

Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32230 Entry Year: 2027 Acreage: 1,376

County: Marquette

Management Area: Suomi Till and Outwash Plain

Stand Examiner: Kyle Gould

Legal Description:

T45N R28W Sec's 9, 10, 15, and 16

Identified Planning Goals:

See Chain Lakes Moraine Management Area section of the WUP Regional State Forest Management Plan.

Soil and topography:

Generally level to slightly rolling terrain. Soils range from well drained to very poorly drained and consist of Sayner-Rubicon, Rubicon-Keweenaw, and Sagola-Rubicon in the uplands, and Tawas-Derford mucks and Carbondale-Tawas soils in the lowlands. Surface cobbles/boulders exist throughout most of the upland soil types.

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

Ownership is predominantly State with intermixed private inholdings. An exception being the Michigan Northwoods Club, owning approximately 10,000 acres to the east of this compartment. Development in this vicinity is very limited and is predominantly seasonal camps. Two miles to the north is the end of Marquette County Rd. 581 and there are permanent residences in that location. Land use in and around the compartment is commercial forest production, hunting, fishing, berry picking, trapping, and snowmobiling.

Unique Natural Features:

The headwaters of both the Wild West Creek and the Camp Eleven Creek are in and around this compartment.

Archeological, Historical, and Cultural Features:

Historically, sharptail grouse management took place in and around this compartment. Several old railroad spurs exist in the general area as a result of the pine logging era.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment contains headwater reaches of Wild West Creek and Camp Eleven Creek. Wild West Creek and Camp Eleven Creek are designated Type 1 trout streams less than 50-ft wide and have predicted mean July water temperatures of 61.3 and 62.2°F (cold streams), respectively. 300-ft buffers are recommended for Wild West Creek and Camp Eleven Creek 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 9-10 & 14-17, T45N R28W, Marquette CountyNo known potential exists for commercial oil & gas production in this part of the state. No active sand/gravel operations are known to exist in the area. There may be some potential for production of minor amounts of sand & gravel within the compartment on the uplands, but the compartment may be too far

from populated areas (commercial markets) for any aggregate resources to have significant value beyond use for local road maintenance. No past metallic mineral mining has occurred in this area, but some sparse exploration of State-owned minerals occurred in the late 1980s just south of the compartment. Potential for metallic and/or critical minerals beneath the compartment is considered low at this time, and there is no current mineral leasing activity involving State-owned mineral rights within two miles of the compartment. 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:

Primary access to the compartment is via Co. Rd. CAA (Flat Rock Road) which originates at the terminus of Marquette Co. Rd. 581. Various two-track woods roads and county roads traverse the compartment providing good access. Some roads are winter access only.

Survey Needs:

Recreational Facilities and Opportunities:

No recreational facilities exist and there are no opportunities exist for development.

Fire Protection:

This compartment is located at the extreme south end of the 581 Zone dispatch. With the boundary change to the zone dispatch area, only a portion of the north part of the compartment is within the zone.

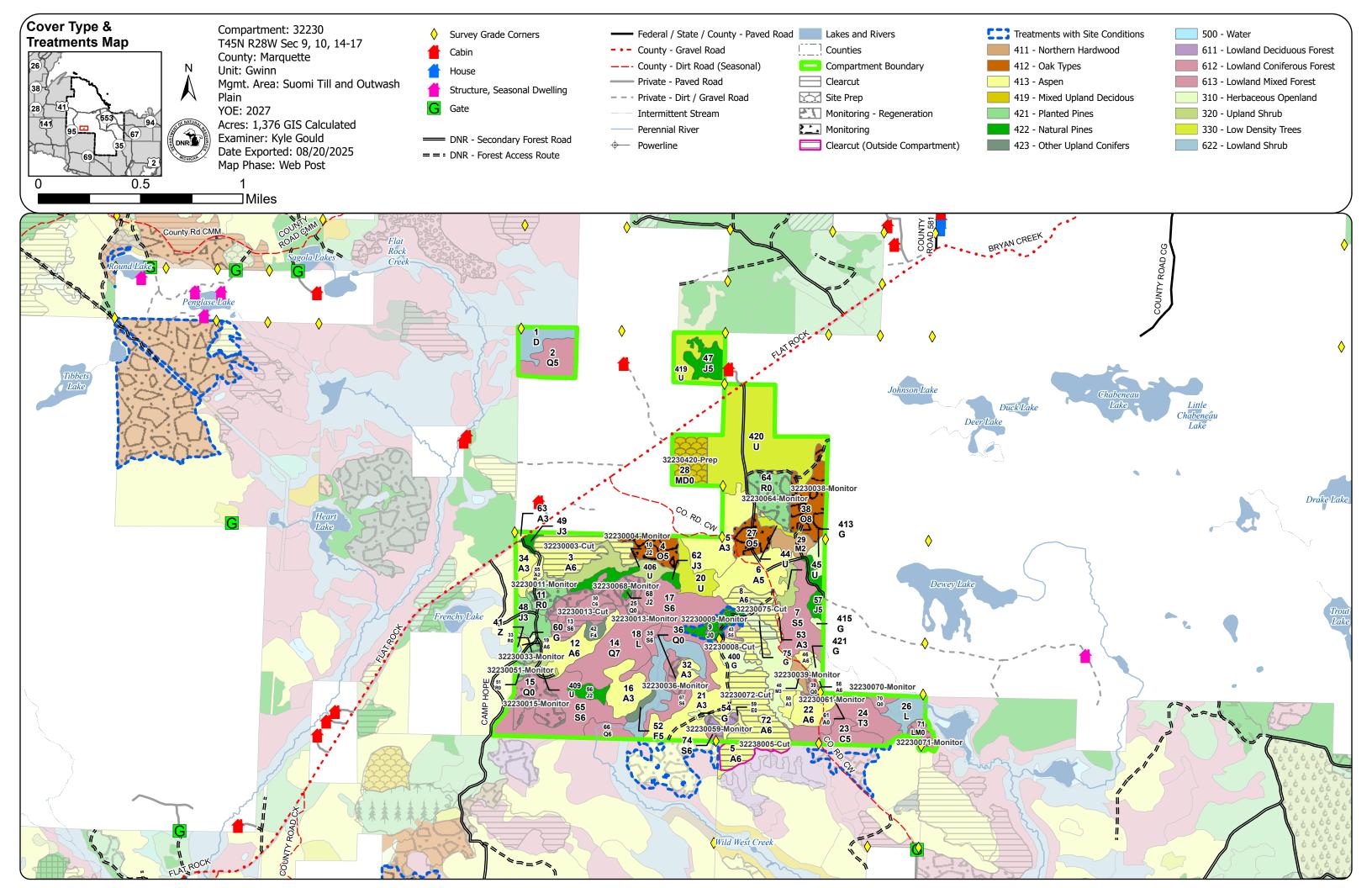
Additional Compartment Information:

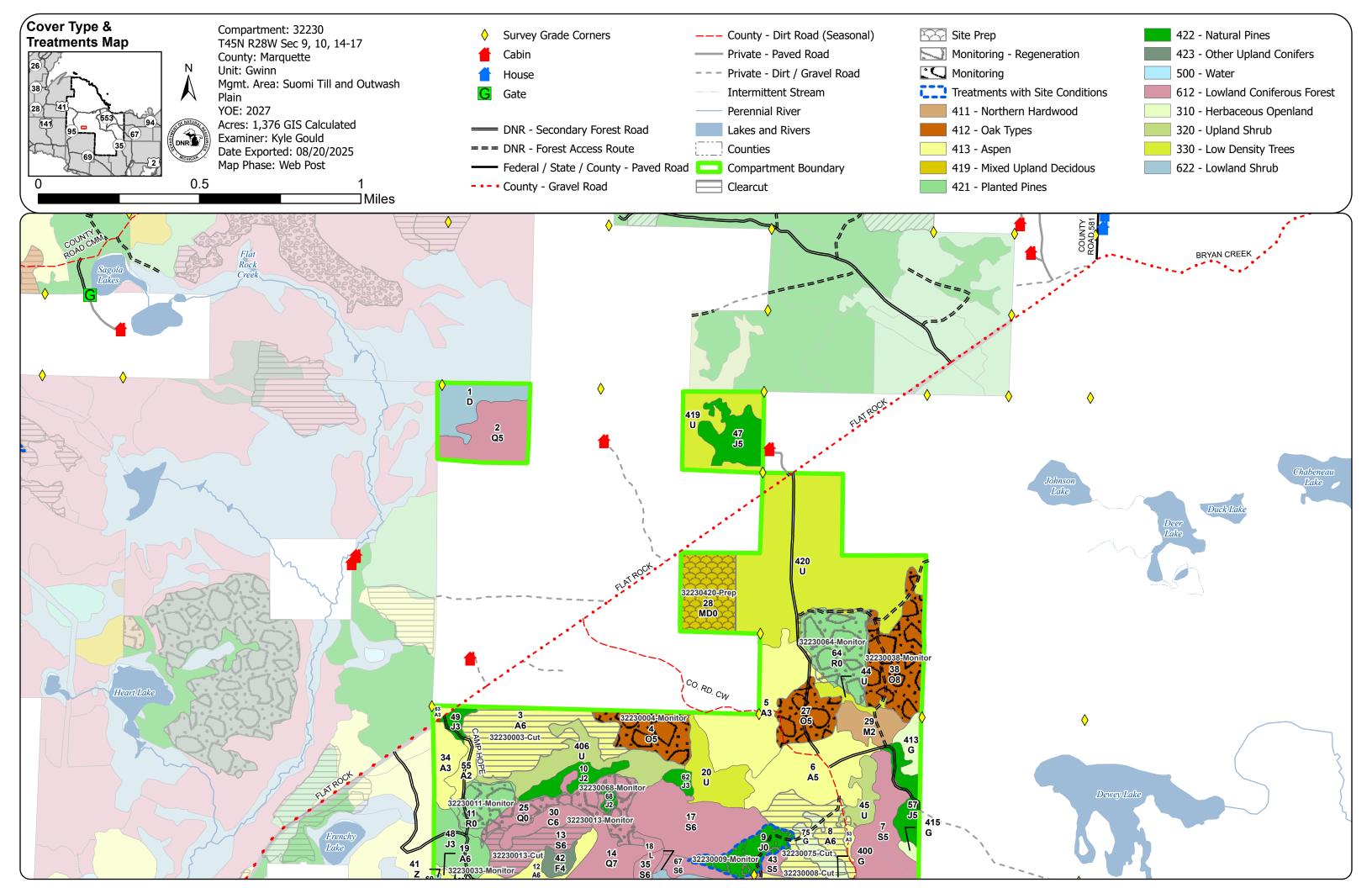
The following reports from the Inventory are attached:

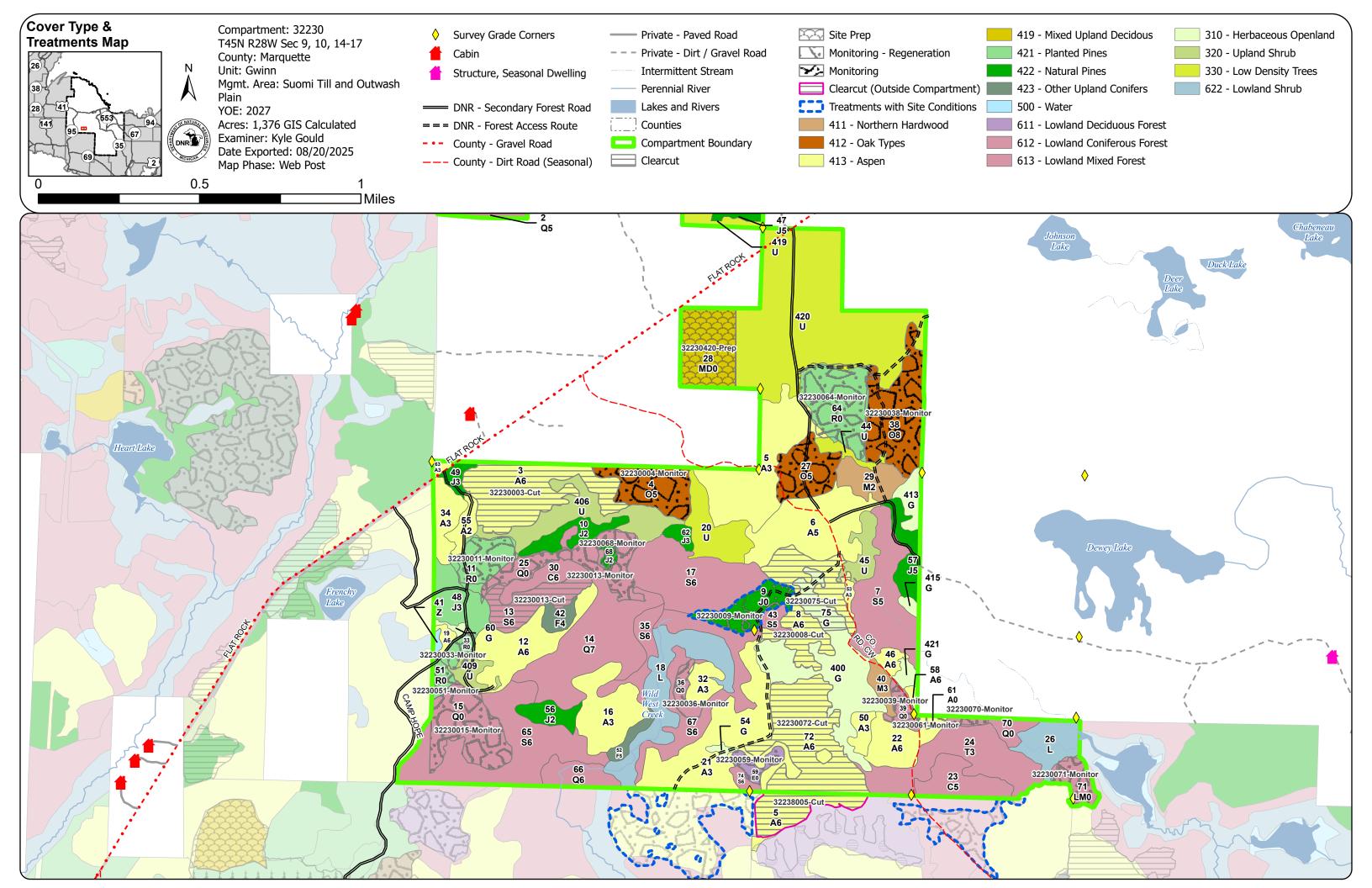
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

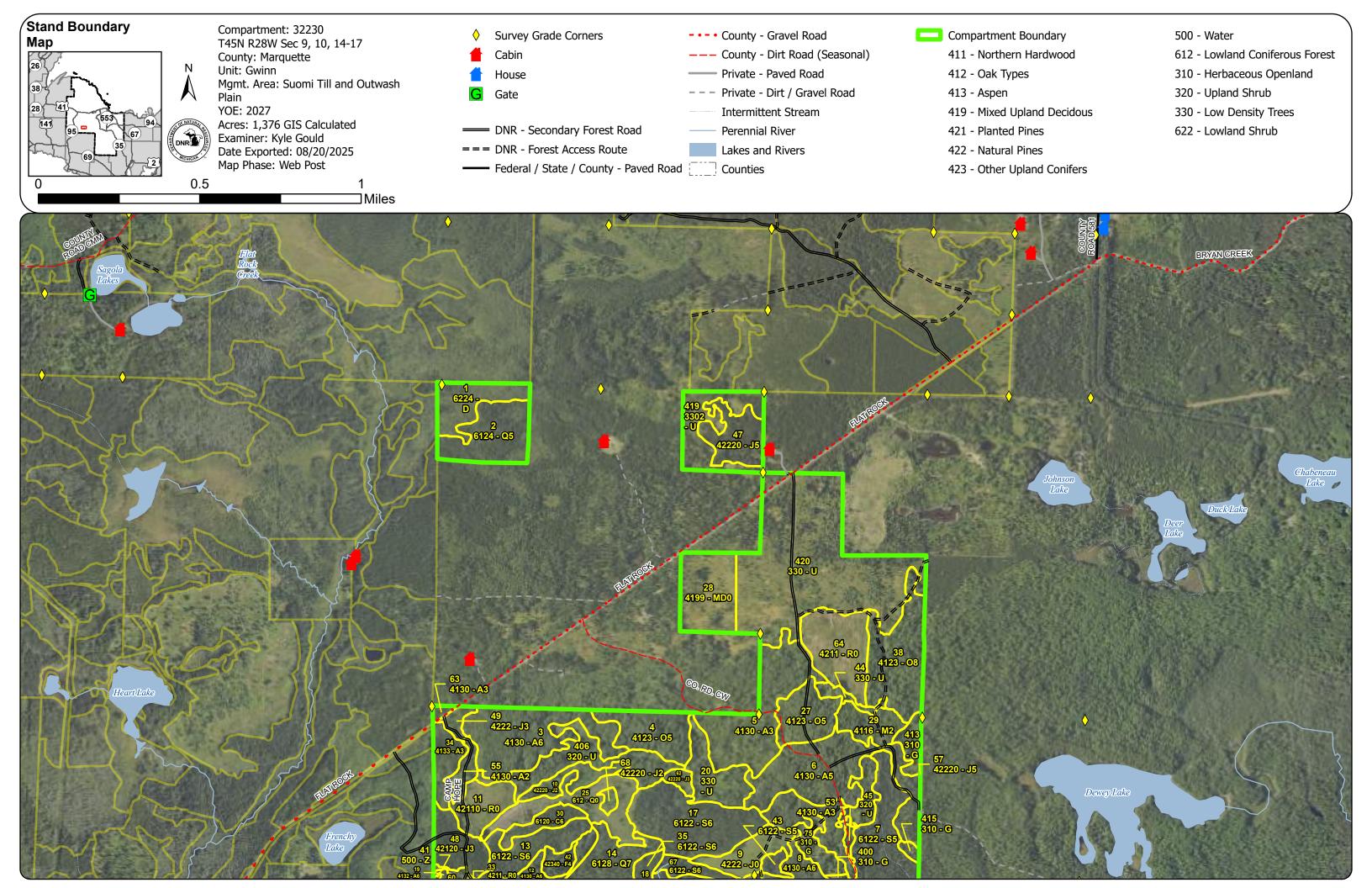
The following information is displayed, where pertinent, on the attached compartment maps:

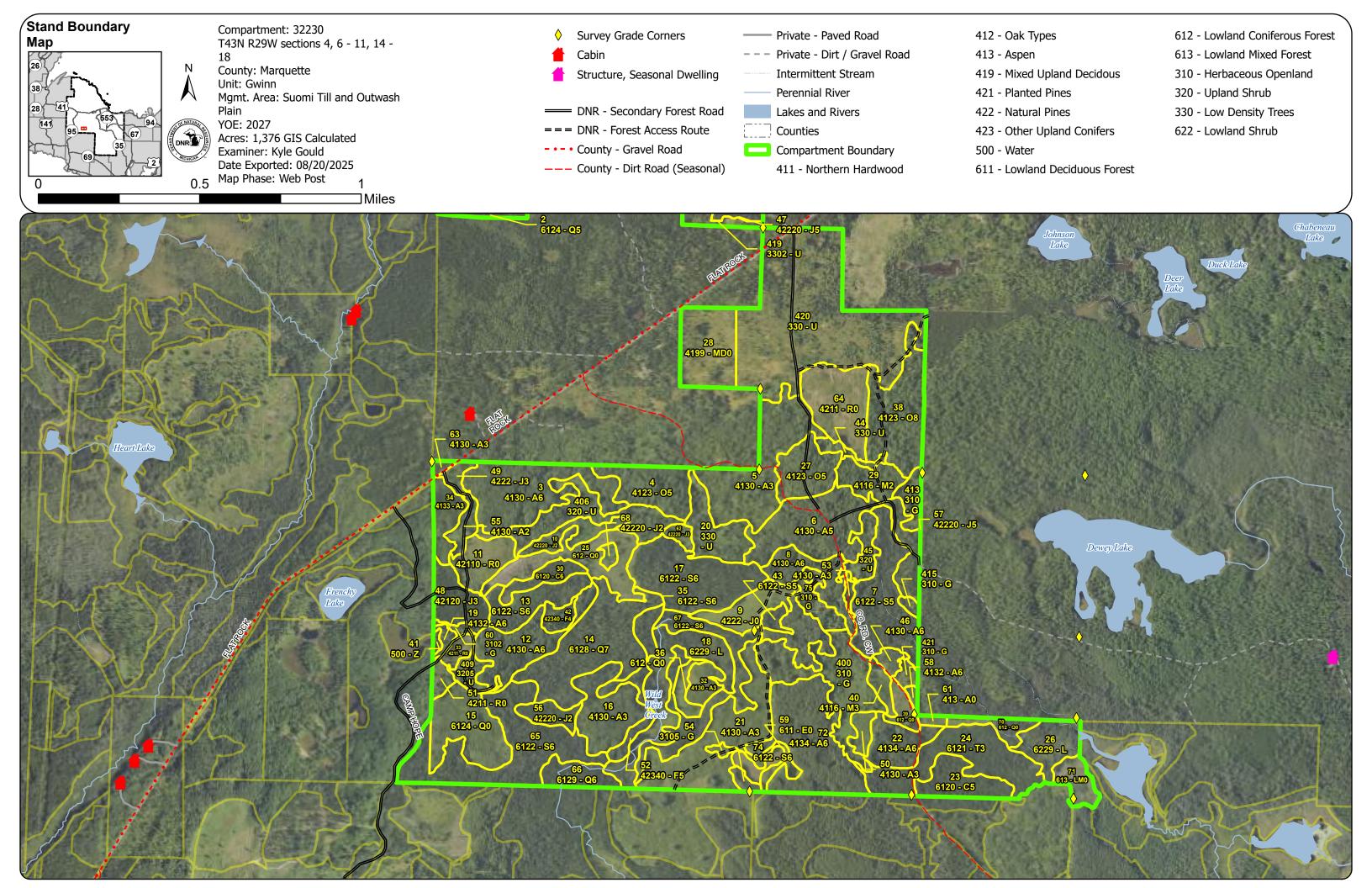
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

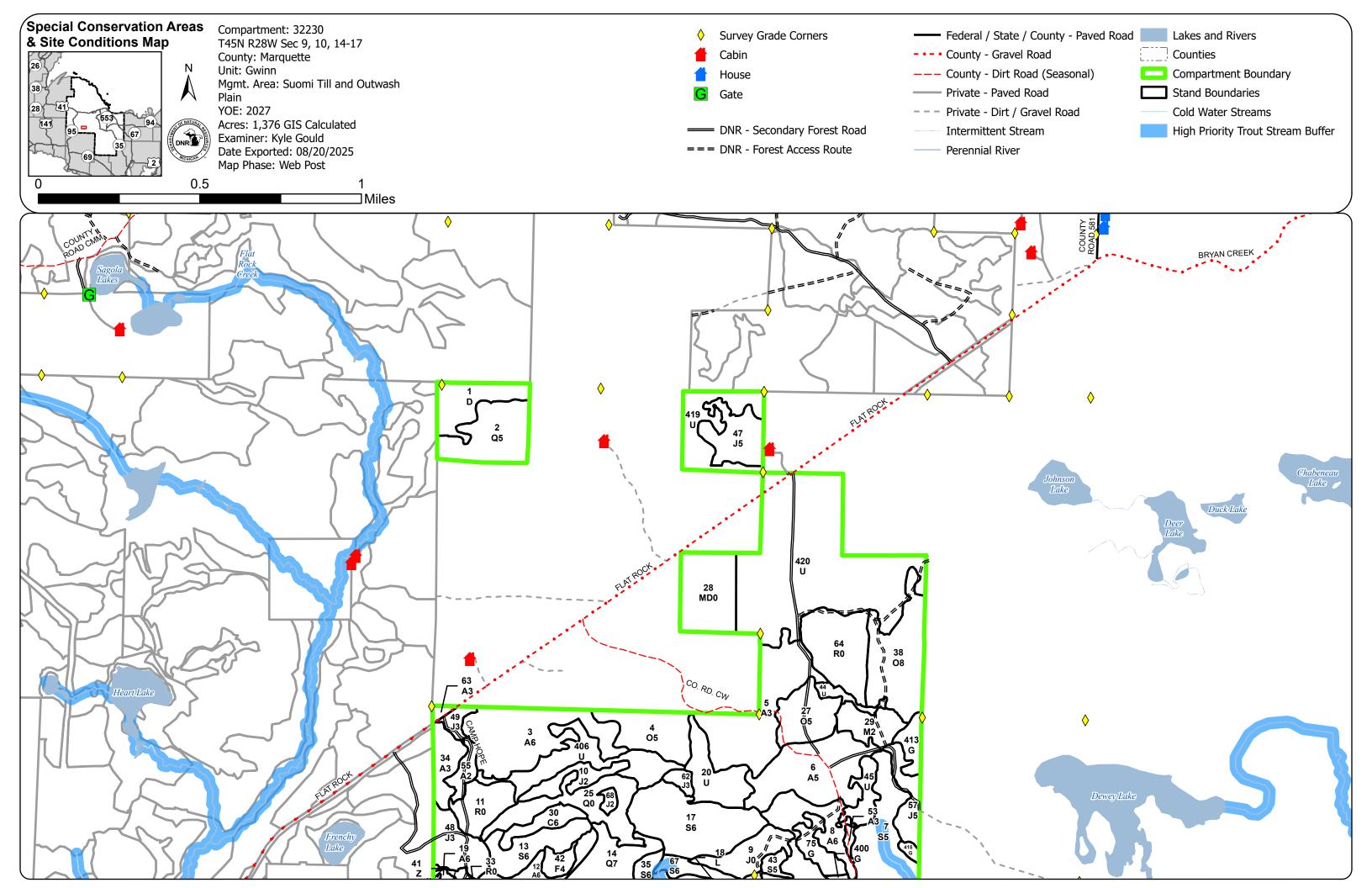


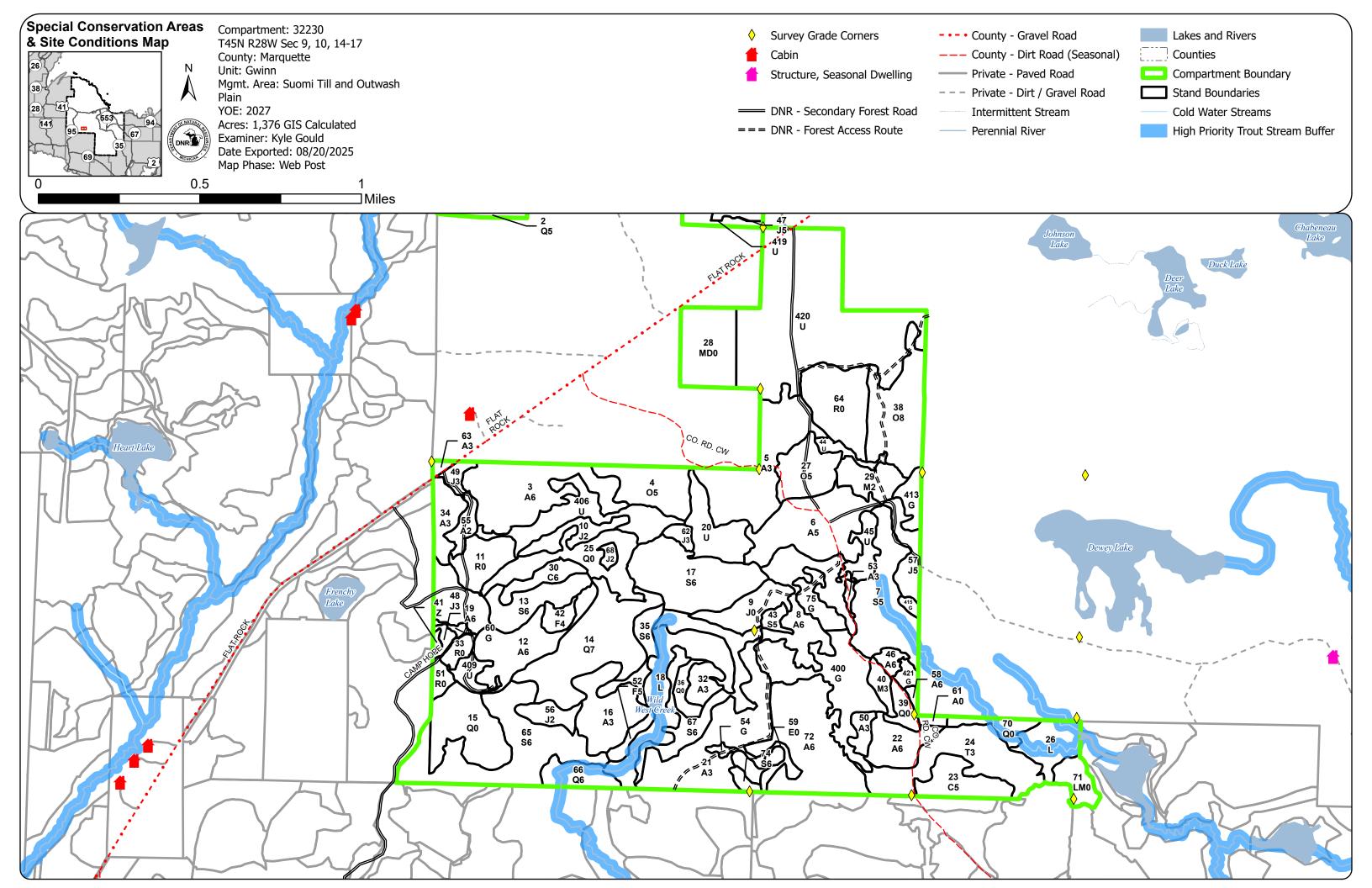












Gwinn Mgt. Unit

Kyle Gould: Examiner

Compartment 230 Year of Entry 2027



Age Class

		KO S	3 /2	\$ \\ \phi_{\text{s}}	P S	3 / 6		3/8	8/8	R. S	*		S ZZ	<u> </u>				ş ^x ze ^x	LOS LOS
Aspen	2	62	51	38	85	0	125	0	0	0	0	0	0	0	0	0	0	0	362
Cedar	0	0	0	0	0	0	0	0	0	0	8	0	16	0	0	0	0	0	24
Herbaceous Openland	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Jack Pine	14	0	19	23	29	0	0	0	0	0	0	0	0	0	0	0	0	0	85
Low-Density Trees	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	160
Lowland Conifers	72	0	0	0	0	0	0	0	27	0	59	0	0	0	0	0	0	0	157
Lowland Deciduous	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Mixed Forest	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Shrub	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Spruce/Fir	0	0	0	0	0	0	0	3	0	39	110	39	0	0	0	0	0	0	190
Mixed Upland Deciduous	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Northern Hardwood	0	5	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Oak	0	0	0	0	0	0	0	0	21	18	36	0	0	0	0	0	0	0	75
Red Pine	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Tamarack	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Treed Bog	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Upland Shrub	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Upland Spruce/Fir	0	0	0	0	0	5	0	4	0	0	0	0	0	0	0	0	0	0	9
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	508	67	70	61	163	5	125	7	48	57	213	39	16	0	0	0	0	0	1376



Report 2 – Treatment Summary

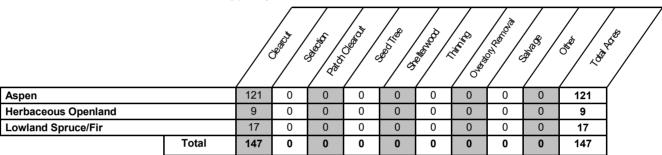
Gwinn Mgt. Unit Year of Entry: 2027

Acres of Harvest

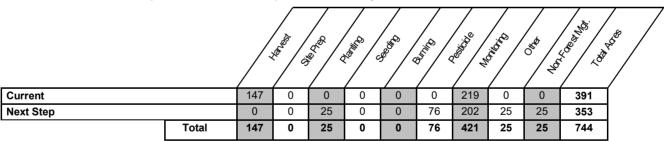
Compartment 230
Total Compartment Acres: 1,376

Commercial Harvest - 294 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Stand

CoverType

Size

Density

Stand

Age

Report 3 -- Treatments

Treatment

Type

Treatment

Method

Compartment: 32230 Year of Entry: 2027

Age

Structure

Cover Type

Objective

DEPARTMEN	OF NATURAL PROPERTY OF NAT
	Habitat

Cut

Pro	nosed	Treatm	ents:
1 10	poseu	<u> </u>	<u> 101113.</u>

Treatment

Name

3 32230003-Cut 42.3 4130 - Aspen 6 52 51-80 Harvest Clearcut 4319 - Mixed Planting No Upland Forest Record

<u>Prescription</u> Clearcut with retention. Leave all oak, red pine, and white pine. Consider putting retention around a wet pocket in the interior of the stand.

BA

Range

Specs:

s

t a

n

d

Next Step Monitoring, Natural Regen (Re-Inventory)

Acres

Treatments:

Acceptable aspen, pine, red maple, spruce, fir

Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

8 32230008-Cut 31.5 4130 - Aspen 6 55 51-80 Harvest Clearcut 4319 - Mixed Planting No Upland Forest Record

<u>Prescription</u> Clearcut with retention. Leave all white pine, red pine, and oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, jack pine, red pine, oak, red maple, spruce, fir

Regen:
Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2026

 13
 32230013-Cut
 17.2
 6122 - Black Spruce
 6
 97
 81-110
 Harvest
 Clearcut
 612 - Lowland
 Planting
 No

 Coniferous
 Record

 Forest

<u>Prescription</u> Clearcut with retention. Leave all cedar. Leave all white pine over 12" DBH. Winter harvest due to wet soils. Consider leaving retention around <u>Specs:</u> pond in the west end of the stand. Make sure some large tamarack is left in the retention area.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce, tamarack, balsam fir, aspen

Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

Gwinn Mgt. Unit Report 3 -- Treatments Compartment: 32230 s Year of Entry: 2027 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Habitat n CoverType Density Method Objective Structure Name Age Range Type Cut d 32230072-Cut 47.2 4134 - Aspen, 81-110 Harvest Clearcut 413 - Aspen **Planting** No Spruce/Fir Record Prescription Clearcut with retention. Leave oak, red pine, and white pine. Leave retention where it makes sense. There may be a little bit of wet ground at the south end of the stand. Specs: Next Step Monitoring, Natural Regen (Re-Inventory) **Treatments:** Acceptable Aspen, pine, fir, spruce Regen: Other Comment: Site Condition: Proposed Start Date: 10/01/2026 32230075-Cut 8.8 310 - Herbaceous 99 Harvest Clearcut 310 -Previous No Openland Herbaceous Inventory Openland Prescription Clearcut. Leave no retention. Opening maintenance cut. Specs: Next Step Monitoring, Natural Regen (Re-Inventory) **Treatments:** Acceptable grass. aspen, jack pine Regen: Other Comment: Site Condition: Proposed Start Date: 10/01/2026 32238005-Cut 16.2 4130 - Aspen 6 50 Unspeci Harvest Clearcut 413 - Aspen **Planting** No Record fied Prescription Clearcut with retention. Leave all oak, white pine, and red pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory) Treatments:

Acceptable aspen, maple, spruce, fir, pine.

Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

Approved Treatments:

32230004-39.4 4123 - Red Oak 5 51-80 Monitoring Monitoring 412 - Oak Types Current No Monitor Prescription Monitor for oak wilt Specs: Next Step Treatments: Acceptable Regen: Other Comment: Site Condition:

S t		Gwin	n Mgt. Unit		Repor	t3 1	Freatments		Compartmer Year of Entry		DNR DNR
a n Tre	eatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habita Cut
Proposed	Start Date	10/01/20	024								
	2230009- Monitor on	14.4	4222 - Natural Jack Pine	0	1		Monitoring	Monitoring - Regeneration	4212 - Planted Jack Pine		No
Next Step Treatmen											
Acceptab Regen:	<u>le</u> Jack P	ine									
Other Comment		t to Treat =	= 100%								
Site Cond	lition: Lon	g-Term Re	etention								
Proposed	Start Date	10/01/20	026								
	2230011- Monitor	12.64	2110 - Planted Red Pine	0	0	Immatu re	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine	Planting Record	No
Prescription Specs:	<u>on</u>										
Next Step Treatmen		de, Skidde	r - Release								
Acceptab Regen:	<u>le</u> Red piı	ne									
Other Comment		t to Treat =	= 100%								
Site Cond	lition:										
<u>Proposed</u>	Start Date	10/01/20	025								
ľ	2230013- Monitor	22.7	612 - Lowland Coniferous Forest	0	0		Monitoring	Monitoring - Regeneration	6122 - Black Spruce	Planting Record	No
Prescription Specs:	<u>on</u> Regen	check as p	oer TMS guidance.								
Next Step Treatmen											
Acceptab Regen:	<u>le</u> Black s	pruce, tam	narack, cedar, balsar	n fir, balsa	ım popla	ır.					
Other Comment		t to Treat =	= 100%								
Site Cond	lition:										
Proposed	Start Date	10/01/20	034								
	2230015- Monitor	28.7	6124 - Lowland Spruce-Fir	0	0		Monitoring	Monitoring - Regeneration	6124 - Lowland Spruce-Fir	Planting Record	No
		ediate natu	ral regen survey. Se	edlings are	e starting	to show ι	up in stand. Need	_	•		
<u>Next Step</u> <u>Treatmen</u>											
Acceptab Regen:	<u>le</u> Black s	pruce, tan	narack, cedar, balsar	n poplar.							
Other Comment		appears to	be showing up arou	ınd stumps	s and are	eas where	sphagnum is pre	esent.			

Proposed Start Date: 10/01/2034

Site Condition:

S t		Gwinn	Mgt. Unit		Repoi	rt3 T	reatments		Compartmen Year of Entry		DNR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habit Cut
33	32230033- Monitor	4.5 4	211 - Planted Red Pine	0	0	lmmatu re	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine	Planting Record	No
Presci Specs											
<u>Next S</u> <u>Treatr</u>	<u>Step</u> Pesticion <u>nents:</u>	de, Skidder	- Release								
Accep Reger	<u>otable</u> Red pir <u>n:</u>	ne									
Other Comm		t to Treat =	100%								
	ondition:										
Propo	sed Start Date:	10/01/20	25								
36	32230036- Monitor	5.1	612 - Lowland Coniferous Forest	0	0		Monitoring	Monitoring - Regeneration	6122 - Black Spruce	Planting Record	N
Presci Specs	ription :-										
Next S	_										
	nents:										
		pruce, tama	arack, balsam fir, ja	ck pine, as	spen.						
<u>Reger</u> Other		t to Treat =	100%								
Comm	nent:										
Site C	ondition:										
Propo	sed Start Date:	10/01/20	34								
38	32230038- Monitor	35.3	4123 - Red Oak	8	90	51-80	Monitoring	Monitoring	4123 - Red Oak	Planting Record	N
Presci Specs		for forest h	nealth, oak wilt conc	erns.							
Next S Treatr	Step nents:										
Accep Reger											
Other Comm											
Site C	ondition:										
<u>Propo</u>	sed Start Date:	10/01/20	26								
39	32230039- Monitor	4.1	612 - Lowland Coniferous Forest	0	1		Monitoring	Monitoring - Regeneration	6122 - Black Spruce	Planting Record	N
Presci Specs	<u>.</u>										
Specs Next S											

Site Condition:
Proposed Start

Other Comment:

Proposed Start Date: 10/01/2034

Percent to Treat = 100%

Immatu

re

Monitoring -

Regeneration

Red Pine

Monitor **Prescription** Specs:

Pesticide, Skidder - Release; ; Monitoring, Artificial Regen (3yr) Next Step

Pine

Treatments:

<u>Acceptable</u> Red pine

Regen:

Percent to Treat = 100% **Other**

Comment:

Site Condition:

Proposed Start Date: 10/01/2024

Proposed Start Date: 12/01/2025

Comment:
Site Condition:

Gwinn Mgt. Unit Report 3 -- Treatments Compartment: 32230 s Year of Entry: 2027 t а **Treatment** Acres Stand Size Stand ВА **Treatment Treatment Cover Type** Age Habitat n Name CoverType Density Age Range Type Method Objective Structure Cut

Total Treatment 407.1 Acreage Proposed:

Report 4 - Site Conditions

Gwinn Mgt. Unit

Kyle Gould: Examiner

Compartment: 230 Year of Entry: 2027



Availability for Management Total Acres Acres Avail Acres **Dominant Site Conditions** With Condition Not Available Available Acres 2G 3J 5A 5E Aspen Cedar Herbaceous Openland Jack Pine **Low-Density Trees Lowland Conifers** Lowland Deciduous Lowland Mixed Forest Lowland Shrub Lowland Spruce/Fir Mixed Upland Deciduous Northern Hardwood Oak Red Pine Tamarack Treed Bog **Upland Shrub** Upland Spruce/Fir Water 1,265 1.002 Total Forested Acres 79% 16% Relative Percent

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

Site Dominant Site No. 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)	55	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Headwaters to the Wild West Creek are throughout this stand. A very limited portion of the stand would be harvestable. The western portion of the stand was excluded from harvest last entry due to this factor.

5%

Report 4 - Site Conditions

Gwinn Mgt. Unit Kyle Gould: Examiner Compartment: 230 Year of Entry: 2027



2 Unspecified Unspecified Unspecified Unavailable 3J: Water quality/BMPs 5 Unspecified (stream, river, or lake) Comments: 6/17/2015: Camp 11 Creek runs through this stand. Buffering it would eliminate a good portion of the stand. 3 **Available** 5C: Delay treatment for 38 Unspecified Unspecified Unspecified Unspecified age/size class diversity or exceptional site quality Comments: 6/17/2015: Larger diameter and heights are along the northern fringe, smaller diameter and heights in the middle and south part of the stand. Hold till next entry. 4 3J: Water quality/BMPs Unspecified Unspecified Unspecified Unspecified Unavailable 24 (stream, river, or lake) Comments: 6/17/2015: Hold stand till next entry. Large amount of lowland being harvested this current YOE. 5 Unspecified Unspecified Unspecified 5A: Not able to obtain 8 Unspecified Unavailable desirable regeneration Comments: Unspecified Unspecified Unspecified Unspecified **5E: Long-Term Retention** 0 6 Unavailable **Comments:** Unspecified Unspecified Unspecified Unspecified 8 Unavailable 5E: Long-Term Retention 1 Comments:

Report 4 – Site Conditions

Gwinn Mgt. Unit Kyle Gould: Examiner



Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Available	5F: Evaluated for Forest Health Considerations	26	Unspecified	Unspecified	Unspecified	Unspecified
	d that was recently inventoried.					
Unavailable	3J: Water quality/BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	5A: Not able to obtain desirable regeneration	48	Unspecified	Unspecified	Unspecified	Unspecified
This is a wet birch						o birch and we would
Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
	Comments: Available Comments: 2017-Lowland stan Unavailable Comments: Unavailable Comments: Unavailable Comments: Unavailable Comments:	Soils, does not include access issues) Comments: Available 5F: Evaluated for Forest Health Considerations Comments: 2017-Lowland stand that was recently inventoried. Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments: Unavailable 5E: Long-Term Retention Comments: Unavailable 5E: Long-Term Retention Comments: Unavailable 5A: Not able to obtain desirable regeneration Comments: This is a wet birch site with heavy tag alder in the only get scattered red maple stump sprouts and source of the control	soils, does not include access issues) Comments: Available 5F: Evaluated for Forest Health Considerations Comments: 2017-Lowland stand that was recently inventoried. Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments: Unavailable 5E: Long-Term Retention 1 Comments: Unavailable 5E: Long-Term Retention 2 Comments: Unavailable 5A: Not able to obtain desirable regeneration Comments: This is a wet birch site with heavy tag alder in the understoonly get scattered red maple stump sprouts and some confusional desirable for the understoonly get scattered red maple stump sprouts and some confusional desirable for the understoonly get scattered red maple stump sprouts and some confusional desirable for the understoonly get scattered red maple stump sprouts and some confusional desirable for the understoonly get scattered red maple stump sprouts and some confusional desirable for the understoonly get scattered red maple stump sprouts and some confusional desirable for the understoonly get scattered red maple stump sprouts and some confusional desirable for the understoonly get scattered red maple stump sprouts and some confusional desirable for the understoonly get scattered red maple stump sprouts and some confusional desirable for the understoonly get scattered red maple stump sprouts and some confusional desirable for the understoonly get scattered red maple stump sprouts and some confusional desirable for the understoonly get scattered red maple stump sprouts and some confusional desirable for the understoonly get scattered red maple stump sprouts and some confusional desirable for the understoonly get scattered red maple stump sprouts and some confusional desirable for the understoonly get scattered red maple stump sprouts and some confusional desirable for the understoonly get scattered red maple stump sprouts and some confusional desirable for the understoonly get scattered red maple stump sprouts and scattered red maple stump sprouts and scattered red maple stump sprouts and scattered	Soils, does not include access issues) Comments: Available 5F: Evaluated for Forest 26 Unspecified Health Considerations Comments: 2017-Lowland stand that was recently inventoried. Unavailable 3J: Water quality/BMPs 7 Unspecified (stream, river, or lake) Comments: Unavailable 5E: Long-Term Retention 1 Unspecified Comments: Unavailable 5E: Long-Term Retention 2 Unspecified Comments: Unavailable 5A: Not able to obtain 48 Unspecified Comments: This is a wet birch site with heavy tag alder in the understory. If we did cut it, there is only get scattered red maple stump sprouts and some conifer where they are preserung unavailable 5E: Long-Term Retention 0 Unspecified	Soils, does not include access issues) Comments: Available 5F: Evaluated for Forest Health Considerations 26 Unspecified Unspecified Unspecified Unspecified Unavailable 3J: Water quality/BMPs 7 Unspecified Unspecified Unspecified Unspecified Unavailable 5E: Long-Term Retention 1 Unspecified	Soils, does not include access issues) Comments: Available 5F: Evaluated for Forest Health Considerations Comments: 2017-Lowland stand that was recently inventoried. Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments: Unavailable 5E: Long-Term Retention 1 Unspecified Unspecified Unspecified Comments: Unavailable 5E: Long-Term Retention 2 Unspecified Unspecified Unspecified Comments: Unavailable 5E: Long-Term Retention 2 Unspecified Unspecified Unspecified Comments: Unavailable 5A: Not able to obtain desirable regeneration Comments: Unavailable 5A: Not able to obtain desirable regeneration Comments: Unavailable 5E: Long-Term Retention 48 Unspecified Unspecified Unspecified Unspecified Unspecified Comments: Unavailable 5E: Long-Term Retention 48 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified

Report 4 – Site Conditions

Gwinn Mgt. Unit Kyle Gould: Examiner



Unavailable	ble 3J: Water quality/BMPs (stream, river, or lake)		Unspecified	Unspecified	Unspecified	Unspecified
omments:						
Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
omments:						
Unavailable	3J: Water quality/BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
omments:						
	Omments: Unavailable omments: Unavailable	(stream, river, or lake) omments: Unavailable 5E: Long-Term Retention omments: Unavailable 3J: Water quality/BMPs (stream, river, or lake)	(stream, river, or lake) omments: Unavailable 5E: Long-Term Retention 2 omments: Unavailable 3J: Water quality/BMPs (stream, river, or lake)	(stream, river, or lake) Omments: Unavailable 5E: Long-Term Retention 2 Unspecified Omments: Unavailable 3J: Water quality/BMPs 11 Unspecified (stream, river, or lake)	(stream, river, or lake) Omments: Unavailable 5E: Long-Term Retention 2 Unspecified Unspecified Omments: Unavailable 3J: Water quality/BMPs 11 Unspecified Unspecified (stream, river, or lake)	(stream, river, or lake) Unavailable 5E: Long-Term Retention 2 Unspecified Unspecified Unspecified Unavailable 3J: Water quality/BMPs (stream, river, or lake) Unspecified Unspecified Unspecified Unspecified Unspecified

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				

DEPARTMEN	DNR
\	MICHIGAN

Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
1	6224 - ⁻	Treed Bog		Nor	ne	17.7			No		2025 - agree with previous comments. Tagel alder is fairly thick and very little merchantable timber. An old freeze road comes to the stand from the northwest. 9/20/2005: OPIC - FMD: A treed bog with open lowland brush interspersed with very slow growing tamarack, black spruce, & a trace of cedar. Tree cover is of seedling/sapling size class with some small poles.
2	6124 - Lowl	and Spruce	-Fir Po	oletimbei	Medium	26.5	71	1-50	N/A	1	2025 - tree diameters are still a bit on the small side. A freeze road from
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	the NW was used to access the area previously. The stand is a little patchy and most the trees look healthy. The southeast end of the stand
	Black Spruce	40	Seedling	7	71	Bals	sam Fir	Medium	5 - 10 feet	5 - 10 feet	turns to more of an open bog. 9/20/2005: OPIC - FMD: The vast
No	rthern White Cedar	5		8		Tag	g Alder	Medium	5 - 10 feet	5 - 10 feet	majority of this stand is swampy with leatherleaf ground cover, primarily
	Balsam Fir	15	Seedling	6							¹ spruce/tamarack & only a trace of cedar. The slightly higher elevation small inclusions support a few jack pine (like on the southwest boundary)
	Tamarack	30	Seedling	7							of the forty) and also balsam fir occupy the dryer sites. Most larger fir
	Jack Pine	10		9							was killed off by spruce budworm and seedling/sapling fir as well as
											spruce is very abundant in the stand. A few birch are present also that are mostly dead now.
3	4130	- Aspen	F	oletimb	er Well	42.4	52	51-80	N/A	1	2024 - aspen is ready for harvest1/9/15: Aspen in good shape. Small
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	patches of jack pine scattered throughout the stand. Scattered spruce fir in the understory, possibly a trace in the overstory. Beaked hazel in the
	Quaking Aspen	98	Seedling	9	52	Bals	sam Fir	Low	10 - 20 feet	10 - 20 feet	understory, more so on the east end of the stand. Diameter is variable
	Jack Pine	2	Seedling	9		White	e Spruce	Low	10 - 20 feet	10 - 20 feet	across the stand. some areas the trees are approaching 10" whereas
						Hazelnı	ut (Beaked)	Medium	5 - 10 feet	5 - 10 feet	the majority are in the 7-8" range. Some open areas exist where there are depressions. These are not wetland depressions. Stand is
											harvestable. OPIC - FMD: Was commercially cut in summer of 1973 by
											Holli Forest Products, Inc., permit #16/73. All merchantable aspen, birch, and mixed hardwood was to be cut. Apparently jack pine was not
											to be cut and what about oak? Also, birch located within 200 ft of the
											Flat Rock or Camp Hope Rd was not to be cut. I (Warren Heikkila)
											found an FTP #W3-438 which was for K-G cutter treatment of this stand (and stand 4 also) to knock down residual trees following the
											commercial cut of stand 3 which they say occurred in Spring of 1973.
											Purpose was to get maximum aspen stocking & survival in the new stand. It was written by Jack C.Mauer when he was a Game Area
											Manager in Gwinn. Oak was to be left as well as jack pine. Actual
											treatment occurred between July to Oct of 1973.



Stand	d Level 4 Co	over Type		Size Density	Acres	Stand Age	BA Range	Managed S	ite	General Comments			
4	4123 -	Red Oak	Po	letimber Medium	21.1	79	51-80	N/A		2025 - stand of small log sixed oak with aspen and birch pockets mixed			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	in. 1/9/15: Predominantly an oak log stand. Basal area ranges from 100 sq. ft/ac. Pockets of quaking and big tooth aspen exist. Unders			
	Bigtooth Aspen	10	Seedling	6	Re	ed Maple	Medium	10 - 20 feet	10 - 20 feet	(actually mid-canopy) is all red maple, both stump sprout and seed			
	Red Oak	71		12 79	Hazeln	nut (Beaked)	Low	5 - 10 feet	5 - 10 feet	origin. These exist where there are essentially gaps so they aren't truly			
	Jack Pine	4	Seedling	8						¹ part of the canopy yet. East end and south are more open. Scattered jack pine groups and along the edge of the stand. Stand is very			
	Paper Birch	15		8 53						beneficial to wildlife at this point in development. OPIC - FMD: Stand is semi-open in places with hazel brush common, and red maple saplings			
										& small poles. Northern fringes have more birch. Bordered on the s by a heavily stocked A6 stand or clone of young aspen (yr of origin 1971). Was this young aspen a result of a KG Wildlife operation? Overall, this stand probably is very beneficial to wildlife in it's present condition. I found an FTP (#W3-438) written for K-G cutter treatmethis stand (and also stand 3), leaving all oak & jack pine, and a clum birch on the north property boundary in the NWNE. Purpose here wimprove deer habitat and it did stimulate some aspen sprouting on the south edge of stand 4, where currently is found a well stocked young stand. Actual treatment occurred between July to Oct. 1973.			
5	4130	- Aspen		Sapling Well	43.0	17	Immature	N/A		2025 - fully stocked aspen stand with some red maple sprouts as well. Some large oak present that were left during the harvest. The aspen is a			
	Canopy Species	% Cover	Size Class	DBH Age						little things when the oak are thicker12/8/2014: Most of the birch seed			
	Red Oak	5		12 86						trees that were left have died. Regen doing well. Birch had sprouted but			
	Red Maple	25	Log	3 17						were browsed too much to survive. 6/20/2008: OPIC - FMD: Harvested during spring breakup 2008 by Holli Forest Products: TS#110-07-01,			
	Quaking Aspen	70	Log	3 17						Three Tick Sale. Left all oak as well as marked birch seed trees.			
6	4130	- Aspen	Po	letimber Medium	39.2	38	1-50	N/A		2024 - pole sized aspen. The stocking is patchy. The stand has rocky			
	Canopy Species	% Cover	Size Class	DBH Age						soils. There are some large red oak left from the last harvest.OPIC - FMD: Was commercially cut in Nov 1987 by Oscar Antilla from			
	Red Maple	15	Pole	4						Republic, permit #12-87, "Camp Eleven Creek Block". Red & white			
	Bigtooth Aspen	35	Seedling	7						pine was left as well as some birch & oak marked with green paint.			
	Quaking Aspen	50	Seedling	7 38						FTP #W31-185 was for K-G treecutter of residual hardwood to maximize aspen regeneration, after commercial logging of the stand. No			
										oak was to be cut nor any other marked trees. Accomplished in 1989.			
7	6122 - BI	ack Spruce	Po	letimber Medium	35.8	86	1-50	N/A	١	2024 - stand could be harvested now. There are pockets of small diameter trees as well. OPIC - FMD: Quite variable in stocking and			
	Canopy Species		Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	size class. Significant younger sapling size conifers. Rather unevenaged			
	Black Spruce	80	Sapling	7 86	Та	ag Alder	Medium	5 - 10 feet	5 - 10 feet	in places. When any cut is made, an adequate buffer (minimum of 100			
No	orthern White Cedar	10	Seedling	7						ft) must be left along headwaters of Camp 11 Creek.			
	Tamarack	10	Seedling	8									



Stand	d Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed Sit	te	General Comments
8	4130	- Aspen		Poletimb		31.5	55	51-80	N/A		2024 - mature aspen sand with some jack pine mixed in. Ready to harvest. Aspen is in decent health but will not hold 10 more years.
	Canopy Species	% Cover	Size Class	DBH	Age						naivest. Aspet is in decent health but will not hold to more years.
	Balsam Fir	5	Sapling	6							12/22/14: Stand is in good shape. Small pockets of jack pine within the
	Quaking Aspen	80		9	55						stand as well as some small open areas. Stand is bordered by larger opening. OPIC - FMD: There are old plow furrows apparently from a
	Jack Pine	5	Seedling								past burn here, whether it was a wildfire or a prescribed burn is not
	Bigtooth Aspen	10		9							known. This fire may have stimulated aspen sprouting and been the start of the heavily stocked eastern portion of this stand. Very good site index, tall trees. Parts of stand are already A6 stocking, & some small patches of jack pine inclusions also exist.
9	4222 - Natu	ıral Jack Pi	ne	Unspe	cifed	14.4	1				12/22/14: Stand is in good shape. Ready to be harvested as there is over mature jack pine present. OI notes indicate past partial harvest in stand. Aspen, spruce, and some maple mixed in stand. OPIC - FMD: Stand is somewhat unevenaged In that it has some residual older jack pine (60 yrs +), but the average age is mid-30's. From annual rings, a release event took place in the early 1970's. (a cutting?) Semi-open or parklike in places, but the heaviest stocking is on the west end and a 2 chain wide strip on the north bordering the swamp. Commercial timber sale permit #20/63 issued to Herbert Romback of Princeton covers the SENE of Sec 15. It allowed cutting of aspen & birch, plus all jack pine within 200 ft of marked jack pine seed trees. This is an unusual sale I don't recall seeing jack pine seed trees used before. I wonder if any scarification was used. It was cut in Nov 1963 thru Feb 1964. Prepared Under Sale 32-105-17 Coyote & A Covey Mix. Residual .6SF of WP. Cut By Holli FP in the winter of 2021
10	42220 - Nat	ural Jack P	ine	Sapling N	/ledium	9.6	13	Immature	N/A		2025 - 10-15 foot tall jack pine. Most areas are filled in nicely with a
	Canopy Species	% Cover	Size Class	DBH	Age						couple sparse spots. It will continue to fill in.12/10/2014: Site was trenched and seeded in the fall of 2013. 2011: OPIC - FMD: Stand cut in
	Jack Pine	100	Log	1	13						October of 2010 by Holli Forest Products, Inc TS# 32-111-07-01 (Mother Goose Mix). Limbs and tops were ground/shipped. 2016 count shows fully stocked stand. Forestry staff should walk though in 2017 to confirm.
11	42110 - Plar	nted Red P	ine	Unspe	cifed	14.7	0	Immature			Prepared Under Sale 32-105-17 Coyote & A Covey Mix. Residual 4.6SF of Oak, 3.1SF or RP. Cut By Holli FP in fall of 2018 under 32-105-17 2022 TCR date.
											Site planted with Red pine Spring 2023.
12		- Aspen		Poletimb		26.0	37	51-80	N/A		2025 - stand looks healthy. Nice pole sized aspen. 1/7/2015: Scattered semi-open patches within stand; amounts to approx. 2-3 acres. OPIC -
	Canopy Species	% Cover			Age		opy Specie		Avg. Height	Size	FMD: Was commercially cut in summer of 1988 by Jay Mattila from
	Bigtooth Aspen	22	Seedling			Hazelnu	ıt (Beaked)	Medium	5 - 10 feet	5 - 10 feet	Republic, permit #006-87-01, "Frenchy Lake Block". All oak & cherry
	Red Oak	3	Seedling		0=						was left. In 2005, some patches on east end are semi-open with some scattered fir also, but this is desirable for wildlife and diversity.
	Quaking Aspen	70	Seedling		37						,
	Balsam Fir	5	Seedling	5							

Stand	Level 4 Co	over Type		Size Density	Acre	s Stand Age	ba Kange	Managed S	ite	General Comments
13	6122 - Bla	ack Spruce		Poletimber W	ell 17.	3 97	81-110	N/A		2025 - stand good quality spruce and tamarack. Some budworm kill and dead trees resulting from the last outbreak. OPIC - FMD: Timber is
	Canopy Species	% Cover	Size Class	DBH Age	Sub-	Canopy Species	Density	Avg. Height	Size	somewhat patchy (eg. Most cedar in center of stand). Best timber is
	Black Spruce	75	Sapling	7 97		Tag Alder	Low	5 - 10 feet	5 - 10 feet	found in the transition zone or edges of the swamp. Some areas of
	Tamarack	10	Seedling	8	Е	Black Spruce	Low	5 - 10 feet	5 - 10 feet	mostly small poles and regeneration. Tiny pond in west end of stand.
	White Pine	7		9			'			Prepared Under Sale 32-105-17 Coyote & A Covey Mix. Residual .4SF of RP, 1.3SF or WP, 7.7 SF of Cedar.
No	rthern White Cedar	5	Seedling	8						orta, i.our of wit, i.i or or occur.
	Balsam Poplar	3	Seedling	8						
14	6128 - Lowland (Deci	Coniferous, iduous	Mixed	Sawtimber Po	or 48.	1 90	1-50	N/A	\	2024 - very poor stand. Soils are wet and tag alder dominated the site. Merchantable timber is scattered and thinOPIC - FMD: Note: The
	Canopy Species	% Cover	Size Class	DBH Age	Sub-	Canopy Species	Density	Avg. Height	Size	minimum site index for birch for a site capable of producing 20 cubic ft/acre/yr of wood fiber is 46. Thus this is not commercial forest land
	Black Spruce	25	Sapling	7		Tag Alder	High	5 - 10 feet	5 - 10 feet	and falls in the area classification of "Non-timber producing forest land.
	Paper Birch	40		14 90		_			1	Other commercial species (spruce,tam,balm, & red maple make up 10
	Tamarack	10		8						sq.ft/A). Natural succession here seems to be to spruce/fir/tam. (Mostly
	Balsam Fir	20	Seedling	8						fir). Birch is dying out.
										January 2011 by Holli Forest Products, Inc TS# 32-111-07-01 (Mother Goose Mix). They started cutting in October but skidding was rutting beyond acceptable levels so they piled the cut wood and came back in January to finish. Some cedar was cut as it was not listed to not cut and
										Goose Mix). They started cutting in October but skidding was rutting beyond acceptable levels so they piled the cut wood and came back in
16	4130 -	- Aspen		Sapling We	l 25	2 26	Immature	N/A	<u> </u>	Goose Mix). They started cutting in October but skidding was rutting beyond acceptable levels so they piled the cut wood and came back in January to finish. Some cedar was cut as it was not listed to not cut and mixed softwood was listed on the front page of the prospectus so they assumed it fell under that. A mutual agreement was reached and they stopped cutting it. There was very little present in the stand, only along the south fringe where it transitioned into the adjacent stand. 11 patches of 15 trees were left within the stand for a seed source. 2025 - mostly aspen with some jack pine, spruce, and fir mixed
16	4130 · Canopy Species	- Aspen % Cover	Size Class	Sapling Wel		2 26 Canopy Species		N/A Avg. Height	Size	Goose Mix). They started cutting in October but skidding was rutting beyond acceptable levels so they piled the cut wood and came back in January to finish. Some cedar was cut as it was not listed to not cut and mixed softwood was listed on the front page of the prospectus so they assumed it fell under that. A mutual agreement was reached and they stopped cutting it. There was very little present in the stand, only along the south fringe where it transitioned into the adjacent stand. 11 patches of 15 trees were left within the stand for a seed source.
16		•	Size Class Pole	DBH Age	Sub-					Goose Mix). They started cutting in October but skidding was rutting beyond acceptable levels so they piled the cut wood and came back in January to finish. Some cedar was cut as it was not listed to not cut and mixed softwood was listed on the front page of the prospectus so they assumed it fell under that. A mutual agreement was reached and they stopped cutting it. There was very little present in the stand, only along the south fringe where it transitioned into the adjacent stand. 11 patches of 15 trees were left within the stand for a seed source. 2025 - mostly aspen with some jack pine, spruce, and fir mixed in2015 - stand is mostly aspen OPIC - FMD: This stand was commercially cut in Dec.1998 by Tom St.John (Oro Logging Co.) under permit # 5-97, "Camp Hope Road Sale". Access was from the
16	Canopy Species	% Cover		DBH Age	Sub-	Canopy Species	Density	Avg. Height	Size	Goose Mix). They started cutting in October but skidding was rutting beyond acceptable levels so they piled the cut wood and came back in January to finish. Some cedar was cut as it was not listed to not cut and mixed softwood was listed on the front page of the prospectus so they assumed it fell under that. A mutual agreement was reached and they stopped cutting it. There was very little present in the stand, only along the south fringe where it transitioned into the adjacent stand. 11 patches of 15 trees were left within the stand for a seed source. 2025 - mostly aspen with some jack pine, spruce, and fir mixed in2015 - stand is mostly aspen OPIC - FMD: This stand was commercially cut in Dec.1998 by Tom St.John (Oro Logging Co.) under permit # 5-97, "Camp Hope Road Sale". Access was from the northwest across narrow strip of swamp. Future stand will likely be a mix
16	Canopy Species Quaking Aspen	% Cover 70	Pole	DBH Age	Sub-	Canopy Species	Density	Avg. Height	Size	Goose Mix). They started cutting in October but skidding was rutting beyond acceptable levels so they piled the cut wood and came back in January to finish. Some cedar was cut as it was not listed to not cut and mixed softwood was listed on the front page of the prospectus so they assumed it fell under that. A mutual agreement was reached and they stopped cutting it. There was very little present in the stand, only along the south fringe where it transitioned into the adjacent stand. 11 patches of 15 trees were left within the stand for a seed source. 2025 - mostly aspen with some jack pine, spruce, and fir mixed in2015 - stand is mostly aspen OPIC - FMD: This stand was commercially cut in Dec.1998 by Tom St.John (Oro Logging Co.) under permit # 5-97, "Camp Hope Road Sale". Access was from the northwest across narrow strip of swamp. Future stand will likely be a mix of aspen, balsam fir, spruce and jack pine, with aspen being dominant.
16	Canopy Species Quaking Aspen White Spruce	% Cover 70 5	Pole Seedling	DBH Age 4 26 5	Sub-	Canopy Species	Density	Avg. Height	Size	Goose Mix). They started cutting in October but skidding was rutting beyond acceptable levels so they piled the cut wood and came back in January to finish. Some cedar was cut as it was not listed to not cut and mixed softwood was listed on the front page of the prospectus so they assumed it fell under that. A mutual agreement was reached and they stopped cutting it. There was very little present in the stand, only along the south fringe where it transitioned into the adjacent stand. 11 patches of 15 trees were left within the stand for a seed source. 2025 - mostly aspen with some jack pine, spruce, and fir mixed in2015 - stand is mostly aspen OPIC - FMD: This stand was commercially cut in Dec.1998 by Tom St.John (Oro Logging Co.) under permit # 5-97, "Camp Hope Road Sale". Access was from the northwest across narrow strip of swamp. Future stand will likely be a mix of aspen, balsam fir, spruce and jack pine, with aspen being dominant.
16	Canopy Species Quaking Aspen White Spruce Bigtooth Aspen Balsam Fir	% Cover 70 5 20	Pole Seedling Pole Seedling	DBH Age 4 26 5 4	Sub- Haz	Canopy Species relnut (Beaked)	Density	Avg. Height	Size 5 - 10 feet	Goose Mix). They started cutting in October but skidding was rutting beyond acceptable levels so they piled the cut wood and came back in January to finish. Some cedar was cut as it was not listed to not cut and mixed softwood was listed on the front page of the prospectus so they assumed it fell under that. A mutual agreement was reached and they stopped cutting it. There was very little present in the stand, only along the south fringe where it transitioned into the adjacent stand. 11 patches of 15 trees were left within the stand for a seed source. 2025 - mostly aspen with some jack pine, spruce, and fir mixed in2015 - stand is mostly aspen OPIC - FMD: This stand was commercially cut in Dec.1998 by Tom St.John (Oro Logging Co.) under permit # 5-97, "Camp Hope Road Sale". Access was from the northwest across narrow strip of swamp. Future stand will likely be a mix of aspen, balsam fir, spruce and jack pine, with aspen being dominant. Oak, cherry, red and white pine were left uncut. Soil is sandy here. This stand is essentially an island of high ground surrounded by swamp.
	Canopy Species Quaking Aspen White Spruce Bigtooth Aspen Balsam Fir	% Cover 70 5 20 5 ack Spruce	Pole Seedling Pole Seedling	DBH Age 4 26 5 4 5 5	Sub- Haz	Canopy Species relnut (Beaked)	Low Jnspecified	Avg. Height 5 - 10 feet	Size 5 - 10 feet	Goose Mix). They started cutting in October but skidding was rutting beyond acceptable levels so they piled the cut wood and came back in January to finish. Some cedar was cut as it was not listed to not cut and mixed softwood was listed on the front page of the prospectus so they assumed it fell under that. A mutual agreement was reached and they stopped cutting it. There was very little present in the stand, only along the south fringe where it transitioned into the adjacent stand. 11 patches of 15 trees were left within the stand for a seed source. 2025 - mostly aspen with some jack pine, spruce, and fir mixed in2015 - stand is mostly aspen OPIC - FMD: This stand was commercially cut in Dec.1998 by Tom St.John (Oro Logging Co.) under permit # 5-97, "Camp Hope Road Sale". Access was from the northwest across narrow strip of swamp. Future stand will likely be a mix of aspen, balsam fir, spruce and jack pine, with aspen being dominant. Oak, cherry, red and white pine were left uncut. Soil is sandy here. This stand is essentially an island of high ground surrounded by swamp. 2025 - agree with previous comments. Diameters are smaller than expected for the stand age. The adjacent stand to the west was
	Canopy Species Quaking Aspen White Spruce Bigtooth Aspen Balsam Fir	% Cover 70 5 20 5 ack Spruce	Pole Seedling Pole Seedling	DBH Age 4 26 5 4 5 Poletimber W	Sub- Haz	Canopy Species relnut (Beaked)	Low Jnspecified	Avg. Height 5 - 10 feet N/A	Size 5 - 10 feet	Goose Mix). They started cutting in October but skidding was rutting beyond acceptable levels so they piled the cut wood and came back in January to finish. Some cedar was cut as it was not listed to not cut and mixed softwood was listed on the front page of the prospectus so they assumed it fell under that. A mutual agreement was reached and they stopped cutting it. There was very little present in the stand, only along the south fringe where it transitioned into the adjacent stand. 11 patches of 15 trees were left within the stand for a seed source. 2025 - mostly aspen with some jack pine, spruce, and fir mixed in2015 - stand is mostly aspen OPIC - FMD: This stand was commercially cut in Dec.1998 by Tom St.John (Oro Logging Co.) under permit # 5-97, "Camp Hope Road Sale". Access was from the northwest across narrow strip of swamp. Future stand will likely be a mix of aspen, balsam fir, spruce and jack pine, with aspen being dominant. Oak, cherry, red and white pine were left uncut. Soil is sandy here. This stand is essentially an island of high ground surrounded by swamp. 2025 - agree with previous comments. Diameters are smaller than expected for the stand age. The adjacent stand to the west was harvested in 2021. 1/9/15: Smaller diameter spruce and tamarack. Tamarack is occurring in the more open areas of the stand. Appears to
	Canopy Species Quaking Aspen White Spruce Bigtooth Aspen Balsam Fir 6122 - Bla Canopy Species	% Cover 70 5 20 5 ack Spruce % Cover	Pole Seedling Pole Seedling	DBH Age 4 26 5 4 5 Poletimber W	Sub- Haz	Canopy Species relnut (Beaked) 5 91 Canopy Species	Low Unspecified Density	Avg. Height 5 - 10 feet N/A Avg. Height	Size 5 - 10 feet	Goose Mix). They started cutting in October but skidding was rutting beyond acceptable levels so they piled the cut wood and came back in January to finish. Some cedar was cut as it was not listed to not cut and mixed softwood was listed on the front page of the prospectus so they assumed it fell under that. A mutual agreement was reached and they stopped cutting it. There was very little present in the stand, only along the south fringe where it transitioned into the adjacent stand. 11 patches of 15 trees were left within the stand for a seed source. 2025 - mostly aspen with some jack pine, spruce, and fir mixed in2015 - stand is mostly aspen OPIC - FMD: This stand was commercially cut in Dec.1998 by Tom St.John (Oro Logging Co.) under permit # 5-97, "Camp Hope Road Sale". Access was from the northwest across narrow strip of swamp. Future stand will likely be a mix of aspen, balsam fir, spruce and jack pine, with aspen being dominant. Oak, cherry, red and white pine were left uncut. Soil is sandy here. This stand is essentially an island of high ground surrounded by swamp. 2025 - agree with previous comments. Diameters are smaller than expected for the stand age. The adjacent stand to the west was harvested in 2021. 1/9/15: Smaller diameter spruce and tamarack. Tamarack is occurring in the more open areas of the stand. Appears to be two aged. Smaller diameter trees as one heads south in to the stand.
	Canopy Species Quaking Aspen White Spruce Bigtooth Aspen Balsam Fir 6122 - Bla Canopy Species Balsam Fir	% Cover 70 5 20 5 ack Spruce % Cover 5	Pole Seedling Pole Seedling Size Class Sapling	DBH Age 4 26 5 4 5 Poletimber W DBH Age	ell 40.	Canopy Species relnut (Beaked) 5 91 Canopy Species Tamarack	Density Low Unspecified Density Medium	Avg. Height 5 - 10 feet N/A Avg. Height 10 - 20 feet	Size 5 - 10 feet Size 10 - 20 feet	Goose Mix). They started cutting in October but skidding was rutting beyond acceptable levels so they piled the cut wood and came back in January to finish. Some cedar was cut as it was not listed to not cut and mixed softwood was listed on the front page of the prospectus so they assumed it fell under that. A mutual agreement was reached and they stopped cutting it. There was very little present in the stand, only along the south fringe where it transitioned into the adjacent stand. 11 patches of 15 trees were left within the stand for a seed source. 2025 - mostly aspen with some jack pine, spruce, and fir mixed in2015 - stand is mostly aspen OPIC - FMD: This stand was commercially cut in Dec.1998 by Tom St.John (Oro Logging Co.) under permit # 5-97, "Camp Hope Road Sale". Access was from the northwest across narrow strip of swamp. Future stand will likely be a mix of aspen, balsam fir, spruce and jack pine, with aspen being dominant. Oak, cherry, red and white pine were left uncut. Soil is sandy here. This stand is essentially an island of high ground surrounded by swamp. 2025 - agree with previous comments. Diameters are smaller than expected for the stand age. The adjacent stand to the west was harvested in 2021. 1/9/15: Smaller diameter spruce and tamarack. Tamarack is occurring in the more open areas of the stand. Appears to be two aged. Smaller diameter trees as one heads south in to the stand. Northern fringe is fairly merchantable. Semi-open areas heavy to tag
	Canopy Species Quaking Aspen White Spruce Bigtooth Aspen Balsam Fir 6122 - Bla Canopy Species Balsam Fir Paper Birch	% Cover 70 5 20 5 ack Spruce % Cover 5 5 5	Pole Seedling Pole Seedling Size Class Sapling Sapling	DBH Age	ell 40.	Canopy Species relnut (Beaked) 5 91 Canopy Species Tamarack Tag Alder	Low Unspecified Density Medium Medium	Avg. Height 5 - 10 feet N/A Avg. Height 10 - 20 feet 5 - 10 feet	Size 5 - 10 feet Size 10 - 20 feet 5 - 10 feet	Goose Mix). They started cutting in October but skidding was rutting beyond acceptable levels so they piled the cut wood and came back in January to finish. Some cedar was cut as it was not listed to not cut and mixed softwood was listed on the front page of the prospectus so they assumed it fell under that. A mutual agreement was reached and they stopped cutting it. There was very little present in the stand, only along the south fringe where it transitioned into the adjacent stand. 11 patches of 15 trees were left within the stand for a seed source. 2025 - mostly aspen with some jack pine, spruce, and fir mixed in2015 - stand is mostly aspen OPIC - FMD: This stand was commercially cut in Dec.1998 by Tom St.John (Oro Logging Co.) under permit # 5-97, "Camp Hope Road Sale". Access was from the northwest across narrow strip of swamp. Future stand will likely be a mix of aspen, balsam fir, spruce and jack pine, with aspen being dominant. Oak, cherry, red and white pine were left uncut. Soil is sandy here. This stand is essentially an island of high ground surrounded by swamp. 2025 - agree with previous comments. Diameters are smaller than expected for the stand age. The adjacent stand to the west was harvested in 2021. 1/9/15: Smaller diameter spruce and tamarack. Tamarack is occurring in the more open areas of the stand. Appears to be two aged. Smaller diameter trees as one heads south in to the stand.
	Canopy Species Quaking Aspen White Spruce Bigtooth Aspen Balsam Fir 6122 - Bla Canopy Species Balsam Fir Paper Birch Black Spruce	% Cover 70 5 20 5 ack Spruce 5 5 65	Pole Seedling Pole Seedling Size Class Sapling Sapling Sapling	DBH Age	ell 40.	Canopy Species relnut (Beaked) 5 91 Canopy Species Tamarack Tag Alder	Low Unspecified Density Medium Medium	Avg. Height 5 - 10 feet N/A Avg. Height 10 - 20 feet 5 - 10 feet	Size 5 - 10 feet Size 10 - 20 feet 5 - 10 feet	Goose Mix). They started cutting in October but skidding was rutting beyond acceptable levels so they piled the cut wood and came back in January to finish. Some cedar was cut as it was not listed to not cut and mixed softwood was listed on the front page of the prospectus so they assumed it fell under that. A mutual agreement was reached and they stopped cutting it. There was very little present in the stand, only along the south fringe where it transitioned into the adjacent stand. 11 patches of 15 trees were left within the stand for a seed source. 2025 - mostly aspen with some jack pine, spruce, and fir mixed in2015 - stand is mostly aspen OPIC - FMD: This stand was commercially cut in Dec.1998 by Tom St.John (Oro Logging Co.) under permit # 5-97, "Camp Hope Road Sale". Access was from the northwest across narrow strip of swamp. Future stand will likely be a mix of aspen, balsam fir, spruce and jack pine, with aspen being dominant. Oak, cherry, red and white pine were left uncut. Soil is sandy here. This stand is essentially an island of high ground surrounded by swamp. 2025 - agree with previous comments. Diameters are smaller than expected for the stand age. The adjacent stand to the west was harvested in 2021. 1/9/15: Smaller diameter spruce and tamarack. Tamarack is occurring in the more open areas of the stand. Appears to be two aged. Smaller diameter trees as one heads south in to the stand. Northern fringe is fairly merchantable. Semi-open areas heavy to tag alder exist throughout the stand. OPIC - FMD: Potential biodiversity mgt

Gwinn Mgt. Unit

Report 7 - Stands



Compartment: 230

Year of Entry: 2027

Stand	Level 4 C	over Type		Size Density	Acres	Stand Age B	A Range	Managed Sit	te	General Comments
18	6229 - Mixed	Lowland SI	hrub	None	32.7			No		2025 - Area is very open, not many trees. There is a large, old beaver
					Sub-Ca	nopy Species	Density	Avg. Height	Size	dam in the middle raising the water a 2-3 feet and making a large flooding. 12/23/14: Scattered trees on north end of the stand. Wild
					Blad	ck Spruce	Low	>20 feet	>20 feet	West Creek starts here. OPIC - FMD: Potential biodiversity mgt area.
					Northern	n White Cedar	Low	>20 feet	>20 feet	See cmpt header for additional comments. Wild West Creek flows thru this stand.
19	4132 - Asp	en, Jack Pir	ne	Poletimber Well	2.4	55		N/A		
	Canopy Species	% Cover	Size Class	DBH Age						
	Jack Pine	30		12						
	Quaking Aspen	60		9 55						
	Red Pine	10		13						
20	330 - Low-	Density Tree	es	None	18.0			No		2025 - low density conifer trees. The stand is all upland. There is an old road that comes from the north off private through the stand.
21	4130	- Aspen		Sapling Well	50.0	7		N/A		2024 - The aspen regenerated well in this stand. It is fully stocked and
	Canopy Species	% Cover	Size Class	DBH Age						the quality looks good. This stand was prepped as part of Brad's Bear aspen SBW (32-119-16-01). A SBW sale this area was set up a year
	Quaking Aspen	100	Log	1 7						early to salvage fir volume. The stand was harvested in the winter of 2016-17 by J. Carey Logging. 12/19/2014: There are a few black spruce
										inclusions within this stand that had previously been typed out as separate stands. OPIC - FMD: Was commercially cut by Holli Forest Products, Inc. between 1973 - 75, permit #41/70 A, "Dewey Lake Block". This was a 180 acre sale which extended south into Cmpt 237. Specs were to cut all merchantable aspen, birch, & maple all black spruce & fir with 2 or more sticks all white spruce 12 inch or larger in stump diameter and all jack pine in the spruce/fir & aspen/birch types. No cutting within 100 feet of Wild West Creek. This sale was a scale sale & it was cut manually by chain saw (piece cutters).
22	4134 - Asp	en, Spruce/	Fir	Poletimber Well	15.3	34	51-80	N/A		2024 - fully stocked stand of small poles with areas of heavy fir.
	Canopy Species	% Cover	Size Class	DBH Age						12/19/2014: A few open patches within the stand. OPIC - FMD: Was
	Quaking Aspen	75	Seedling	6 34						commercially cut in 1991 by Minerick Logging Inc., permit #14-87,
	White Spruce	5	Sapling	6						"Swamp Stripcut Block".
	Balsam Fir	20	Seedling	6						
23	6120 - Lo	wland Ceda		oletimber Medium	16.1	110	1-50	N/A		2025 - Stand is large cedar left in the uncut strips. With the strip is a mix of lowland conifers but no cedar regeneration.OPIC - FMD: This stand
	Canopy Species		Size Class	DBH Age						began as strip cuts made in 1960, but also was included in permit #014-
No	rthern White Cedar	75	-	11 110						87-01, "Swamp Stripcut Block", cut by Minerick Logging, Inc, in the winter of 1993-94. All cedar was left as well as 1 & 2 stick spruce/fir.
	Tamarack	20	Pole	4						Currently in 2005, this stand consists of patches of cedar, ranging from
	Black Spruce	5	Pole	4						heavily stocked to sparse, with spruce, fir; tamarack regeneration, but cedar regen is lacking. Somewhat twoaged in character. Ground cover ranges from grass to leatherleaf & sphagnum moss. Some alder & balm present also.

Gwinn Mgt. Unit

Report 7 – Stands



Compartment: 230

Year of Entry: 2027

Stand	and Level 4 Cover Type			Size Density	Acres	Stand Age	BA Range	Managed S	Site	General Comments							
24	6121 -	Tamarack		Sapling Well	37.4	31	Immature	N/A	4	2025 - nearing pole sized tamarack mixed stand. The north end of the stand buffers part of camp 11 creek. Moderate tag alder in the							
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	s Density	Avg. Height	Size	_ stand buriers part of camp 11 creek. Moderate tag aider in the ⊥ understory. OPIC - FMD: Was commercially cut in winter of 1993-94							
	Balsam Fir	5	Log	4	Та	ng Alder	Medium	5 - 10 feet	5 - 10 feet	by Minerick Logging, Inc., permit #014-87-01, "Swamp Stripcut Block".							
	Black Spruce	15	Log	4	Bal	Balsam Fir		< 5 feet	< 5 feet	All cedar was left as well as 1 & 2 stick spruce/fir. In April of 2005, still a scattering of residual smallish spruce poletimber, but the dominant							
No	rthern White Cedar	marack 60 Pole	Seedling	8						regeneration present is tamarack (about 10 to 15 ft tall). Spruce & fir							
	Tamarack		Pole	4 31						are an understory beneath, fewer in number and about 1 to 3 ft tall.							
	alsam Poplar 10 Pole 612 - Lowland Coniferous Forest		Pole	4						Alder present also as tall as the tamarack, and some balm present in patches. We will feature the tamarck as current cover type "T2". Mostly grass ground cover with some leatherleaf & dogwood brush.							
25	612 - Lowland	Coniferous	Forest	Unspecifed	25.4	0				2025 - stand was cut 3 years ago. Continue to monitor regeneration.							
	612 - Lowland Coniferous Forest									1/9/2015: More spruce than in stand to east. Heavier concentration of cedar in pockets as well. OPIC - FMD: Timber is somewhat patchy (eg. Most cedar in center of stand). Best timber is found in the transition zone or edges of the swamp. Some areas of mostly small poles and regeneration. Tiny pond in west end of stand. Prepared Under Sale 32-105-17 Coyote & A Covey Mix. Residual .4SF of RP, 1.3SF or WP, 7.7 SF of Cedar.							
26	6229 - Mixed	Lowland SI	nrub	None	15.2			No)	2025 - stand is open tag alder and marsh grass. A series of small beaver dams is flooding small areas.OPIC - FMD: This is a potential							
					Sub-Car	Canopy Species	s Density	Avg. Height	Size	biodiversity mgt area which serves to buffer the Camp Eleven Creek							
					Ta	marack	Low	>20 feet	>20 feet	and tributaries. See cmpt header for additional comments. The fringes							
						ng Alder	High	5 - 10 feet	5 - 10 feet	of this stand have the best timber, mostly spruce, grading into more tamarack/alder as you get closer to the water course. Perhaps the							
					Northern	White Cedar	Low	>20 feet	>20 feet	westernmost finger of spruce bordering private could be treated							
										seperately in the future. We intended to cut up to the property line when stand 24 was cut, but newer survey work was done in 2003.							
27	4123 -	Red Oak				Po Size Class				Po	oletimber Mediur	m 18.3	86	1-50	N/A	4	2025 - most oak are log size or close to log size. Oak is moderate quality and looks healthy. There is a low to moderate amount of red
	Canopy Species	% Cover								DBH Age	Sub-Cai	nopy Species	s Density	Avg. Height	Size	naple stump sprouts as well as some aspen scattered regen from the	
	Red Oak	100		12 86	Wh	nite Pine	Low	5 - 10 feet	5 - 10 feet	last harvest. The white pine that were planted in 1009 are about 10 feet							
						d Maple	Low	5 - 10 feet	5 - 10 feet	tall now.12/8/2014: Stand was broken out of the larger past treatment area due to the amount of residual oak. WLD underplanted this area							
					Quak	ing Aspen	Medium	5 - 10 feet	5 - 10 feet	with white pine at a rate of 300 tpa in June of 2009. 6/28/2008: OPIC -							
										FMD: Harvested during spring breakup 2008 by Holli Forest Products: TS#110-07-01, Three Tick Sale. Left all oak as well as marked birch seed trees.							

Report 7 – Stands



Compartment: 230

		Gwiiii wg	ic. Offic							Year of Entry: 2027
Stand	Level 4 C	over Type		Size Density	Acres	Stand Age B	A Range	Managed Si	te	General Comments
28	4199 - Other Mixe	ed Upland D	eciduous	Unspecifed	27.2	1	1-50			2024 - trees are slowly starting to fill in the opening. Mostly jack pine
					Sub-Ca	nopy Species	Density	Avg. Height	Size	clumps and aspen clones. Overall the site is very open. There are a couple small ponds in the NE end of the stand. 12/8/2014: Grass
					Bigte	ooth Aspen	Low	Variable	Variable	opening complex that was historically managed for sharp-tailed grouse.
					J	ack Pine	Low	10 - 20 feet	10 - 20 feet	Scattered clumps of jack pine and aspen. Scattered areas of shrubs.
										Historical notes state that Autumn Olive, hawthorn, and Siberian crab were planted here along the south east edge. 9/20/2005: OPIC - FMD: Some sparse to medium stocking of natural jack pine regeneration already exists in patches here. Per our mini-review held on 9/14/05, Wildlife would like this stand burned by prescribed fire, or mechanical treatment is also an acceptable alternative to burning. Robert Ziel visited this stand after the mini-review and concluded a prescribed burn here is feasible.
29	4116 - Mixed N.	Hardwood	- Aspen	Sapling Mediu	m 12.2	36	1-50	N/A		2024 - poor quality stand. Mostly red maple with some aspen.
	Canopy Species	% Cover	Size Class	DBH Age						12/15/2014: Very patchy stand. Stand is primarily red maple clumps with
	Quaking Aspen	25	Sapling	5						scattered aspen patches. OPIC - FMD: Was commercially cut in 1988
	Red Maple	70	Pole	4 36						by Oscar Antilla from Republic, permit #12-87, "Camp Eleven Creek
	Bigtooth Aspen	5	Sapling	5						Block". This was followed by a K-G treecutter treatment under FTP #W31-185 to fell the residual hdwd, esp. maple. Aspen regen. was
										scarce in this stand.
30	6120 - Lo	wland Ceda	ar	Poletimber We	ell 8.2	97	81-110	N/A		2024 - This stand was one stand with the spruce that was harvested to
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	the north and the prescribed spruce to the south. This stand is heavy to cedar and dense enough that it would be difficult to harvest without
	Tamarack	10	Seedling	8	Т	ag Alder	Low	5 - 10 feet	5 - 10 feet	cutting some cedar. There is a small pond in the west end of the stand.
	White Pine	7		9	Bla	ck Spruce	Low	5 - 10 feet	5 - 10 feet	
	Black Spruce	15	Sapling	7 97						
Nor	thern White Cedar	65	Seedling	8 97						
	Balsam Poplar	3	Seedling	8						
32	4130	- Aspen		Sapling Well	7.3	8		N/A		2025 - stand has regenerated well to aspen. Looks healthy and fully
	Canopy Species	% Cover	Size Class							stocked. There are a few large residual trees in the middle of the stand. This stand was prepped as part of Brad's Bear aspen SBW (32-
(Quaking Aspen	100	Log	1 8						119-16-01). A SBW sale this area was set up a year early to salvage fir
										volume. The stand was harvested in the winter of 2016-17 by J. Carey logging. 12/19/2014: There are a few black spruce inclusions within this stand that had previously been typed out as separate stands. OPIC - FMD: Was commercially cut by Holli Forest Products, Inc. between 1973 - 75, permit #41/70 A, "Dewey Lake Block". This was a 180 acre sale which extended south into Cmpt 237. Specs were to cut all merchantable aspen, birch, & maple all black spruce & fir with 2 or more sticks all white spruce 12 inch or larger in stump diameter and all jack pine in the spruce/fir & aspen/birch types. No cutting within 100 feet of Wild West Creek. This sale was a scale sale & it was cut manually by chain saw (piece cutters)

manually by chain saw (piece cutters).



Stand	d Level 4 Co	ver Type		Size Der	nsity	Acres	Stand Age	BA Range	Managed Sit	e	General Comments
33	4211 - Plant	ted Red Pir	ne	Unspec	cifed	4.2	0	Immature			2025 - planted trees are about 1 foot tall. 2023 - planted to red pineOPIC - FMD: 2011 Comments: Stand harvested in October 2010 by Holli Forest Products, Inc. TS#32-111-07-01 (Mother Goose Mix). Stand was marked to about 50 ft/ac. Limbs and tops were ground/chipped. 2005 Comments: Stand was planted to red pine about 1965, with jack pine volunteers seeding in soon after (furrow rows oriented north-south). Jack pine now outnumber red pine, but red pine are of good form, etc. Thin stand in 2007 to benefit the red pine, leaving some jack pine also for optimum stocking of 60 sq.ft/A or above. Site index for red pine (70) exceeds that for jack pine (65). This stand will provide aesthetic benefits as seen from Camp Hope Road and this may be a reason it was originally planted here. I found a planting form No. 112 for machine planting red pine here in Oct. 1965. Prepared Under Sale 32-105-17 Coyote & A Covey Mix. Residual is in areas. Planted Spring 2023
34	4133 - Aspe	n, Mixed Pi	ne	Sapling	Well	11.1	26	Immature	N/A		2025 - the red pine inclusion should be thinned. The rest of the stand is
	Canopy Species	% Cover	Size Class	DBH	Age						not quite merchantable size. 1/9/2015: Aspen with some scattered jack pine and a patch of red pine.OPIC - FMD: This stand was
	Quaking Aspen	75	Log	4	26						commercially cut in Dec. 1998 by Tom St. John (Oro Logging Co.) under
	Red Pine	20		10							permit # 5-97, "Camp Hope Road Sale". Oak, cherry, red and white
	Jack Pine	5	Log	3							pine were left for aesthetics and diversity. A small patch of remnant planted red pine in rows exists in the north end of this stand. These red
											pine were machine planted in Oct 1965 under planting form #112. A few birch were marked to leave (mostly dead in April 2005) also on the hill or knob, the highest part of this stand.
35		ack Spruce		Poletimbe		9.8	102	51-80	N/A		2025 - better quality timber than stand 14. 5/28/15: Wet stand, lots of sphagnum. Decent quality black spruce.OPIC - FMD: This is a
	Canopy Species Black Spruce	% Cover	Size Class Sapling	DBH	102						potential biodiversity mgt area buffering the Wild West Creek. See
	Balsam Fir	2	Sapling	5	102						cmpt header for additional comments.
	Tamarack	3	Seedling	7							
36	612 - Lowland C	Coniferous I		Unspec	cifed	5.1	0				2025 - stand is regenerating fairly well to black spruce and jack pine. It is nearly tall enough to be considered a forested stand. Continue to monitor. This stand was prepped as part of Brad's Bear aspen SBW (32-119-16-01). A SBW sale this area was set up a year early to salvage fir volume. The stand was harvested in the winter of 2016-17 by J Carey logging.
38	4123 - F	Red Oak	S	awtimber	Medium	n 35.6	90	51-80	N/A		Stand of log sized oak that was cut through about 1998-2000. The
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	overstory is 3/4 full with log sized oak and the regeneration is nearly all red maple and some aspen. A harvest to regenerate the oak makes
	Red Oak	100		15	90	Re	ed Maple	Medium	10 - 20 feet	10 - 20 feet	sense here but may need more treatment to get oak back with the
						Qual	king Aspen	Low	10 - 20 feet	10 - 20 feet	understory stocked with red maple and aspen.
39	612 - Lowland C	Coniferous I	Forest	Unspec	cifed	5.6	1				2024 - Stand is regenerating to lowland conifer. The trees that can be seen are about 1 foot tall. Continue to monitor. Prepared Under Sale 32-105-17 Coyote & A Covey Mix. Residual 2.5SF of WP. Cut winter of 2021 by Holli FP.OPIC - FMD: Small creek drains this swamp and exits from the southeast corner, passing through a 12 inch plastic culvert under the road. Stand appears somewhat unevenaged, a variety of size classes. Some jack pine in north end.



Stand	d Level 4 C	over Type		Size Density	Acres	Stand Age	BA Range	Managed Sit	e	General Comments
40	4116 - Mixed N.	Hardwood -	- Aspen	Sapling Well	4.9	4	Immature	N/A		2025 - stand was harvested in 2024 by Holli. Regeneration is good.
	Canopy Species	% Cover	Size Class	DBH Age						Heavy to red maple with aspen mixed in. 12/22/14: Small hardwood stand, dominated by red maple. Is in need of harvesting. OPIC - FMD:
	Red Maple	60	Log	1 4						Stand is generally an east facing slope. It has been burned in the past
	Quaking Aspen	40	Log	1 4						(whether by wildfire or prescribed burn?) plow furrows are still visible.
										Prepared Under Sale 32-105-17 Coyote & A Covey Mix. No residual per Rx.
41	500 -	- Water		None	1.0			No		Small pond. About half of the area is open water
42	42340 - Upl	and Spruce	/Fir	Poletimber Poor	4.9	40	1-50	N/A		2025- budworm did not hurt the stand bad. Spruce and fir are good
	Canopy Species	% Cover	Size Class	DBH Age						merchantable size. 1/8/2015: Open area that was previously part of aspen stand to the south west. This portion of the stand didn't
	Red Oak	10	Seedling	8 80						regenerate and is now predominantly an open stand with residual fir,
	Balsam Fir	55	Sapling	7 40						spruce, and some oak.
	White Spruce	35	Sapling	7						
43	6122 - Bl	ack Spruce	Р	oletimber Medium	n 3.1	62	51-80	N/A		2024 - small lowland spruce stand. Poor to good quality and variable sizes. OPIC - FMD: A small spruce type with some merchantable
	Canopy Species	% Cover	Size Class	DBH Age						volume, especially along fringes.
	Black Spruce	85	Seedling	8 62						
	Balsam Fir	3	Sapling	6						
	Quaking Aspen	6	Seedling	7						
	Tamarack	4		10						
	Jack Pine	2	Seedling	8						
44	330 - Low-	Density Tre	es	None	3.9			Yes		2025 - mixed deciduous trees but mostly open. OPIC - FMD: Located midway between the SWSW & SESW of Sec 10.
45	320 - Up	land Shrub		None	8.5			No		2015 - stand is still very open. There are a few scattered red maple and jack pine with a couple aspen clones. 12/18/14: Part of this stand was
					Sub-Ca	nopy Specie	es Density	/ Avg. Height	Size	a grass opening, the remainder (northern portion) was part of the
					Re	ed Maple	Low	5 - 10 feet	5 - 10 feet	adjacent stand that failed to regenerate and is now filling in with hazel
					Qual	king Aspen	Low	>20 feet	>20 feet	brush.
46	4130	- Aspen		Poletimber Well	3.5	34	51-80	N/A		2024 - Fully stocked, pole sized aspen stand. OPIC - FMD: Was
	Canopy Species	% Cover	Size Class	DBH Age						commercially cut in 1991 by Minerick Logging Inc., permit #14-87, "Swamp Stripcut Block".
	Jack Pine	5	Pole	4						• •
	Red Maple	5	Pole	4						
	Bigtooth Aspen	20	Seedling	5						
	Quaking Aspen	70	Seedling	5 34						

Gwinn Mgt. Unit

Report 7 - Stands

DEPARTMEN	DNR DNR	a ESOURCES
19	MICHIGAN .	ES

Compartment: 230

Year of Entry: 2027

Stand	Level 4 Cover Type		Size Density	Acres	Stand Age BA	A Range	Managed S	Site	General Comments	
47	42220 - Nat	tural Jack P	ine P	oletimber Medium		36	1-50	N/A	A	2024 - 6-8" 3-4 stick jack pine. Some sparse areas. SE survey corner is old but found it12/8/2014: Stand is filling in with jack pine. Some
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	areas are sparse, but trees are entering the pole size class and could be
	Jack Pine	100	Seedling	6 36	Sw	eet Fern	High	5 - 10 feet	5 - 10 feet	harvested for either cordwood or chips if paired with a stand in the main
						Sedges	Full	Not Applicable	Not Applicable	part of the compartment. 9/20/2005: OPIC - FMD: Stand is variable at present, ranging from G to J3 in stocking (overall a J2 average).
				В	lueberry/B	ilberry/Cranberr	y High	5 - 10 feet	5 - 10 feet	Averages 3 to 4 inch dbh, 12 to 20 ft tall. Parts of stand were roller
										chopped in past - marks still visible in the sod layer. The private forty west of this one has been cut recently (jack pine regeneration about 3 ft tall). Also I found corners of unknown origin (pipe, rebar, and/or steel fence posts) at three of the approx forty corners, and a registered corner exists at the Sec. Corner. I found a wildlife FTP #31-16 for roller chopping this stand (extending north into Sec 4) dated Nov 1978, - purpose was for sharptail grouse habitat. Note: at our 9/14/05 minireview, wildlife expressed their desire to manage this stand for grass. Thus it should be prescribe burned, or as an alternative, mechanically treated to eliminate the existing jack pine stand. Latest update: Robert Ziel field examined this stand for possibility of burning here, and recommended we hold till a merchantable cut can be made to liquidate this stand (possibly chipping slash for boiler fuel), and follow up with a burn. Thus long term objective for this stand is grass.
48	42120 - Pla	nted Jack P	ine	Sapling Well	15.8	26 In	nmature	N/A	A	2025 - stand is nearing the small pole aize class. Stand is fully stocked
	Canopy Species Jack Pine	% Cover 100	Size Class	DBH Age 4 26						and appears healthy.5/28/2015: Stand is in good shape. The few white birch that were left along the road have started to die off. OPIC - FMD: This stand was commercially cut in Dec. 1998 by Tom St.John (Oro Logging Co.) under permit # 5-97, " Camp Hope Road Sale". Oak, cherry, red and white pine were left as well as a few birch for aesthetics near the road. Herbicide as needed, disk trench, and planted to jack pine (in 1999 or 2000). FTP #C31-391.
49	4222 - Natı	ural Jack Pi	ne	Sapling Well	3.8	13 In	nmature	N/A	A	1/8/2015: Stand was trenched & seeded November 2013. OPIC - FMD: 2011 Comments: Stand harvested in October of 2010 by Holli Forest Products, Inc. TS# 32-111-07-01. All birch were left. Tops and limbs from this stand were ground/chipped. 2005 Commnets: Most of birch would be left for aesthetics here due to travel influence. Also the oak if any present. Small triangle of land north of Flat Rock Road was cut in 2001 as part of an adjacent sale (#106-01-01) in Sec 8 (Cmpt 231). It was subsequently disk trenched & seeded with jack pine, but no birch were cut during the timber sale. Oak, cherry, red & white pine were left as well. I believe it was trenched & seeded in 2003. The alternative acceptable management objective here is aspen - red maple.
50	4130	- Aspen		Sapling Well	4.8	4		N/A	4	2024 - Aspen regeneration looks good. Fully stocked stand. Cut by
	Canopy Species	% Cover	Size Class	DBH Age						Holli winter of 202112/19/2014: Evidence of fire within this stand, not
	Quaking Aspen	80	Log	1 4						sure if it's from a prescribed burn or natural fire. Plow furrows are still visible. Prepared Under Sale 32-105-17 Coyote & A Covey Mix. No
	Balsam Fir	5	Log	1						residual per Rx.
	Red Maple	15	Log	1						
	•		-							



Stanc	Level 4 C	over Type		Size Density	Acres	Stand Age	BA Range	Managed Si	ite	General Comments	
51	4211 - Plar	nted Red Pi	ne	Unspecifed	3.9	0	Immature			2025 - planted to red pine in 2023. Trees are about 1 foot tall.	
		Canopy Species % Cover Size Class								1/7/2015: Stand was scarified in November of 2013 using the JD 440 and small chains. Scarification was very poor as the ground was partially frozen. Recommend conversion to red pine. OPIC - FMD: 2011 Comments: Stand harvested in October 2010 by Holli Forest Products, Inc. TS# 32-111-01-01 (Mother Goose Mix). All oak were left and scattered white birch clumps were marked to leave to satisfy retention. Tops and limbs were ground/chipped. 2005 Comments: Stand occupies a small hill. Red maple is of stump sprout origin. Larger oak & birch present. All oak will be left. Hazel brush present also. Scarify or summer log to encourage oak regeneration. Stand adjacent to the wes has been cut & oak was left. The portion of the stand north of the Camp Hope Rd. should be selectively cut for aesthetic purposes since it influences a small pond and bog.Planted Spring 2023.	
52	42340 - Upl	and Spruce	/Fir P	oletimber Medium	1 4.1	65	51-80	N/A		2025 - agree with previous comments. 5/28/2015: Stand is just a thin	
	Canopy Species	% Cover	Size Class	DBH Age						strip of predominantly balsam fir that was left as a buffer when the aspen to the east was harvested. Spruce budworm is evident in the	
	Black Spruce	15	Sapling	6						stand. Stem diameters are quite variable throughout the stand; balsam	
	Jack Pine	10	Seedling	8						is mainly 4-5 inches with some around 8", aspen, red maple, and jack pine are around 7-8", with the spruce in that same area. Probably a	
	Red Maple	5	Seedling	7						result of the last spruce budworm outbreak. Stand is harvestable.	
	Balsam Fir	50	Sapling	6 65						OPIC - FMD: This stand is a biodiversity mgt area. See cmpt header for	
	White Spruce	10	Sapling	7						additional comments. This is a buffer that was left when stand 16 was cut. It serves as a beaver deterrent, for aesthetics and diversity.	
	Quaking Aspen	10	Seedling	8						cut. It serves as a beaver deterrent, for destriction and diversity.	
53	4130	- Aspen		Sapling Well	1.5	17	Immature	N/A		2025 - sapling size aspen stand. OPIC - FMD: Harvested in 2008: TS#110-07-01.	
	Canopy Species	% Cover	Size Class	DBH Age						13#110-07-01.	
	Quaking Aspen	100	Log	2 17							
54	3105 - Mixed U	pland Herba	aceous	None	1.4			No		2024 - stand has filled in some with aspen regeneration from cutting the	
					Sub-Ca	nopy Specie	es Density	Avg. Height	Size	surrounding stand. It will probably be considered a forested aspen stand in the next inventory cycle. 12/19/2014: Small grass opening within a	
					Pa	per Birch	Low	>20 feet	>20 feet	larger aspen stand. Scattered white birch clumps and a handful of single	
								1		aspen trees.	
55	4130	- Aspen		Sapling Medium	5.8	14	Immature	N/A		2025 - stand is at fair stocking level. Poorer quality aspen. 1/8/2015:	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	Stand meets stocking, however, the site is fairly sandy and aspen seems to be struggling somewhat. Would be worth monitoring stocking	
	Red Maple	5	Log	2	Hazel	nut (Beaked)	Low	5 - 10 feet	5 - 10 feet	levels to see if a conversion may be in order. OPIC - FMD: Stand	
	Quaking Aspen	95	Log	2 14						harvested in October 2010 by Holli Forest Products, Inc. TS# 32-111-07 01 (Mother Goose Mix). All oak were left, scattered birch and red maple were marked to satisfy retention. Tops and limbs were ground/chipped.	



Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed Sit	e	General Comments
56	42220 - Nat			Sapling N		7.3	26	Immature	N/A		2024 - agree with previous comments. 5/28/2015: Stand is quite thick in places with jack pine, and then thins out as you head east. East end is
	Canopy Species		Size Class		Age						more aspen than jack pine. OPIC - FMD: This stand was commercially
	Jack Pine	67		4	26						cut in Dec.1998 by Tom St.John (Oro Logging Co.) under permit # 5-97,
	Quaking Aspen	25	Log	4							"Camp Hope Road Sale". Access was from the northwest across narrow strip of swamp. Future stand will likely be a mix of aspen, balsam
	White Spruce	5	Seedling	6							fir, spruce and jack pine, with jack pine being dominant. This jack pine
	Balsam Fir	3	Sapling	5							is natural and not the result of disk trenching & seeding. Oak, cherry, red and white pine were left uncut. Soil is sandy here. This stand is essentially an island of high ground surrounded by swamp.
57	42220 - Nat	ural Jack P	ine Po	oletimber	Medium	11.4	36	1-50	N/A		2024 - pole sized jack pine with a mix of other upland conifer species as
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	well.OPIC - FMD: Was commercially cut in 1988 by Oscar Antilla from Republic, permit #12-87, "Camp Eleven Creek Block". This was
	Quaking Aspen	5	Seedling	6		Sw	eet Fern	Medium	5 - 10 feet	5 - 10 feet	followed by a K-G treecutter treatment under FTP #W31-185 . This post-
	White Pine	30	Seedling	6							treatment or the logging itself initiated this natural regeneration of jack
	Red Maple	5	Seedling	8							pine here. A significant and surprising amount of white pine regeneration is mixed in as well, plus a trace of fir and red pine. Scattered larger
	Jack Pine	60	Seedling	6	36						remnant red maple, but few in number.
58	4132 - Asp			Poletimb		1.3	31	51-80	N/A		2024 - fully stocked, pole sized aspen stand with some jack pine mixed in. OPIC - FMD: Was commercially cut in 1991 by Minerick Logging
	Canopy Species		Size Class		Age						Inc., permit #14-87, "Swamp Stripcut Block". A trespass occurred here
	Jack Pine	20	Seedling	5							on Mich. Northwoods Club property on the NWSE of Sec 15, because
	Quaking Aspen	80	Seedling	5	31						we used their north-south fenceline as the sale boundary. Now as of Sept 2003, Paul Bressette set the 1/16th corner falling on the west edge of the road and revealed that their fence is in error (too far east
											about 100 ft). Their fence is also too far south (approx 2.5 chs) where it runs east-west, but Minerick's cutting stopped at the fence for stand 24.
59	611 - Lowland	Deciduous I	Forest	Unspe	cifed	5.0	1				2024 - spruce and tamarack regeneration is doing decent. Most is 3-6 feet tall. It will be fully stocked if it fills in a little more. This stand was prepped as part of Brad's Bear aspen SBW (32-119-16-01). A SBW sale this area was set up a year early to salvage fir volume. The stand was harvested in the winter of 2016-17 by J Carey logging.
60	3102	- Grass		Nor	ne	1.6			No		2025 - opening is starting to fill in with trees. Some are near merchantable size5/28/15: Grass and sweet fern. OPIC - FMD: Was herbicided in July 1989.
61	413 -	· Aspen		Unspe	cifed	1.7	4				2025 - Stand was harvested in 2021. Starting to regenerate to aspen and conifer. Continue to monitor. 12/189/2014: Harvest with adjacent stand. OPIC - FMD: This parcel was made known following a 2003 survey when the 1/16th corner just west of the road was set. It was not cut in 1994 by Minerick's swamp sale in stand 24 because the Mich. Northwoods Club fenceline was in trespass on State land here. Prepared Under Sale 32-105-17 Coyote & A Covey Mix. No residual.
62	42220 - Nat	ural Jack P	ine	Sapling	Well	3.1	12	Immature	N/A		2025 - most jack pine is 10-15 feet tall. In the open spots it is seeding it. There is a 1/4 acre low spot in the middle of the stand. Spruce will
	Canopy Species	% Cover	Size Class	DBH	Age						probably grow back in the wet soils there.1/8/2015: Stand trenched &
	Jack Pine	90	Log	1	12						seeded 11/2013. Harvested in fall of 2010 by Holli Forest Products, TS
	Quaking Aspen	5	Log	1							#32-111-07-01 (Mother Goose Mix)
	Black Spruce	5	Log	1							



Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed Si	te	General Comments
63	4130	- Aspen		Sapling	Well	1.5	26	Immature	N/A		2024 - stand looks heathy and fully stocked. Growing well. This stand
	Canopy Species	% Cover	Size Class	DBH	Age						was cut with the adjacent compartment on the west side of the Flat Rock Rd. Partially trenched and seeded and the remainder is volunteer
	Quaking Aspen	95		3	26						aspen regen.
	Jack Pine	5		3							
64	4211 - Plar	ited Red Pii	ne	Unspe	cifed	28.4	2	Immature			OPIC - FMD: Stand is situated east of trail road and a harvest here will be delayed for 10 yrs to provide aesthetic benefits since essentially all surrounding stands have been or are being cut at this time. Prepped under 3210517 Coyote & a Covey. Residual BA 9.3SF oak, .7SF red pine. Cut By Holli FP in the winter of 2021
											Planted Spring 2023.
65	6122 - BI	ack Spruce		Poletimb	er Well	52.0	90	81-110	N/A		2025 - mature lowland conifers that are ready for harvest. Some areas
	Canopy Species		Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	mostly in the west end of the stand. Stand is mostly spruce and
No	orthern White Cedar	15		8			k Spruce	Low	5 - 10 feet	5 - 10 feet	tamarack with some cedar pockets. Mostly lowland with couple high
	Tamarack	15		8		Та	ig Alder	Low	5 - 10 feet	5 - 10 feet	spots. Stand contains a small stream that runs from the Nortwest corner of stand 65 and ties in the Northwest corner of stand 66 and flows into
	Black Spruce	70	Seedling	7	90	Ва	Isam Fir	Low	5 - 10 feet	5 - 10 feet	the stream in that stand.
66	6129 - Mixed Conif	erous Lowla	and Forest	Poletimb	er Well	10.7	90	51-80	N/A		2025 - the stream runs along the north and west edges of the stand. About 2/3 of the stand would be harvestable after a buffer on the
	Canopy Species		Size Class		Age						creek.5/28/15: Mixed stand, very clumpy in nature. Tamarack, cedar,
No	orthern White Cedar	30		9							and black spruce all occur in essentially their own patch. The confluence
	Tamarack	35	Seedling	9	90						of two creeks are in this stand that form the beginning of the Wild West Creek. OPIC - FMD: This is a biodiversity mgt area for the purpose of
	Black Spruce	35	Seedling	8							buffering the Wild West Creek. See cmpt header for additional comments.
67	6122 - BI	ack Spruce	·	Poletimb	er Well	29.1	102	51-80	N/A		2025 - narrow atrip of black spruce bordering the wild west creek and
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	surrounding wetlands. OPIC - FMD: This stand is a potential biodiversity mgt area buffering the Wild West Creek. See cmpt header
	Quaking Aspen	5		10		Ва	Isam Fir	Low	5 - 10 feet	5 - 10 feet	for additional comments.
	Jack Pine	5		10				1			1
	Black Spruce	80	Sapling	6	102						
	Balsam Fir	10	Sapling	6							
68	42220 - Nat	ural Jack P	ine	Sapling N	/ledium	2.0	13	Immature	N/A		2025- stand is well stocked in most places but some open patches exist
	Canopy Species	% Cover	Size Class	DBH	Age						It will continue to fill in with jack pine and other species. So residual tree were left on the edge of the stand when the surrounding stands was
	Jack Pine	75	Log	1	13						harvested. 1/9/2015: Stand was trenched and seeded in November
	Black Spruce	25	Log	1							2013, FTP #32-765 . OPIC - FMD: Stand harvested in October 2010 by Holli Forest Products, Inc. TS# 32-111-07-01 (Mother Goose Mix). Stand is an island of high ground surrounded by swamp.



Stand	Level 4 Cover Type Size Density 612 - Lowland Coniferous Forest Unspecifed			Size Density		Acres	Stand Age	BA Range	Managed Site		General Comments	
70				ecifed	7.0	4		2025 - east end of the stand was not harvested. Part of camp 11 creek blocks access from the west. The east side of the creek is nice mature spruce. Stand is fairy wet. Some evidence of mistletoe. Prepared Under Sale 32-105-17 Coyote & A Covey Mix. Residual 3.3 SF of Cedar, 6.7 SF of WP. OPIC - FMD: This is a potential biodiversity mgt area which serves to buffer the Camp Eleven Creek and tributaries. See cmpt header for additional comments. The fringes of this stand have the best timber, mostly spruce, grading into more tamarack/alder as you get closer to the water course. Perhaps the westernmost finger of spruce bordering private could be treated seperately in the future. We intended to cut up to the property line when stand 24 was cut, but newer survey work was done in 2003.				
71	613 - Lowland Mixed Forest Unspecifed		8.8	4				2025 - south end of the stand has regenerated well to aspen. The north and west portions have some conifers starting but it will take some time to tell if it will be fully stocked. Continue to monitor regeneration.				
72	4134 - Aspen, Spruce/Fir			Poletimber Well		48.4	50	81-110	N/A	4	2024 - stand is mature and ready to harvest. The small spruce pocket	
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	could be cut or left with the retention. Treat stand 5 in comp 238 to the south with this stand. 4/6/2015: Small pocket with some left over white	
	White Spruce	5		8		Ва	ılsam Fir	Medium	10 - 20 feet	10 - 20 feet	birch is in the southwest corner of the stand. It had previously been it's	
	Quaking Aspen	78		9	50				1	1	own stand but isn't any different that the aspen stand. 12/19/2014: There	
	Paper Birch	2		10							are a few black spruce inclusions within this stand that had previously been typed out as separate stands. OPIC - FMD: Was commercially cut	
	Black Spruce	5	Sapling	7	65						by Holli Forest Products, Inc. between 1973 - 75, permit #41/70 A,	
	Balsam Fir	10	Sapling	6							"Dewey Lake Block". This was a 180 acre sale which extended south into Cmpt 237. Specs were to cut all merchantable aspen, birch, &	
											maple all black spruce & fir with 2 or more sticks all white spruce 12 inch or larger in stump diameter and all jack pine in the spruce/fir & aspen/birch types. No cutting within 100 feet of Wild West Creek. This sale was a scale sale & it was cut manually by chain saw (piece cutters).	
74	6122 - Black Spruce			Poletimber Well		2.5	85	81-110	N/A		Small black spruce stand, more merchantable timber is located near \neg edges of stand. The west half of the stand has wetter soils and less	
	Canopy Species	% Cover	Size Class		H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	canopy cover.	
	Black Spruce	80	Sapling	7	85	Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet		
	Balsam Fir	10	Sapling	6								
	Tamarack	10	Seedling	8								
75	310 - Herbaceous Openland			None		8.8			No		2024 - opening is filling in with aspen and jack pine slowly. Cnsider cutting to maintain the opening. OPIC - FMD: This large opening has	
						Sub-Canopy Species Jack Pine			Avg. Height 10 - 20 feet	Size	had past treatment for sharptail grouse habitat, eg. Roller chopping and prescribed burning, etc. Patches of jack pine in this stand these serve to enhance the usefulness of this opening for wildlife.	
								Low		10 - 20 feet		
							Bigtooth Aspen		>20 feet	>20 feet		
400	310 - Herbaceous Openland				None		36.8		No)	2024 - very rough and rocky ground. Stunted cherry are at medium	
						Sub-Canopy Species		Density	Avg. Height	Size	density throughout the opening. There are some aspen clones and jack pine clumps in the stand as wellOPIC - FMD: This large opening has	
						Bigto	oth Aspen	Low	>20 feet	>20 feet	had past treatment for sharptail grouse habitat, eg. Roller chopping and	
						Ja	ick Pine	Low	10 - 20 feet	10 - 20 feet	prescribed burning, etc. Patches of jack pine in this stand these serve	
					L						[⊥] to enhance the usefulness of this opening for wildlife.	

Report 7 - Stands



Stand	Level 4 Cover Type	Size Density	Acres S	Stand Age	BA Range	Managed S	ite	General Comments		
406	320 - Upland Shrub	None	26.2			No		2025 - scrubby cherry brush and mixed shrub stand. 1/8/2015: Very brushy stand with scattered clumps and single trees. Red maple, cherry, red oak (12" dbh), and hazel. No record of maintenance in this stand. OPIC - FMD: Somewhat brushy in character with cherry (heavily damaged by feeding bear it appears), hazel brush, and some encroaching tree species such as aspen, maple, & jack pine. But it all adds to the diversity here and probably is very desirable in this condition to wildlife. In late March, there were badgers actively digging and spewing fresh dirt out upon the snow. They are becoming quite numerous in recent years in southern Marquette Co. (probably have no natural prey species that will tackle them). Buck rubs aren't hard to find in this area.		
409	3205 - Mixed Upland Shrub	None	5.9			Yes	3	2015 - stand is slowly filling in with trees. Most are at merchantable size.		
								1/7/2015: Grass opening between aspen stand and lowland conifer swamp. Part of opening is on a hill side. Very sandy soil. OPIC - FMD: Located in the NWSW of Sec 16, bordering swamp to the south.		
413	310 - Herbaceous Openland	No Herbaceous Openland None 6.6 No		1	2024 - aspen clones and conifers are starting to fill in. Overall very open still.OPIC - FMD: Was herbicided in 1989. A natural opening, generally devoid of trees.					
415	310 - Herbaceous Openland	None	1.7			No	•	2024 - fairly open with some scattered red mapleOPIC - FMD: Stand was herbicided in 1989. This is a south facing slope dropping down to		
				py Species		Avg. Height	Size	the swamp. Although it is not totally devoid of trees, it is nearly so. A few		
			Red	Maple	Low	>20 feet	>20 feet	red maple & birch & conifer, etc. It was never rock raked or disked & seeded - simply a natural opening.		
419	3302 - Low Density Conifer Trees	None	21.7			Yes		2024 - stand is very open with scattered jack pine and		
			Sub-Cand	py Species	s Density	Avg. Height	Size	ahrubs12/8/2014: Semi-open grass opening mixed with pockets of and scattered jack pine make up this stand today. Historically it had		
			Jacl	k Pine	Medium	10 - 20 feet	10 - 20 feet	been managed for sharp-tailed grouse. 9/200/2005: OPIC - FMD:		
								Currently it has sparse jack pine regeneration present. Per our mini- review held on 9/14/05, Wildlife would like to have this stand prescribe burned, or mecanically treated as an alternative. Robert Ziel visited this stand after the mini-review to assess it for prescribed burning.		
420	330 - Low-Density Trees	None	116.0 Yes			Yes	3	2024 - trees are slowly starting to fill in the opening. Mostly jack pine clumps and aspen clones. Overall the site is very open. There are a		
			Sub-Cand	py Species	s Density	Avg. Height	Size	couple small ponds in the NE end of the stand. 12/8/2014: Grass		
				th Aspen	Low	Variable	Variable	opening complex that was historically managed for sharp-tailed grouse.		
			Jacl	k Pine	Low	10 - 20 feet	10 - 20 feet	Scattered clumps of jack pine and aspen. Scattered areas of shrubs. Historical notes state that Autumn Olive, hawthorn, and Siberian crab		
								were planted here along the south east edge. 9/20/2005: OPIC - FMD: Some sparse to medium stocking of natural jack pine regeneration		
								already exists in patches here. Per our mini-review held on 9/14/05,		
								Wildlife would like this stand burned by prescribed fire, or mechanical treatment is also an acceptable alternative to burning. Robert Ziel visited this stand after the mini-review and concluded a prescribed burn here is feasible.		

Gwinn Mgt. Unit

Report 7 - Stands



Stand	Level 4 Cover Type	Size Density	Acres Stand Age BA	A Range	Managed S	ite	General Comments	MICHIGAN W
421	310 - Herbaceous Openland	None	3.0	1			2024 - some pole sized jack pine but otherwise very open.OPIC -	
			Sub-Canopy Species	Density	Avg. Height	Size	FMD: Grass opening mostly east of trail road and bounded by Northwoods Club on east.	VIICI I.
			Jack Pine	Low	10 - 20 feet	10 - 20 feet		