimb		11.7	85	141-170	N/A		Maple log strand with little diversity. No regen in the understory. Corners are in place and blue line is still visible. 160 150 140 180 100 Average of
	Canopy Species	% Cover	Size Class	DBH	l Age						145 BA.
	Basswood	8	Log	14							
	Sugar Maple	85	Log	14	85						OPIC - FMD: M6M7, Basal area only 100, leave until next time. A mix of hard and soft maple, with a lot of basswood, some spruce and aspen mixed in.
35	6117 - Lowland Con	Deciduous, iferous	Mixed	Saplin	g Well	17.2	25	Immature	N/A		Low poorly drained ground. Dense red maple and fir saplings.
	Canopy Species	% Cover	Size Class	DBH	l Age	Cano	py Species	Density	Avg. Height	Size	OPIC - FMD: Cut in 1993-94, #38-91-01, it is now F2U2, 2-4" dbh, 10-30 ft tall, with a few pole sized cedar, and hemlock.
	Balsam Fir	30	Sapling/Pole	e 3			Alder	Medium	5 - 10 feet	Tall Shrub)
	Red Maple	43	Sapling/Pole	e 3	25						-



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments		
36	6117 - Lowland Con	Deciduous, iferous	, Mixed F	Poletimbe	er Well	32.5	64	81-110	N/A		Lowland mix of hardwood and conifer. Age ranges considerably from pole sized red maple to 120+ year old black spruce. Cedar is more dense in		
	Canopy Species	% Cover	Size Class	DBH	Age	Cano	py Species	Density	Avg. Height	Size	— and some paper pirch. Allow one more inventory cycle to add red ma		
No	rthern White Cedar	10	Pole/Log	9		Ва	ılsam Fir	Medium	Variable	Sapling			
	Black Ash	7	Pole/Sapling	7									
	Red Maple	55	Pole	7	64						OPIC - FMD: CUT OVER-BALSAM 2-5 FT OVER MOST OF STAND- POOR QUALITY Y BIRCH & B ASH LOGS-FAVOR BALSAM-SITE IS		
	Paper Birch	10	Pole/Log	9							FAIRLY WET		
38	6129 - Mixed Co Fo	oniferous Lo orest	owland F	Poletimbe	er Poor	22.0	50	Unspecified	N/A		Lowland mix with denser cedar in areas. OPIC - FMD: Q4L OVERALL.POOR QUALITY, DID NOT CHECK		
											STAND THIS TIME BECAUSE OF TIME CONSTRAINTS.		
39	4110 - Sugar M	laple Asso	ciation :	Sawtimbe	er Well	69.6	90	111-140	N/A		Maple stand quite variable in size and species from one end to the other.		
	Canopy Species	% Cover	Size Class	DBH	Age	Cano	py Species	Density	Avg. Height	Size	Areas of lower red Maple ground along transitions. Patches of maple regeneration otherwise fairly open understory across most of the stand.		
	Sugar Maple	77	Log/Pole	12	90		gar Maple	Medium	Variable	Sapling	Some patches along the lowland stand are heavy to sapling/small poles		
	Red Maple	12	Log/Pole	12				1			and may be excluded form next harvest. A couple of vernal pools are present within. 110 90 180 140 120 130 130 150 150 130 Average of 135		
											OPIC - FMD: M6M7, Cut in 1993-94, #38-91-01, stand is a mix of hard and soft maple, birch basswood, some fir , and hemlock. Some raspberrys coming in.		
40	4130	- Aspen		Sapling	Well	16.4	16	Immature	N/A		Softer ground with some lowland aspen mixed in. Transitions into		
40			Ci-a Class			10.4	10	mmatare	14/7		lowlands along the south border. Road in the west half is used as a		
	Canopy Species Quaking Aspen	% Cover	Size Class Sapling	DBH 2	Age						private camp access road. Some dense fir patches on borders.OPIC -		
	Balsam Poplar	15	Sapling	2	10						FMD: A2U1F1 now. Cut in 2003 by LaFleur under permit # 025-01-01, A2 is 1/2 to 2" dbh. 10-20 ft. tall.		
	Bigtooth Aspen	30	Sapling	3	16								
	Balsam Fir	10	Pole/Sapling		10								
42	6129 - Mixed Co		, ,	Poletimbe	er Poor	11.0	50	Unspecified	N/A		Lowland conifer mix.		
74	Fo	orest											
											OPIC - FMD: LEAVE FOR WILDLIFE AND DIVERSITY.		
43	4130	- Aspen		Sapling	Well	75.5	8	Immature	N/A		Aspen sapling stand with drainages webbed within. Some scattered		
	Canopy Species	% Cover	Size Class	DBH	Age						maple and ash poles.OPIC - FMD: A6F4, SMALL,POOR QUALITY ASPEN-LOTS OF BALSAM REPROCLEARCUT NOW. ***Stand		
	Quaking Aspen	100	Sapling	2	8						harvested as "Ironclad Swamp Buck" #002-11-01 - cut December, 2011.		
45	4138 - <i>A</i>	Aspen (OI)	ſ	Poletimbe	er Well	17.0	57	111-140	N/A		OPIC - FMD: A6F4M4, not quite old enough, cut next treatment period.		



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range Managed Site		ite	General Comments	
47	4110 - Sugar Maple Association			Sawtimber Well		59.3	90	111-140	N/A		Good quality hardwood logs, dense to sugar maple. Southeast corner has some large aspen and a sliver of lowland conifer. No maple	
	Canopy Species	% Cover	Size Class	DBH	Age	Cano	py Species	Density	Avg. Height	Size	regeneration and not much in the understory across most of the stand.	
	Sugar Maple	73	Log/Pole	13	90	Sug	ar Maple	Low	>20 feet	Pole	The south tip has a young fir understory with more pole sized trees.	
	Basswood	10	Log	15		Iro	nwood	Trace	Variable	Sapling	Small patches of ironwood regeneration are found within. Past marking	
						Ва	lsam Fir	Low	Variable	Sapling	left a very wide range of BA across the stand. 110 120 150 100 80 100 70 160 120 130 140 140 90 90 Average of 115 BA across the entire	
											stand. Very dense patches with some lighter BA areas around the edges and the south tip.	
											OPIC - FMD: M6M7, Cut in 2003 by LaFleur under permit #25-01-01, a mix of hard and soft maple, birch, basswood, blackchery, aspen and fir. Lots of raspberry also.	
49	6120 - Lo	wland Ceda	ar	Poletimb	er Well	47.4	130	111-140	N/A		Dense stand of cedar.	
	Canopy Species	% Cover	Size Class	DBH	Age						OPIC - FMD: FAIRLY GOOD CEDAR, SMALLER SPRUCE & CEDAR IN	
No	rthern White Cedar	80	Pole/Log	9	130						NW CORNER, SAVE FOR THE DEER. DID NOT TAKE ANY POINTS	
	Black Spruce	15	Pole	8							IN STAND BECAUSE OF TIME CONSTRAINTS.	
51	4130 - Aspen			Poletimber Well		5.3	36 1-50		N/A		Solid to aspen sapling - small sized poles. Very few fir saplings in	
	Canopy Species	% Cover	Size Class	DBH	Age	Cano	py Species	Density	Avg. Height	Size	understory.OPIC - FMD: Cut - Permit # 5-83-1. A5A1 now with some black cherry mixed in.	
	Quaking Aspen	95	Pole/Saplin	ng 5	36	Ва	lsam Fir	Trace	Variable	Sapling	Black cherry mixed in.	
52	4113 - R.N	laple, Conit	er	Sapling	Well	7.4	14	Immature	N/A		Young sapling stand. Dense with fir and red maple stump sprouts.	
	Canopy Species	% Cover Size Class		DBH Age							OPIC - FMD: Cut prmt.#27-01-01, finished in 2005, it is now U1F1 (cut all	
	Balsam Fir	27	Sapling	3	14						merch, leave pine, cedar, hem)	
	Red Maple	67	Sapling	2	14							
53	4312 - Hemlock	, Mixed De	ciduous	Sawtimb	er Well	5.7	182	111-140	N/A		Did not look at this stand YOE 2021. Note of nice hemlock stand from past inventory.	
											OPIC - FMD: H9H6, nice stand to leave for wildlife and diversity, it is like a park.	
54	6120 - Lowland Cedar		Poletimber Well		66.1	93	111-140	N/A	4	Larger diameter cedar with patches of canopy lowland hardwoods and plack spruce speckled in. Very dense understory of small diameter cedar		
	Canopy Species	% Cover	Size Class		Age	Cano	py Species	Density	Avg. Height	Size	around 5" average but 90+ years old. More solid to cedar in the north	
No	rthern White Cedar	55	Log/Pole	12	93	Northern	White Ceda	r High	>20 feet	Sapling	portion. Would not be able to operate without damaging oodles of cedar.	
	Black Spruce	15	Pole	9	93	Ва	lsam Fir	Low	Variable	Sapling	OPIC - FMD: NW PART OF STAND HA0 LESS HDWD & SMALLER	
	Red Maple	10	Pole	8							CEDAR & BALSAM. LEAVE FOR WILDLIFE AND DIVERSTIY	
	Paper Birch	20	Pole	8	44							
55	6224 -	Treed Bog		Nonsto	cked	66.1			No		Open bog with scattered, unproductive black spruce 10'-20' tall.	



Stand	d Level 4 C	over Type	s	ize De	nsity	Acres	Stand Age	BA Range	Managed Site		General Comments
58	4130	- Aspen	Po	oletimb	er Well	50.8 36		81-110	N/A		Great quality aspen poles with mixed maple ranging from saplings to scattered log sized trees. Some fir and areas with sugar maple saplings
	Canopy Species	anopy Species % Cover Size Class		DBH Age		Canopy Species		Density	Avg. Height	Size	in the understory but fairly open across much of the stand. A small
	Quaking Aspen	55	Pole	7	36	Ва	lsam Fir	Medium	>20 feet	Sapling	lowland patch with mixed conifer is in the southwest corner of this stand.
	Sugar Maple	8	Log/Pole/Sap	10		Sug	ar Maple	Medium	Variable	Sapling	
	Red Maple	10	Pole/Log	9							OPIC - FMD: Cut prmt.# 5-83-1, nice aspen coming in, with a mix of maple, fir, hemlock, birch, and spruce.
	Bigtooth Aspen	19	Pole	8							maple, III, Hermook, biron, and spruce.
60	4110 - Sugar M	laple Assoc	ciation Sa	awtimb	er Well	23.9 80		111-140	N/A		Good quality sugar maple. Ranges from poles to small saw logs. Very
	Canopy Species	% Cover	Size Class	DBH	Age	Cano	py Species	Density	Avg. Height	Size	saplings. Canopies have very little room to grow across parts of the
	Sugar Maple	89	Log/Pole	12	80	Sug	ar Maple	Low	10 - 20 feet	Sapling	stand. A few interior gaps show little/no regen. Some larger diameters
						Irc	nwood	Low	10 - 20 feet	Sapling	and a little more diversity as you head southwest across compartments
						Leaf	therwood	Low	< 5 feet	Tall Shrub	78 and 75. 140 100 110 100 100 130 140 120 100 100 Average of 115 BA (from C77, S60).
											120 90 150 130 Average of 125 BA (C75, S55).
											Hold and prescribe all hardwood stands in this area in YOE 2028 with compartment 75 inventory cycle. This will allow stand 60 BA to become more uniform across the stand.
											OPIC - FMD: M6M7, Area cut in 1983, # 5-83-1. Cut again in 2003-4 under permit 026-01-01, it is now a mix of hard and soft maple, basswood, birch, aspen, spruce, and even some cedar
62	Co	191 - Mixed Upland Decidud Conifer						51-80	N/A		Secluded stand with small elevation humps mixed with softer lowland areas. Very light BA consists of pole sized small paper birch and scattered larger hemlock and white pine. Very dense understory of fir
	Canopy Species		Size Class		Age		py Species	Density	Avg. Height	Size	saplings. Very wet limited access. Possible paper birch/white pine seed
	White Pine	15	XLog	24	126	Ва	lsam Fir	High	Variable	Sapling	tree in the future once birch and fir matures.
	Hemlock	15	XLog/Log	20							OPIC - FMD: Stand that is surrounded by wet area, hard to get to. Will
	Red Maple	25	Pole	5							not be cut. Leave for wildlife and diversity, Did not check stand this time
	Paper Birch	45	Pole/Sapling	6	40						because of time constraints.
63	4130	4130 - Aspen Poletimber Well		19.6	19.6 27 Immatu		N/A		Young aspen poles. On the verge of large saplings to 5"-6" average poles ¬ in 2019.		
	Canopy Species	% Cover	Size Class	DBH	Age	Cano	py Species	Density	Avg. Height	Size	111 2013.
	Quaking Aspen	50	Pole/Sapling	5	27	Ва	lsam Fir	Medium	Variable	Sapling	OPIC - FMD: A5F4, Cut prmt# 36-91-01, nice aspen with some maple,
	Bigtooth Aspen	40	Pole/Sapling	5	27						birch, fir, and spruce mixed in.
65	612 - Lowland (Coniferous	Forest Po	oletimb	er Well	11.4	50	Unspecified	N/A		Did not access this stand in 2019. Bog area very difficult to access.
71	500 -	- Water		Nonsto	cked	11.2		Unspecified	No		OPIC - FMD: Little Kiwi Lake
98	500 -	- Water	!	Nonsto	ocked	13.4			No		OPIC - FMD: Big Kiwi Lake

Gwinn Mgt. Unit

Report 7 - Stands



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age BA Range	Managed Site	General Comments
401	3102 - Grass	Nonstocked	4.9		No	Scattered conifer.OPIC - FMD: TORDONED 6-88
402	3102 - Grass	Nonstocked	1.8		No	Growing in with conifer. OPIC - FMD: TORDONED 1982
404	3102 - Grass	Nonstocked	2.6		No	Growing in with conifer. OPIC - FMD: TORDONED 1982
405	3102 - Grass	Nonstocked	3.8		No	Scattered conifer. OPIC - FMD: TORDONED 1982
407	3102 - Grass	Nonstocked	2.5	Unspecified	No	Grass opening
409	3102 - Grass	Nonstocked	1.6	Unspecified	No	Grass opening growing in with conifer saplings/poles along the edges.