

# **Compartment Review Presentation**

**Gwinn Forest Management Unit** 

Compartment 32097 Entry Year 2027 Acreage: 2,322

Management Area: Menominee-Marguette

County: Alger

Stand Examiner: Matt Yeo

**Legal Description:** 

T45N R21W Sections 23-26, 35, 36.

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

To improve the quality and diversity of State forests and wildlife through proper habitat management, while protecting the riparian values of our wetlands and waters.

# Soil and topography:

Area is mostly flat to gently rolling. There are some moraines and other glacial features. Notable are a series of steep north-south ridges that are the former riverbanks of the ancient river that drained glacial Lake Duluth. Soils included Chatham cobbley fine sandy loam, Shoepac-Trenary silt loam, Traunik gravelly fine sandy loam, Kalkaska sand, Kalkaska-Waiska complex, Charlevoix-Ensley complex, Eben very cobbley fine sandy loam, Charlevoix silt loam, and Carbondale, Lupton, Tawas, Chippany-Nahma mucks.

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

Year round residences and hunting camps. Some active farms nearby. Hiawatha National Forest is east of the basin.

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

Autrain Waterfowl Refuge and associated large opening complex, the Autrain Basin. A large spring appears, creates a short creek, then disappears back underground.

### Archeological, Historical, and Cultural Features:

No archeological hits in our data base. MNFI has previous records for bald eagle, loon, grasshopper sparrow.

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

The Autrain Waterfowl Project Area of which includes this compartment.

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

Fisheries Concerns: Johnson Creek, a designated trout stream, flows through the northern portion of this compartment. Johnson Creek contains native Brook Trout and serves as nursery habitat for a wide variety of species from AuTrain Basin, including Smallmouth Bass, Panfish, and Walleye. A 300-foot buffer is recommended in the riparian areas of Johnson Creek that are susceptible to Aspen regeneration. Regarding the unnamed tributary south of Johnson Creek, a site visit determined that a 200-foot buffer is sufficient for this segment from stand 010, which will be susceptible to aspen regeneration post treatment. 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 Menominee-Marquette Management Area, on ground moraines in northern Dickinson and southern Marquette Counties. The dominant Natural Communities are mesic northern forest, poor conifer swamps, and dry mesic northern forest. Major forest cover types include Aspen, Northern Hardwoods, and Mixed Lowland Conifers. Almost every cover type and associated species can be found within the management area including several deer wintering complexes. This management area provides some of the finest grouse and woodcock hunting in the Midwest and this is a wildlife management priority that will continue. Wildlife management issues in the management area are early successional forest conditions (associated with alder, riparian zones, or forested wetlands); mast (hard and soft); habitat fragmentation; mature forest (upland deciduous, especially aspen and mixed forest with little understory); course woody debris; and deer wintering complexes. The following have been identified as featured species for the Menominee-Marquette Management Area: American Woodcock, Blackburnian Warbler, Cerulean Warbler, Golden-winged Warbler, Black-backed Woodpecker, Ruffed Grouse, Turkey, American Marten, Snowshoe Hare, White-tailed Deer, Black Bear.

### Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till and glacial outwash sand and gravel and post-glacial alluvium. The glacial drift thickness varies between 10 and 70 feet. The Ordovician Black River Group subcrops below the glacial 10/29/2025 1:20:32 PM - Page 1 of 2

drift. The Black River is quarried for stone/dolomite elsewhere in the UP. A gravel pit is located to the west in Section 28 and there may be potential on the east side of the compartment. This compartment has never been leased for metallic mineral exploration. There is no economic oil and gas production in the UP.

#### **Vehicle Access:**

Good throughout the compartment although some access is blocked from Sept. 1-Nov. 10 in the waterfowl refuge area.

#### **Survey Needs:**

While there are limited corners in this compartment, additional monumentation is needed here.

# **Recreational Facilities and Opportunities:**

This area is extremely popular for birding. Waterfowl hunting, upland bird and deer hunting is also popular as well.

#### **Fire Protection:**

This compartment has a low risk for fire.

#### **Additional Compartment Information:**

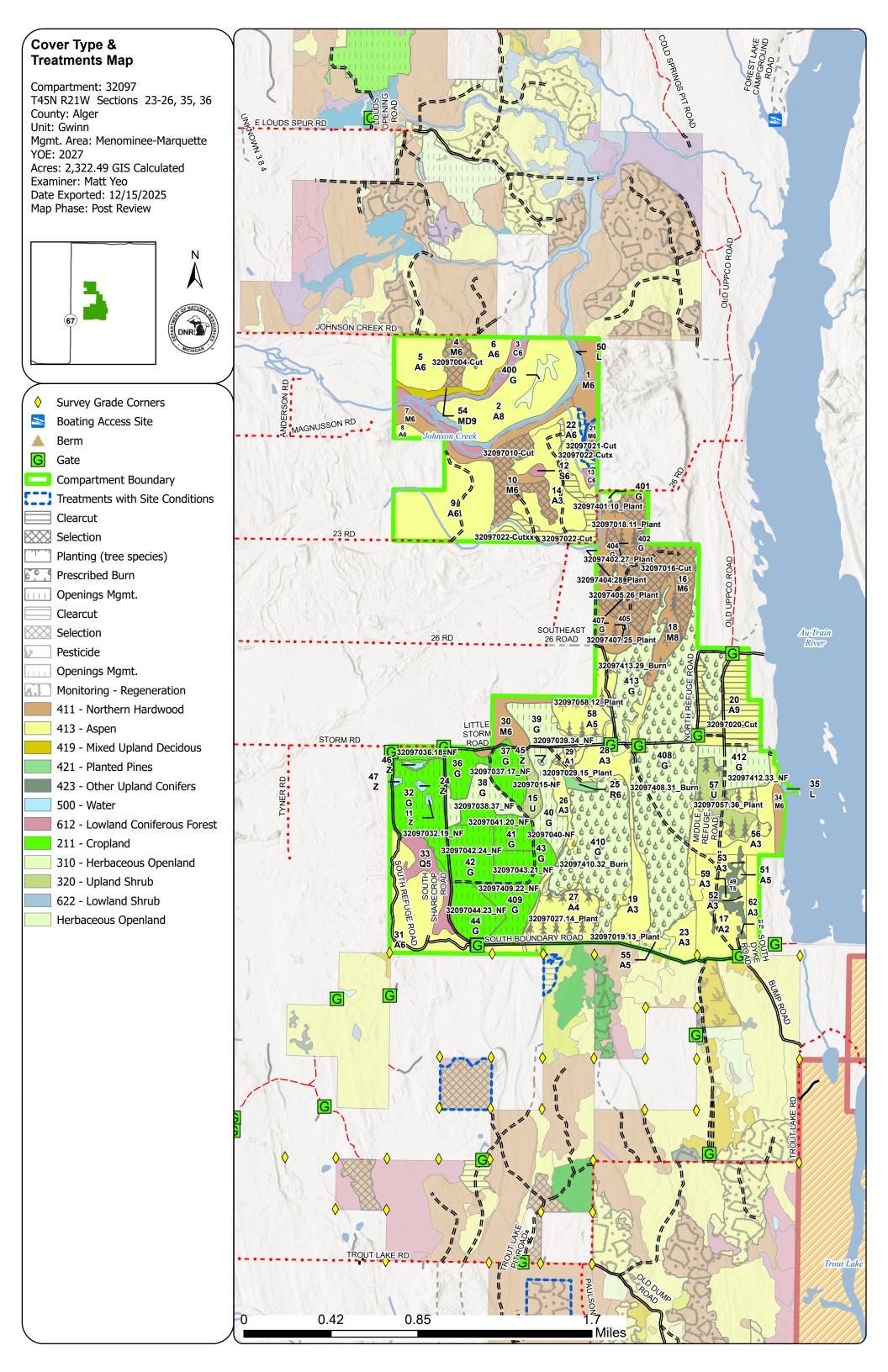
The following reports from the Inventory are attached:

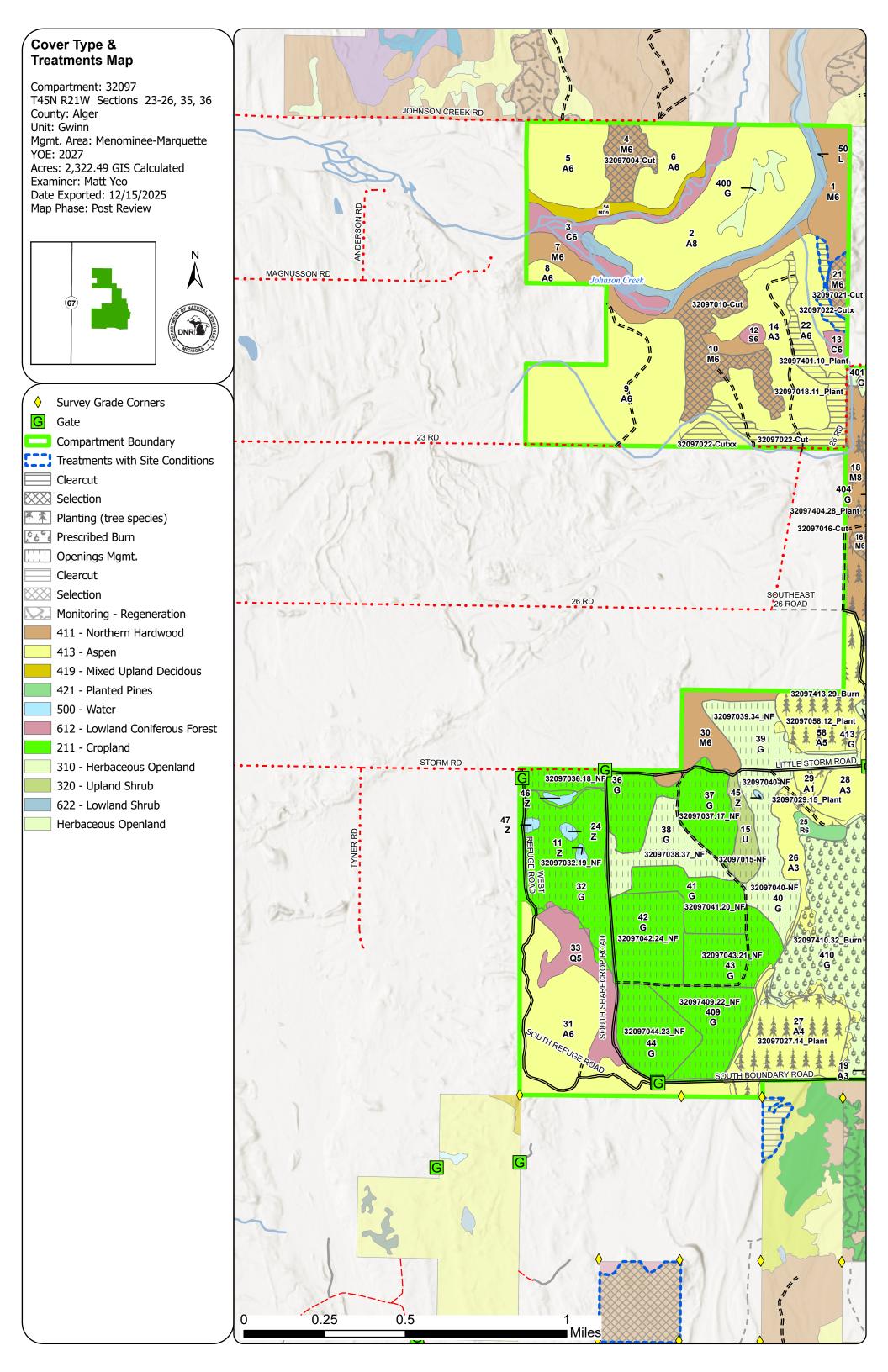
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

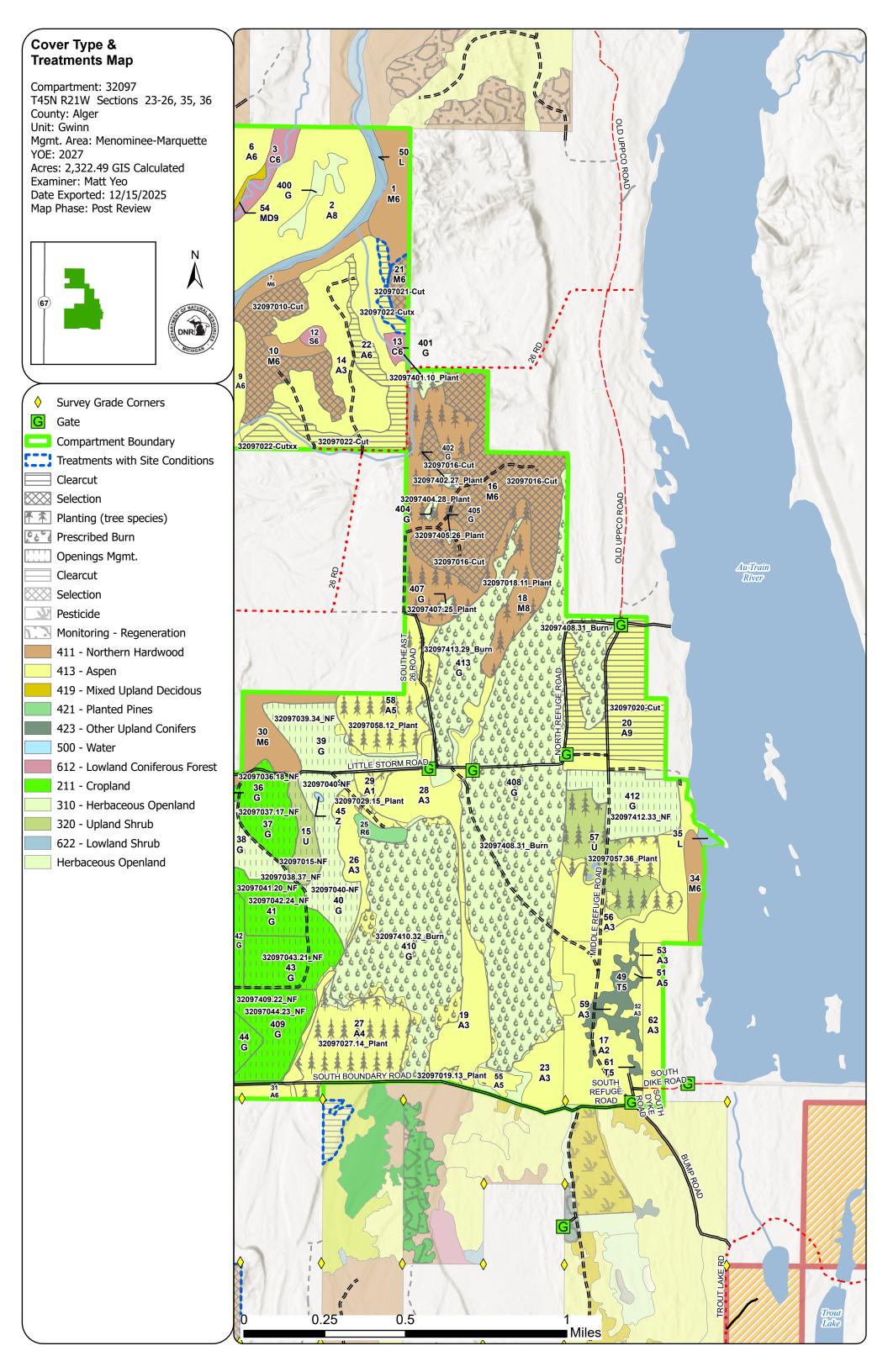
The following information is displayed, where pertinent, on the attached compartment maps:

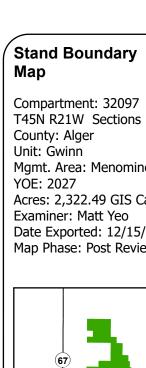
Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries

Details on the road access system





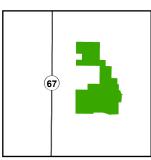




T45N R21W Sections 23-26, 35, 36

Mgmt. Area: Menominee-Marquette

Acres: 2,322.49 GIS Calculated Examiner: Matt Yeo Date Exported: 12/15/2025 Map Phase: Post Review







Survey Grade Corners



Gate



**Compartment Boundary** Stand Outline

411 - Northern Hardwood

413 - Aspen

419 - Mixed Upland Decidous

421 - Planted Pines

500 - Water

612 - Lowland Coniferous Forest

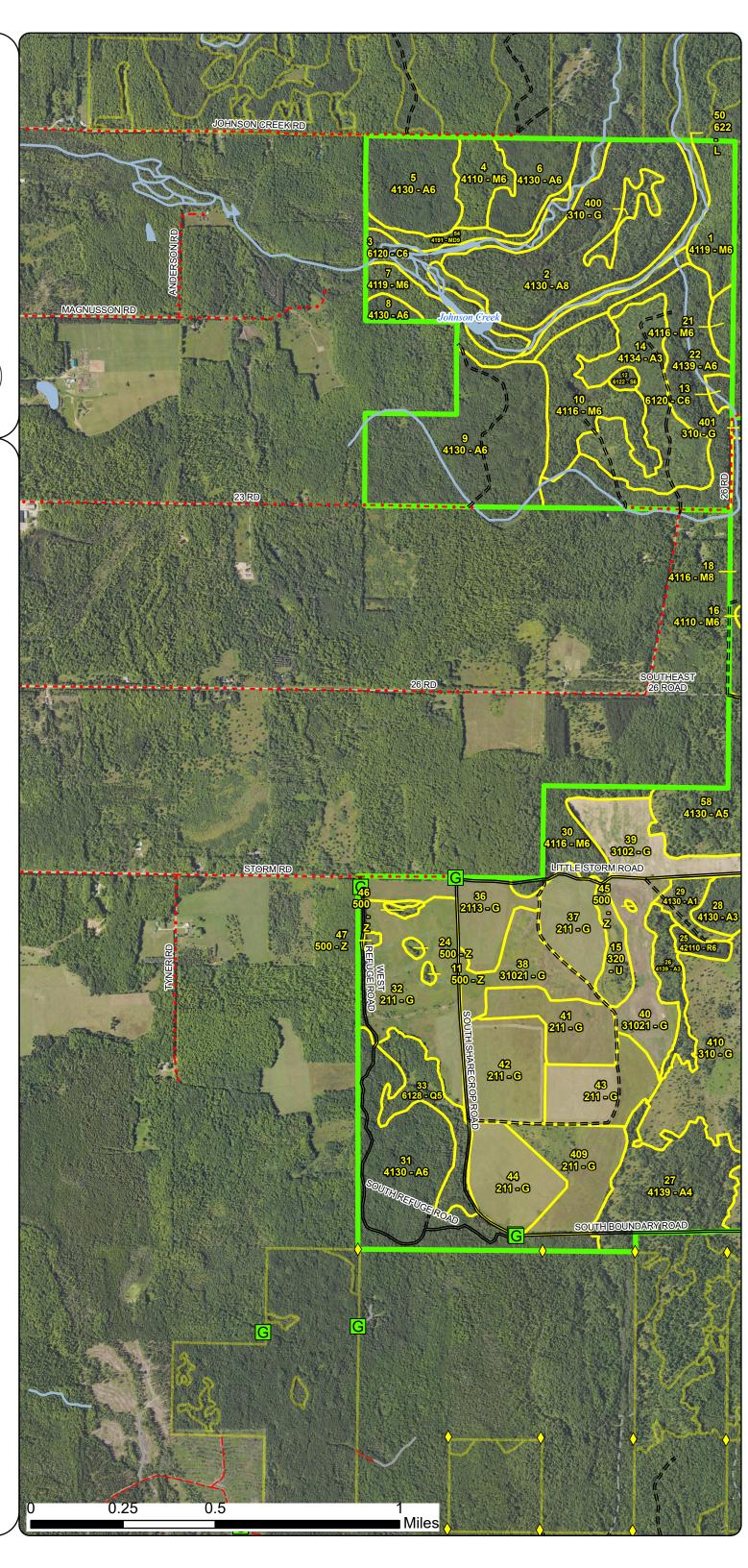
211 - Cropland

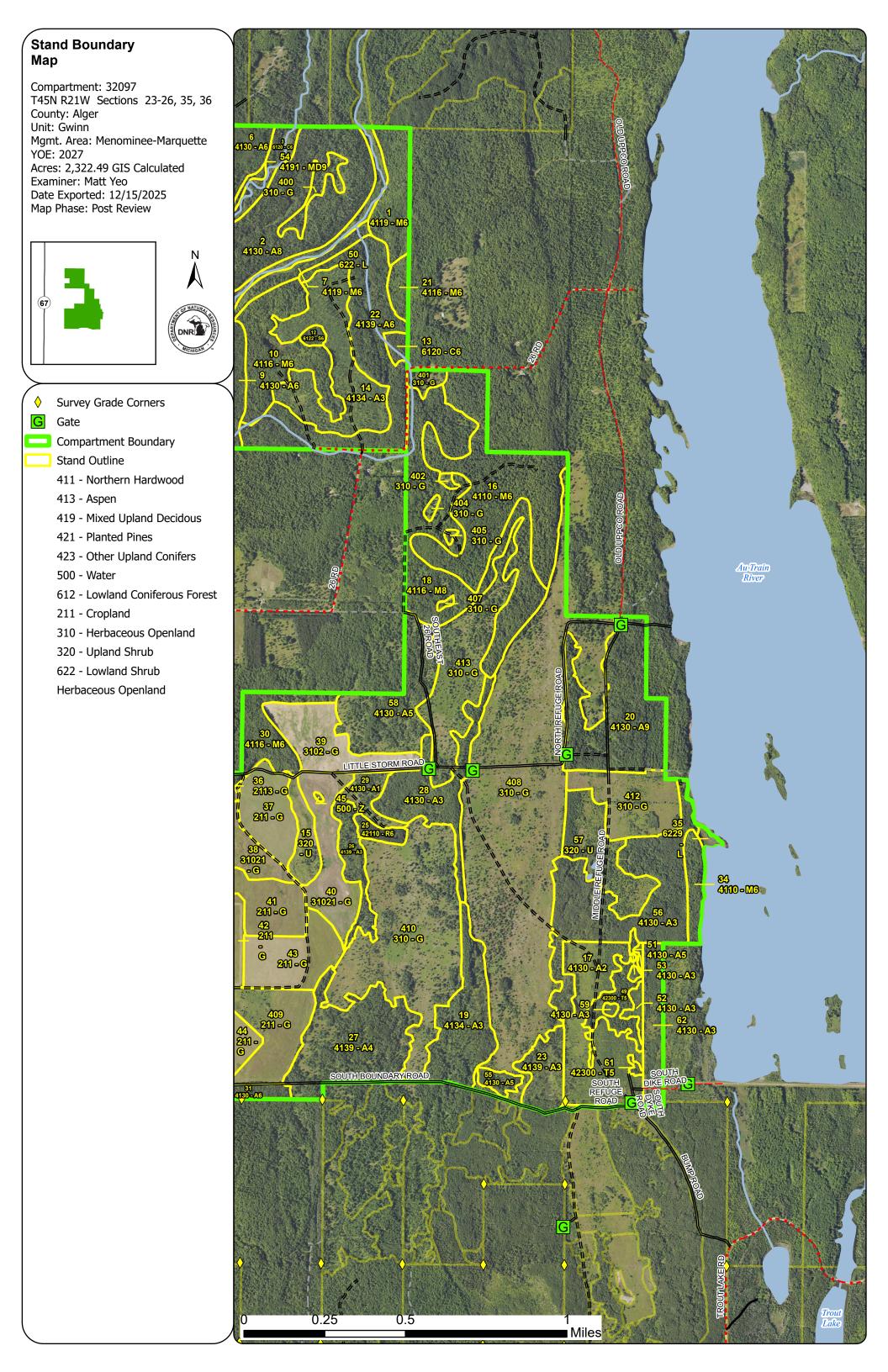
310 - Herbaceous Openland

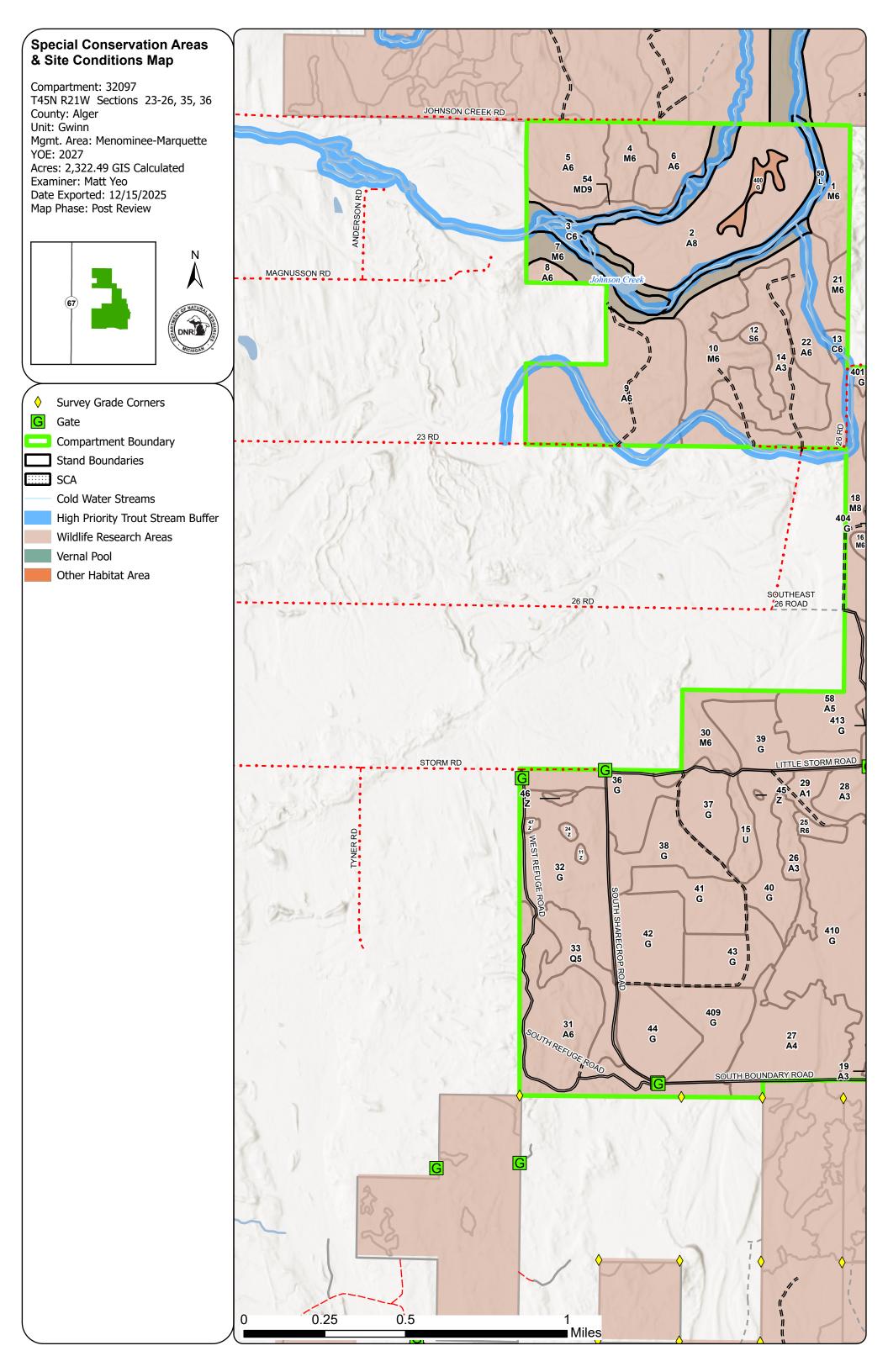
320 - Upland Shrub

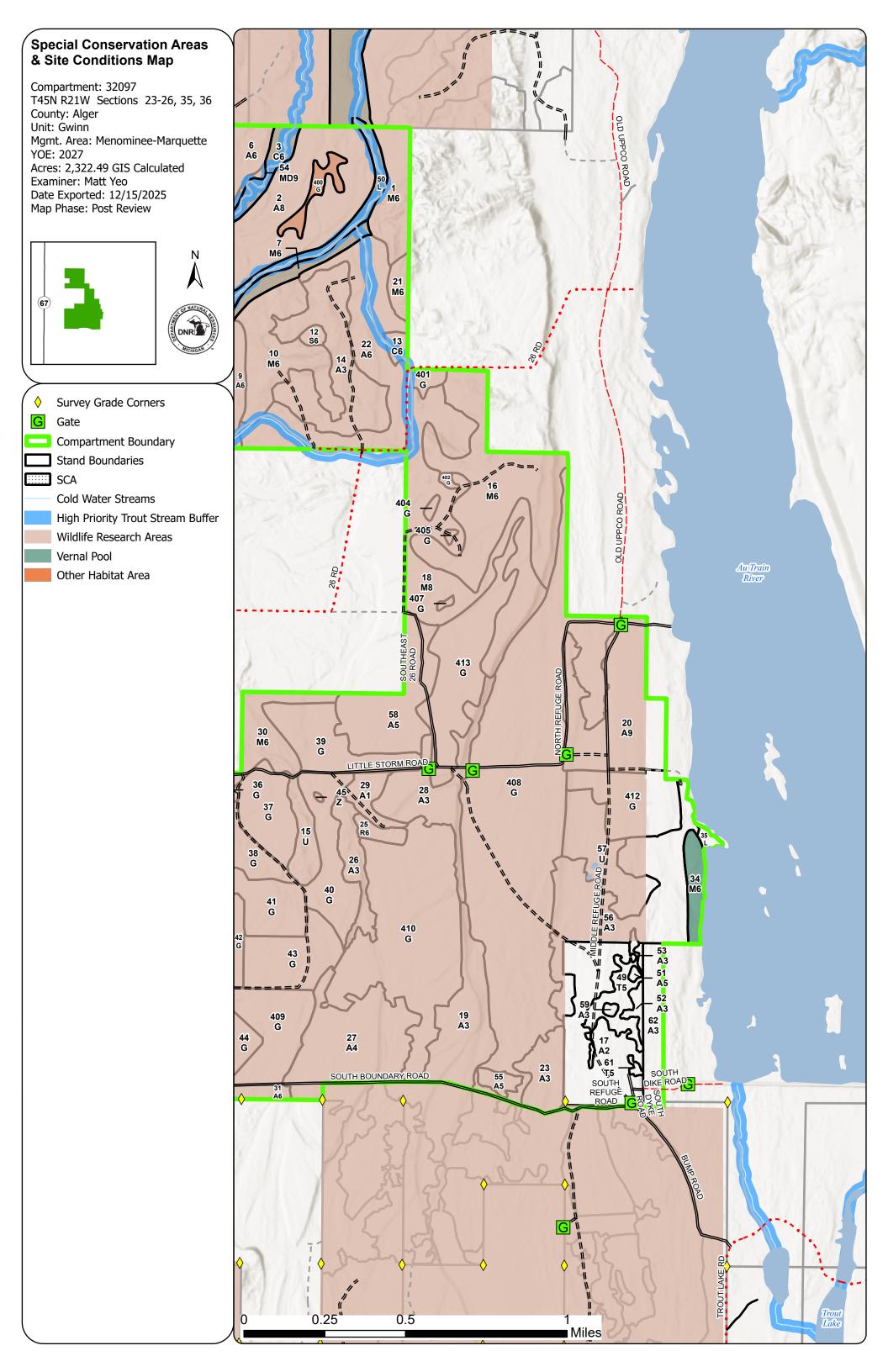
622 - Lowland Shrub

Herbaceous Openland









Gwinn Mgt. Unit Matt Yeo: Examiner



# Age Class

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	₽or.	80 / 6	§ / s					³ /s		\$ \{ \text{s}	\$ / &			\$ \{\star{\star}\}	<b>R R</b>	\$ <sup>8</sup> / s	NE /	š / 💰	
	/ 🚧			/ '	/ "	<u>/                                    </u>	<u>/ "</u>			<u>/                                    </u>	<u>/</u> "	/ 1/2		/ *	/ ~	_ ~		130	
Aspen	0	228	20	27	323	101	5	71	66	0	96	0	0	0	0	0	0	0	937
Cedar	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	36	0	40
Cropland	302	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	302
Herbaceous Openland	568	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	568
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	28
Lowland Shrub	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
Northern Hardwood	0	0	0	0	0	25	0	0	0	0	7	0	111	0	0	0	0	199	340
Red Pine	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
Tamarack	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Upland Shrub	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	944	228	20	27	339	131	5	71	69	0	103	4	111	28	0	0	36	210	2323



# **Report 2 – Treatment Summary**

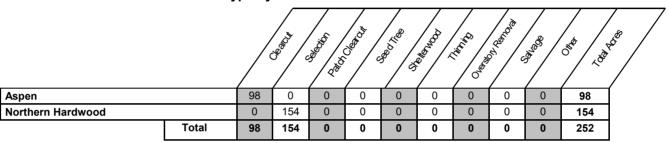
Gwinn Mgt. Unit Year of Entry: 2027

#### **Acres of Harvest**

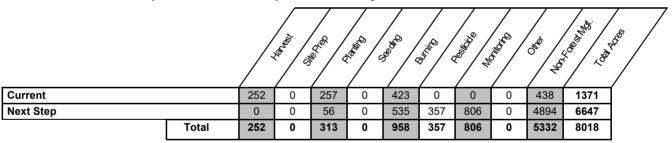
Compartment 97
Total Compartment Acres: 2,322

Commercial Harvest - 484 Harvests with Site Condition - 26 Next Step Harvest - 0 Habitat Cut - 0

# **Cover Type by Harvest Method**



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





Compartment: 32097

Year of Entry: 2027

t									rear or Entr	y. 2021	d 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
os	ed Treatmen	ts:									
4	32097004-Cut	17.6 4	110 - Sugar Maple Association	6	111	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
Pres Spe			ion, mark down to 6 ration. Maintain star								as of
	<u>tt Step</u> Monitor atments:	ring, Natur	al Regen (Re-Inven	tory)							
Acc Reg	eptable Northei jen:	n Hardwo	bc								
Oth Con	<u>er</u> nment:										
	Condition:	10/01/04									
Pro	posed Start Date	10/01/20	)26								
10	32097010-Cut		4116 - Mixed N. Hardwood - Aspen	6	188	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
Pres Spe			ion, harvest stand to ood regeneration wh								ase
	<u>tt Step</u> Monitor atments:	ring, Natur	al Regen (Intermedi	ate)							
Acc Reg		basswood	, spruce, fir, birch, c	cherry, asp	en						
Oth:											
Site	Condition:										
	posed Start Date	10/01/20	)26								
15	32097015-NF	13.1 3	320 - Upland Shrub	99			NonForestMgt	Openings Mgmt.	320 - Upland Shrub	Previous Inventory	No
Pres Spe			ebris and vegetation					eataion from the op		•	as well as
	<u>tt Step</u> Burn, C atments:	pening									
Acc Reg		s and sho	rt mixed-upland shru	ubs.							
Oth Con	<u>er</u> Percen nment:	t to Treat =	= 100%								
	Condition:										
Pro	posed Start Date	10/01/20	)26								
16	32097016-Cut	90.2 4	110 - Sugar Maple Association	6	111	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
Pres Spe			ion, harvest stand to ood regeneration wh								ase
	<u>tt Step</u> Monitor atments:	ring, Natur	al Regen (Re-Inven	tory)							
Acc Reg		basswood	, spruce, fir, birch, c	cherry, asp	en						
Oth Con	<u>er</u> nment:										
<u>Site</u>	Condition:										

Hardwood - Aspen Hardwood

Single tree selection, harvest stand to 60BA following the Northern Hardwood guidance and the complete marker guidelines. Release <u>Prescription</u> advanced hardwood regeneration where present. Maintain stand diversity while marking. Spec to cut all merchantable spruce, fi Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable maple, basswood, spruce, fir, birch, cherry, aspen

Regen:

Other Access into the stand will have to be through private in the east.

Comment:

Site Condition: Unknown Access Proposed Start Date: 10/01/2026

n	Treatment	Acres	Stand	Size	Stand	BA	Treatment	Treatment	Cover Type	Age	Habitat
d	Name		CoverType	Density	Age	Range	Type	Method	Objective	Structure	Cut
22	32097022-Cut	29.5	4139 - Aspen, Mixed Deciduous	6	60	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No

Prescription Cut all trees over 2" DBH except cedar, hemlock, yellow birch, cherry, and white pine. Create 9-10 drumming logs of any species (9-15-inch DBH) at least 8 ft long immediately adjacent to a stump lying flat on the ground should be randomly left in the stan

Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

t

Acceptable Aspen, fir

Regen: Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

32097022-51-80 Planting 4139 - Aspen, 6 60 Harvest Clearcut 413 - Aspen Nο 22 5.7 Cutx Mixed Deciduous Record

Prescription Cut all trees over 2" DBH except cedar, hemlock, yellow birch, cherry, and white pine. Retention areas site condioned out along Johnson Creek to the north and along a tributary in the southeast. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable Aspen, spruce, fir, hardwood

Regen:

Access into the stand will have to be through private in the east. Other

Comment:

Site Condition: Unknown Access Proposed Start Date: 10/01/2026

32097022-4139 - Aspen, 60 51-80 Harvest Clearcut 413 - Aspen **Planting** No Mixed Deciduous Cutxx Record

Prescription Cut all trees over 2" DBH except cedar, hemlock, yellow birch, cherry, and white pine. Retention areas site conditioned out along along a tributary in the southeast. Create 1-2 drumming logs of any species (9-15-inch DBH) at least 8 ft long immediately ad

Next Step Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable Aspen, fir

Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

32097027.14\_ 514 4139 - Aspen, 45 1-50 **Planting** Planting (tree 413 - Aspen **Planting** Nο Mixed Deciduous Record **Plant** species)

Prescription Plant mast producing trees and shrubs for wildlife

Specs:

Next Step Monitoring, Other - Specify

**Treatments:** 

Acceptable Recruitment of a portion of the trees/shrubs planted for the benefit of wildlife species.

Regen:

Percent to Treat = 100% Other

Comment:

Site Condition:

s t			Gwinn	Mgt. Unit		Repo	rt 3 T	Treatments		Compartmen Year of Entr		OF NATURAL AND LEY OF NATURAL AN
a n d		tment me	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
29		7029.15_ lant	7.1	4130 - Aspen	1	30	Immatu re	Planting	Planting (tree species)	413 - Aspen	Planting Record	No
Pres Spe		<u>Plant</u> n	nast produc	ing trees and shru	bs for wildl	ife						
	t Step atments		ring, Other	- Specify								
Acc Reg		Recruit	tment of a p	portion of the trees	/shrubs pla	nted for	the bene	fit of wildlife spe	cies.			
Othe Con	<u>er</u> nment:	Percer	nt to Treat =	: 100%								
Site	Conditi	on:										
Prop	posed S	tart Date	<u>e:</u> 10/01/20	26								
32		7032.19_ NF	63.0	211 - Cropland	99			NonForestMgt	Openings Mgmt.	211 - Cropland	Previous Inventory	No
Pres Spe	scriptior cs:	<u>1</u> 2016										
	t Step atments								tive); NonForestM lowing; NonForest			Pesticide,
Acc Reg	eptable len:	-										
Othe Con	<u>er</u> nment:	Percer	nt to Treat =	: 100%								
Site	Conditi		. 40/04/00									

NF Inventory

Prescription Specs: The goal is to manage these openings for wildlife and to create a partnership with the local agricultural community. The work needed will be done with the help of sharecropping, through the use of contracts, or with DNR personnel.

These openings will

NonForestMgt, Herbaceous/Crop/Grass Planting (inactive); NonForestMgt, Mowing; NonForestMgt, Fruit Tree/Shrub Planting; Pesticide, Treatments: (Inactive)Skidder/Mechanical; NonForestMgt, Mowing; Non

Acceptable Regen:

Other Percent to Treat = 100%

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

Previous

No

Compartment: 32097

Year of Entry: 2027

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

37 32097037.17 26.2 211 - Cropland 99 NonForestMat Openings Mgmt. 211 - Cropland Previous No Inventory

Prescription The goal is to manage these openings for wildlife and to create a partnership with the local agricultural community. The work needed will be Specs: done with the help of sharecropping, through the use of contracts, or with DNR personnel.

These openings will

Next Step Pesticide. (Inactive)Skidder/Mechanical: NonForestMgt. Mowing: NonForestMgt. Herbaceous/Crop/Grass Planting (inactive): NonForestMgt, Fruit Tree/Shrub Planting; NonForestMgt, Mowing; Non Treatments:

Acceptable Regen:

S

t а

n

d

Percent to Treat = 100% Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

32097038.37\_ 30.1 31021 - Cool 99 NonForestMgt Openings Mgmt. 31021 - Cool Previous No 38 NF Season Grass Season Grass Inventory

Prescription Forward FTP32-683 addendum for prescribed burn approved in 2013. Forward Out-of-Entry Year FTP W32-848 approved in April of 2015. The goal is to manage these openings for wildlife and to create a partnership with the local agricultural community. The

NonForestMgt, Fruit Tree/Shrub Planting; Pesticide, (Inactive)Skidder/Mechanical; NonForestMgt, Herbaceous/Crop/Grass Planting Treatments: (inactive); Burn, Opening; NonForestMgt, Mowing; NonFo

<u>Acceptable</u> Regen:

**Other** Comment:

Site Condition:

Proposed Start Date: 10/01/2026

32.9 3102 - Grass 99 NonForestMgt Openings Mgmt. 211 - Cropland 32097039.34 Previous No Inventory

Prescription Forward Out-of-Entry Year FTP W32-848 approved in April of 2015. The goal is to manage these openings for wildlife and to create a partnership with the local agricultural community. The work needed will be done with the help of sharecropping, through t Specs:

Pesticide, (Inactive)Skidder/Mechanical; NonForestMgt, Mowing; NonForestMgt, Herbaceous/Crop/Grass Planting (inactive); Next Step Treatments: NonForestMgt, Mowing

<u>Acceptable</u> Regen:

**Other** Comment:

Site Condition:

Proposed Start Date: 10/01/2026

31021 - Cool 32097040-NF 33.3 99 NonForestMgt Openings Mgmt. 211 - Cropland Previous No Season Grass Inventory

Prescription Trim, shelter, fertilize, and/or maintain planted trees/shrubs. Herbicide, plant/replant, fertilize, and/or mow to maintain planted cover crops as Specs: necessary. Monitor health and survival of planted trees/shrubs. Assess success and suitability for longevity

Burn, Opening; ; ; NonForestMgt, Other - Specify; NonForestMgt Next Step Treatments: Other - Specify; NonForestMgt, Other - Specify; No

<u>Acceptable</u> Regen:

Other Percent to Treat = 100%

Comment:

Site Condition:

S t		Gwini	n Mgt. Unit		Repo	rt 3	Treatments		Compartment Year of Entr		DNR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
41	32097041.20 NF	_ 29.6	211 - Cropland	99			NonForestMgt	Openings Mgmt.	211 - Cropland	Previous Inventory	No
Pres Spe	scription cs:										
			/e)Skidder/Mechan ruit Tree/Shrub Pla								ceou
Acc Reg	eptable en:										
Othe Con	<u>er</u> Perce nment:	ent to Treat =	= 100%								
	Condition:										
Prop	oosed Start Dat	<u>te:</u> 10/01/20	026								
42	32097042.24 NF	_ 40.3	211 - Cropland	99			NonForestMgt	Openings Mgmt.	211 - Cropland	Previous Inventory	No
Pres Spe	scription 2016 cs:										
			owing; NonForest /Mechanical; ; No								Pesticide,
Acc Reg	eptable en:										
Othe Con	<u>er</u> Perce nment:	ent to Treat =	= 100%								
Site	Condition:										
Prop	oosed Start Dat	<u>te:</u> 10/01/20	026								
43	32097043.21 NF	32.9	211 - Cropland	99			NonForestMgt	Openings Mgmt.	211 - Cropland	Previous Inventory	No
Pres Spe	scription cs:										
			/e)Skidder/Mechan ruit Tree/Shrub Pla								ceou
Acc Reg	eptable en:										
Othe Con	<u>er</u> Perce nment:	ent to Treat =	= 100%								

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

44 32097044.23\_ 34.3 211 - Cropland 99 NonForestMgt Openings Mgmt. 211 - Cropland Previous No NF Inventory

**Prescription** Specs:

NonForestMgt, Herbaceous/Crop/Grass Planting (inactive); NonForestMgt, Herbaceous/Crop/Grass Planting (inact Treatments: Herbaceous/Crop/Grass Planting (inactive); NonForestMgt, Herbaceous/Crop/Grass Planting (inactive); NonForestMgt, H

<u>Acceptable</u> Regen:

<u>Other</u> Percent to Treat = 100%

Comment:

Site Condition:

t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
57	32097057.36_ Plant	52.1 3	320 - Upland Shrub	99			Planting	Planting (tree species)	320 - Upland Shrub	Previous Inventory	No
Pres Spec		I FTP W32	2-804 approved in 2	013. Pla	nting of	hard and/o	or soft mast tre	es and/or shrubs to	benefit wildlife.		
	: <u>Step</u> Planting <u>tments:</u>	յ, Interplar	nt; Monitoring, Othe	er - Specify	/						
Acce Reg		ment of a p	oortion of the trees/	shrubs pla	nted for	the benef	fit of wildlife spe	ecies.			
Othe Com	er iment:										
Site	Condition:										
Prop	osed Start Date:	10/01/20	026								
58	32097058.12_ Plant	43.9	4130 - Aspen	5	30	Immatu re	Planting	Planting (tree species)	413 - Aspen	Planting Record	No
Pres Spec		ast produc	cing trees and shrub	s for wildl	ife						
	Step Monitor	ing, Other	- Specify								
Acce Reg		ment of a p	portion of the trees/	shrubs pla	nted for	the benef	fit of wildlife spe	ecies.			
Othe Com	er Percent ment:	to Treat =	= 100%								
Site	Condition:										
Prop	osed Start Date:	10/01/20	)26								
401	32097401.10_ Plant	4.6	310 - Herbaceous Openland	99			Planting	Planting (tree species)	3102 - Grass	Previous Inventory	No
Pres Spec		ast produc	cing trees and shrub	s for wildl	ife						
	<u>Step</u> Monitor tments:	ng, Other	- Specify								
Acce Reg		ment of a p	portion of the trees/	shrubs pla	nted for	the benef	fit of wildlife spe	ecies.			
Othe Com	<u>er</u> Percent <u>iment:</u>	to Treat =	= 100%								
Site	Condition:										
Prop	osed Start Date:	10/01/20	026								
402	32097402.27_ Plant	1.2	310 - Herbaceous Openland	99			Planting	Planting (tree species)	3102 - Grass	Previous Inventory	No
Pres Spec		FTP W32	2-804 approved in 2	013. Pla	nting of	hard and/o	or soft mast tre	es and/or shrubs to	benefit wildlife.		
	<u>: Step</u> Planting .tments:	յ, Interplar	nt; Monitoring, Othe	er - Specify	/						
Acce Reg		ment of a բ	portion of the trees/	shrubs pla	nted for	the benef	fit of wildlife spe	ecies.			
Othe Com	er iment:										
Site	Condition:										
Prop	osed Start Date:	10/01/20	)26								

Compartment: 32097

Year of Entry: 2027 t а **Treatment** Stand BA **Treatment Treatment** Cover Type Acres Stand Size Age Habitat n Name CoverType Density Age Range Type Method Objective Structure Cut d 404 32097404.28 1.3 310 - Herbaceous 99 Planting Planting (tree 3102 - Grass Previous No **Plant** Openland species) Inventory Prescription Forward FTP W32-804 approved in 2013. Planting of hard and/or soft mast trees and/or shrubs to benefit wildlife. Specs: Planting, Interplant; Monitoring, Other - Specify Next Step Treatments: Acceptable Recruitment of a portion of the trees/shrubs planted for the benefit of wildlife species. Regen: **Other** Comment: Site Condition: Proposed Start Date: 10/01/2026 405 32097405.26\_ 0.8 310 - Herbaceous **Planting** 3102 - Grass Previous 90 Planting (tree No Openland species) Inventory **Plant** Prescription Forward FTP W32-804 approved in 2013. Planting of hard and/or soft mast trees and/or shrubs to benefit wildlife. Specs: Next Step Planting, Interplant: Monitoring, Other - Specify Treatments: Acceptable Recruitment of a portion of the trees/shrubs planted for the benefit of wildlife species. Regen: <u>Other</u> Comment: Site Condition: Proposed Start Date: 10/01/2026 407 32097407.25 Previous 0.7 310 - Herbaceous 99 Planting Planting (tree 3102 - Grass No **Plant** Openland species) Inventory Prescription Forward FTP W32-804 approved in 2013. Planting of hard and/or soft mast trees and/or shrubs to benefit wildlife. Specs: Next Step Planting, Interplant; Monitoring, Other - Specify **Treatments:** Acceptable Recruitment of a portion of the trees/shrubs planted for the benefit of wildlife species. Regen: **Other** Comment: Site Condition: Proposed Start Date: 10/01/2026 32097408.31\_ 408 247.5 310 - Herbaceous 99 Burn Prescribed Burn 3102 - Grass Previous No Openland Inventory Burn Prescription Au Train Wildlife Area - a unique SGA with over 500 acres of openings & shrublands. Opening management. Burning is necessary to reduce succession that is occurring, reducing the suitability of sharptailed grouse habitat. Burning will enhance habitat and Specs: Burn, Opening; NonForestMgt, Brush Cutting; Monitoring, Other - Specify Next Step **Treatments:** Acceptable Regen: Mechanical treatment may include trees > 4 inch dbh. **Other** 

Site Condition:

Comment:

Proposed Start Date: 10/01/2026

413 32097413.29\_ 48.8 310 - Herbaceous 99 Burn Prescribed Burn 3102 - Grass Previous No Openland Inventory Burn

Prescription Au Train Wildlife Area - a unique SGA with over 500 acres of openings & shrublands. Opening management. Burning is necessary to reduce succession that is occurring, reducing the suitability of sharptailed grouse habitat. Burning will enhance habitat and Specs:

Burn, Opening; NonForestMgt, Brush Cutting; Monitoring, Natural Regen (Intermediate) Next Step

**Treatments:** 

Acceptable Regen:

Mechanical treatment may include trees > 4 inch dbh. **Other** 

Comment:

Site Condition:

S t		Gwin	n Mgt. Unit		Repoi	rt 3	Treatments		Compartme Year of Ent		DNR DNR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut

Total Treatment Acreage Proposed: 1370.7

# Report 4 - Site Conditions

Gwinn Mgt. Unit
Matt Yeo: Examiner

15%

Compartment: 97
Year of Entry: 2027



#### **Availability for Management** Total Acres Acres Avail Acres **Dominant Site Conditions** Available With Condition Not Available 5C 2G 2H 3J 5E Acres 2B Aspen Cedar Cropland Herbaceous Openland **Lowland Conifers** Lowland Shrub Lowland Spruce/Fir Mixed Upland Deciduous Northern Hardwood **Red Pine** Tamarack **Upland Shrub** Water 2,033 1,701 Total Forested Acres

Relative Percent

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

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	25	2F: Too steep	Unspecified	Unspecified	Unspecified
C	omments:						
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	96	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3G: Other influence zones - See comments	3J: Water quality/BMPs (stream, river, or lake)	Unspecified
C	omments:						

84%

2%

# **Report 4 – Site Conditions**

Gwinn Mgt. Unit Matt Yeo: Examiner



3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	36	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: High priority trout s	tream buffer and cold water stre	ams bi	uffer.			
7	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	54	3G: Other influence zones - See comments	2F: Too steep	Unspecified	Unspecified
	Comments: 200 foot Cold water	r stream buffer per Cory Kovacs	and A	udrey Baetz recommendati	on.		
8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
	1/2025 4:20:40 DM   Dag						HEINTZEI MANG

# **Report 4 – Site Conditions**

Gwinn Mgt. Unit Matt Yeo: Examiner



able 3J: Water quality/BMPs (stream, river, or lake)  tream buffer from Conservation Arable 3J: Water quality/BMPs (stream, river, or lake)  d water stream buffer from Conservation Arable 3J: Water quality/BMPs (stream, river, or lake)	ea Review Ap 7 vation area re	Unspecified	Unspecified  Unspecified  r Audrey Baetz recommen  Unspecified	Unspecified  Unspecified  dation.  Unspecified	Unspecified Unspecified
(stream, river, or lake)  tream buffer from Conservation Arable  3J: Water quality/BMPs (stream, river, or lake)  d water stream buffer from Conservation Arable 3J: Water quality/BMPs	ea Review Ap 7 vation area re	pplication  Unspecified  eview application and pe	Unspecified r Audrey Baetz recommen	Unspecified dation.	Unspecified
able 3J: Water quality/BMPs (stream, river, or lake)  d water stream buffer from Conser	7 vation area re	Unspecified eview application and pe	r Audrey Baetz recommen	dation.	
(stream, river, or lake) d water stream buffer from Conser	vation area re	eview application and pe	r Audrey Baetz recommen	dation.	
able 3J: Water quality/BMPs			•		Hanna S. C.
	5	2F: Too steep	Unspecified	Unspecified	l la ana air
					Unspecified
pool in the West (25 foot buffer wi	th selective c	cutting) and then a steep	slope to the east just sout	n of the black spruce stand	ſ.
able 2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
able 5E: Long-Term Retentio	n 8	Unspecified	Unspecified	Unspecified	Unspecified
cluding maple dominated areas and	d areas of he	avy maple regeneration			
			able 5E: Long-Term Retention 8 Unspecified  Cluding maple dominated areas and areas of heavy maple regeneration		

# **Report 4 – Site Conditions**

Gwinn Mgt. Unit Matt Yeo: Examiner



15	Available	2B: Unknown if access through adjacent landowner(s) is possible	12	Unspecified	Unspecified	Unspecified	Unspecified
	comments:	nd will need to be through privat	te prop	erty in the east.			
24	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
(	Comments:						
54	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	12	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments: ligh priority trout st	tream buffer					

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				

Compartment: 97
Year of Entry: 2027

Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed Si	te	General Comments	
1	4119 - Mixed No	orthern Hard	dwoods	Poletimb	er Well	24.5	188	81-110	N/A		OPIC - FMD: Part of area is nice hardwood but has steep hills and a	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	ridge down to creek. Some aspen especially north along creek. Feeder stream southwest. Diffficult to log. High riparian values. Only	
	Sugar Maple	60	Pole/Log	8	188	Sug	gar Maple	Medium	Variable	Variable	about 1/3 of the stand is loggable if access could be had from private	
	Red Maple	5	Pole/Log	8		Ва	lsam Fir	Low	Variable	Variable	land. Mixed hardwood contains minor amounts of cherry, yellow birch, basswood. Softwood is mostly spruce and fir. 2025: Rolling hills to low bottoms, steep terrain, difficult to log like mentioned above.	
	Yellow Birch	5	Log/Pole	10								
	Basswood	15	Pole/Log	8							Mainly an M6 stand, S maple dominant, some basswood, aspen, Y	
(	Quaking Aspen	15	Pole	8							birch, R maple, fir. Good amount of scattered aspen, some large overmature aspen. Some S maple and fir regen. Mainly pole timber throughout, some logs, access into the stand is difficult with terrain, streams, and private property. Areas of more dense fir regen, lots of aspen along southern edge.	
2	4130	- Aspen	S	awtimber	Medium	n 95.8	95	51-80	N/A		OPIC - FMD: Johnson creek splits into two forks and rejoins downstream. This stand is in the center. There is also a spring fed or drainage stream in stand which joins Johnson creek. Not well-stocke mostly due to long-term beaver activity. Some patches of A6 howeve Most aspen mature or overmature but some trees look a little younge and will last for a couple decades yet. Hawthorn and hazel in the understory and some open areas, some areas quite thick and inpenetrable. Grass openings throughout stand. Aspen has some hypoxylin. Some Spruce/fir type along stream where beaver have eliminated all aspen. High riparian values. Difficult and economically unfeasible to log. The small amount of hardwood here is mostly scrul cherry or red maple.2025: Above comments accurate, stand is surrounded by water, unable to get boots on the ground, site conditions in place.	
3	6120 - Lov	wland Ceda	r	Poletimb	er Well	35.5	160	81-110	N/A		OPIC - FMD: Scattered trees not thickly stocked. Mix of F,Q,E types.	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Moxtly Q. Alder in some areas. High riparian values. Big cedar west along creek.2025: Heavy cedar pockets, especially by the creek, lots	
	Yellow Birch	4	Pole	8			lsam Fir	Medium	Variable	Variable	of spruce/fir. Lots of tag alder and spruce/fir in the understory. Trace	
	Balsam Fir	30	Pole	7		Whi	te Spruce	Low	Variable	Variable	amounts of Y birch and B ash (mostly dead), some scattered large	
	White Spruce	15	Log/Pole	10		Ta	ag Alder	High	5 - 10 feet	5 - 10 feet	diameter spruce/cedar. Low wet ground along the creek, some dieback and beaver sign also present.	
Nor	thern White Cedar	50	Log/Pole	10	160						dieback and beaver sign also present.	
	Black Ash	1	Pole/Sapling	g 5								
4	4110 - Sugar M	/laple Assoc	ciation	Poletimb	er Well	17.6	111	81-110	N/A		OPIC - FMD: Thinned under contract #36-97-01 in 1999. Some spar  ¬ areas where the aspen was cut out. Most of the stand has good	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	quality timber and potential. Good regeneration in spots of 6' tall. Also minor amounts of yellow birch in this stand. Some ironwood especiall	
	Sugar Maple	80	Pole/Log	9	111	Ва	lsam Fir	Low	Variable	Variable		
	Basswood	20	Log/Pole	10		Iro	onwood	High	5 - 10 feet	5 - 10 feet		
						Sug	gar Maple	Medium	Variable	Variable	wb,aspen, balsam fir. Lots of doubles and triples.2025: Lots of size class variability within the stand. Areas of good quality well stocked maple pole timber 4-8" some scattered logs. Areas of heavy regeneration pockets, ironwood regen is high, S maple regen is meto high in areas. Trace amounts of cherry, aspen, and P birch. BA variable with the size class distribution and regen pockets, average around 80-100. Possible harvest now or next inventory, lots of regentless are the vergent became logs.	

and lots of poles on the verge of becoming logs.

Compartment: 97 Year of Entry: 2027



Paper Birch 2 Pole/Sapling 5 Quaking Aspen 78 Pole/Sapling 7 40  6 4130 - Aspen Poletimber Well 27.1 26 1-50 N/A  Canopy Species 6 Cover Size Class DBH Age Quaking Aspen 94 Sapling/Pole 4 26 Balsam Fir 6 Sapling/Pole 4 26 Balsam Fir 6 Sapling/Pole 4 26  Balsam Fir 6 Sapling/Pole 4 26  Balsam Fir 6 Sapling/Pole 4 26  Balsam Fir Medium 10 - 20 feet 10 - 20 feet 3" aspen around 2-4 sticks, some larger.  OPIC - FMD: Cut under permit #36-97-01 in 1999. A3 well stocked 1" dbh. A few conifers mostly east. Some beaver activity converting to conifer east F2F1. Mixed hardwood, mostly cherry west mixed with aspen. Some residual hardwood 3" sugar maple and some sugar maple seedling in as well mostly near the hardwood stands. 2015: 1-3" aspen over fir. 2025: Mainly aspen sap/poles, 3-6", some larger, decent fir sap/pole component in the NW. Not before the same way and the proposed in that area as well.  7 4119 - Mixed Northern Hardwoods Poletimber Well 28.1 188 81-110 N/A OPIC - FMD: Johnson creek buffer stand. Some of this stand had aspen removed in a harvest 20 years ago, mostly NW. Steep bank in	Stan	d Level 4 C	over Type	s	ize Density	Acres Stand Age B	A Range	Managed S	ite	General Comments		
Sugar Mapie 14 Pole-Saping 6 Sugar Mapie 15 Pole-Saping 16 Sugar Mapie 16 Pole-Saping 6 Sugar Mapie 16 Pole-Saping 6 Sugar Mapie 17 Sugar Mapie 17 Sugar Mapie 17 Sugar Mapie 18 Sugar Mapie 19 Sugar Map	5	4130	4130 - Aspen Poletimber Well 40.3 40 1-50 N/A		<b>\</b>							
Basswood 6 Pole 7   Paper Birch   Low 201 feet 320 feet 3		Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size			
Paper Birch Quaking Aspen 78 Pole/Sapiling 7 Pole/Sapiling 8 Pole/Sapiling 9 P		Sugar Maple	14	Pole/Sapling	6	Sugar Maple	High	>20 feet	>20 feet			
Paper Brich   2   Policis-Spilling   5   Policis-Spilling   7   20		Basswood	6	Pole	7	Paper Birch	Low	>20 feet	>20 feet	size with lots of S maple saplings. Some scattered larger aspen and S		
Quaking Aspen   78   Pole/Sapling   7   40   quite ready to harvost due to aspen size class and amount of maple regen, ang 6° sizen arrow larger.		Paper Birch	2	Pole/Sapling	5				1			
Figure   F		Quaking Aspen	78	Pole/Sapling	7 40							
Canopy Species												
Canopy Species   Year   Cover   Size Class   Canopy Species   Canopy Spe	6			letimber Well	27.1 26	1-50	N/A	\				
Balsam Fir 6 Sapling/Fole 4 26 Black Cherry Low Variable Variable aspen. Some residual hardwood 3' sugar maple and some sugar maple seeding in as well mostly near the hardwood stands. 2015: 1-3 sepen over fir. 2025: Mainly aspen sap/poles, 3-6', some larger, detecting sapphole component and depent amount of cherryfir regard. Some holder region and scattered hold poles, 1-6' some larger. Some holder region and scattered hold poles, 1-6' some larger some holder region and scattered hold poles, 1-6' some holder region and scattered hold poles, 1-6' some holder region and scattered hold poles, 1-6' some holder region and scattered hold poles, 3-6' some larger. Some holder region and scattered hold poles and the creek, heavier to fir, more love land wet area with intermittent stream. Some holder region and scattered hold poles are are from the creek, heavier to fir, more love land wet area with intermittent stream. Some holder region and scattered hold wet area with intermittent stream. Some holder region and scattered hold wet area with intermittent stream. Some holder region and scattered hold poles are fair to the creek, heavier to fir, more love land wet area with intermittent stream. Some holder region and scattered hold wet area with intermittent stream. Some holder region and scattered holders are are from the creek, heavier to fir, more love land wet area with intermittent stream. Some holders and scattered pole stage from the creek heavier to firm and R. maple as a part of a buffer area from the creek, heavier to firm and R. maple as a part of a buffer area from the creek, heavier to firm and R. maple as a part of a buffer area from the creek, heavier to firm and R. maple as a part of a buffer stand. Some of this stand had an appear in a series of the stand stage and the scattered holders and the scattered holders and the scattered holders and the creek half and an appear in an area from the creek has a make of the same transpar and the scattered holders and the scattered holders and the scattered holders a		Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	conifer east F2F1. Mixed hardwood, mostly cherry west mixed with		
3" aspen over fit 2025: Mainly aspen sapploles, 3-6", some larger, clearly fire gen. Some hadwer egen and scattered hdwd poles, trace amounts of yellow birch and R. maple. East/SE edge is part of a buffer area from the creek, heavier to fir, more low land wet area with intermittent stream, beaver sign present in that area as well.  7 4119 - Mixed Northern Hardwoods Poletimber Well 28.1 188 81-110 N/A  Canopy Species W. Cover Size Class DBH Age Sub-Canopy Species Density Avg. Height Size Paper Birch 2 Pole 7 Red Maple Low Variable Variable Paper Birch 2 Pole 7 Red Maple Low Variable Variable Ironwood 5 Pole 6 Balsam Fir Medium Variable Variable Ironwood 5 Pole 6 Balsam Fir Medium Variable Variable Variable Ironwood 5 Pole 6 Balsam Fir Medium Variable Variable Ironwood 5 Pole 6 Balsam Fir Medium Variable Variable Ironwood 7 Species W. Cover Size Class DBH Age Sub-Canopy Species Density Avg. Height Size Paper Birch 3 Pole/Sapling 6 37 Balsam Fir Low Variable Variable Variable Variable Ironwood 5 Pole 6 Sub-Canopy Species Density Avg. Height Size Species W. Cover Size Class DBH Age Sub-Canopy Species Density Avg. Height Size Paper Birch 3 Pole/Sapling 6 37 Balsam Fir Low Variable Variable Variable Size Paper Birch 3 Pole/Sapling 6 37 Balsam Fir Low Variable Variable Variable Variable Size Paper Birch 3 Pole/Sapling 6 37 Balsam Fir Low Variable Variable Variable Variable Size Paper Birch 3 Pole/Sapling 6 37 Balsam Fir Low Variable Va		Quaking Aspen	94	Sapling/Pole	4 26	Black Cherry	Low	Variable	Variable	aspen. Some residual hardwood 3" sugar maple and some sugar		
decent fir sap/pole component and decent amount of cherryffr regen and scattered hdwd poles, trace amounts of yellow birch and R. maple. East/SE edge is part of a buffer area from the creek, heavier to fir, more low land wet area with intermittent stream, beaver sign present in that area as well.  7 4119 - Mixed Northern Hardwoods Poletimber Well 28.1 188 81-110 N/A  Canopy Species % Cover Size Class DBH Age Sub-Canopy Species Density Avg. Height Size Sugar Maple 63 Pole/Log 8 188 Ironwood Low Variable Variable Paper Birch 2 Pole 10 Sugar Maple Low Variable Variable Paper Birch 2 Pole 6 Sub-Canopy Species Balsam Fir Medium Variable Variable Variable Variable Paper Birch 3 Pole/Sapling 6 Sub-Canopy Species Density Avg. Height Size Sugar Maple Sub-Ca		Balsam Fir	6	Sapling/Pole	4	Balsam Fir	Medium	10 - 20 feet	10 - 20 feet			
Canopy Species % Cover Size Class DBH Age Sugar Maple   63 Pole/Log   8   188										birch and R. maple. East/SE edge is part of a buffer area from the creek, heavier to fir, more low land wet area with intermittent stream, beaver sign present in that area as well.		
Sugar Maple 63 PolefLog 8 188 Red Maple 15 Log/Pole 10 Paper Birch 2 Pole 6 Pole 6 Balsam Fir 15 Pole 6 Balsam Fir 15 Pole 6 Pol	7	4119 - Mixed No				28.1 188	81-110					
Red Maple 15 Log/Pole 10 Red Maple Low Variable Variable Variable Variable Ironwood and sugar 1" in some spots. Bottom near creek has a mix of green ash and maple plus a few cedar and other softwoods. Near creek more black ash and big cedar. This stand due to it's steepness and proximity to Johnson creek is in biodiversity stewardship to protect the riparian values. 2025: Mainly fir and S maple ploes, some R maple logs. Stand follows a ridge high spot with a steep downhill slope to the creek bottom. Few scattered overmature aspen, trace amounts of aspen, cherry, Y birch, W spruce. Some dieback in the stand, lots of fallen down dead fit trees, tag alder also present near creek edge. Scattered pockets of ironwood present to. Mainly a M6 stand with scattered fir/ironwood, site conditioned due to steep slopes and proximity to creek.  8 4130 - Aspen Poletimber Well 5.4 37 51-80 N/A Stand with scattered fir/ironwood, site conditioned due to steep slopes and proximity to creek.  8 4130 - Aspen Poletimber Well 5.4 37 51-80 N/A Sub-Canopy Species Paper Birch 3 Pole/Sapling 6 Sugar Maple Medium >20 feet >20 feet Sugar Maple Sugar Maple Sugar Maple Sugar Maple Sugar Maple Sub-Canopy Species Density Avg. Height Size Blasam Fir 1 Pole Sapling 5 Sub-Canopy Species Density Avg. Height Size Sugar Maple Sub-Canopy Species Sugar Maple Sub-Canopy Species Density Avg. Height Size Sugar Maple Sub-Canopy Species Sugar Maple Sub-Canopy Species Sub-Canopy Species Density Avg. Height Size Sugar Maple Sub-Canopy Species Sugar Maple Sub-Canopy Species Sub-Canopy Species Sub-Canopy Species Sub-Canopy Species Sub-Canopy Species Sub-Canopy Species Sub-Cano		Canopy Species		Size Class		Sub-Canopy Species	Density	Avg. Height	Size	most spots down to river. Good quality hardwood but sprout clumps of		
Paper Birch 2 Pole 7 Balsam Fir 15 Pole 6 Ironwood 5 Pole 6  Balsam Fir Medium Variable Variable Variable Variable Variable Variable Variable variable protect the riparian values 2025: Mainly fir and 5 maple poles, some R maple logs. Stand follows a ridge high spot with a steep downhill slope to the creek bottom. Few scattered overmature aspen, trace amounts of aspen, cherry, Y birch, W spruce. Some deleaked in the stand, lots of fallen down dead fir trees, tag alder also present near creek edge. Scattered pockets of ironwood, site conditioned due to steep slopes and proximity to creek.  8 4130 - Aspen Poletimber Well 5.4 37 51-80 N/A  Canopy Species % Cover Size Class DBH Age Quaking Aspen 91 Pole/Sapling 6 Sugar Maple Medium > 20 feet > 20 feet Sugar Maple Sub-Canopy Species Density Avg. Height Size Sugar Maple Sub-Canopy Species Density Avg. Height Size Sugar Maple 1 Pole/Sapling 5 Sub-Canopy Species Density Avg. Height Size Sugar Maple 1 Pole Sapling 5 Sub-Canopy Species Density Avg. Height Size Sugar Maple 1 Pole/Sapling 5 Sub-Canopy Species Density Avg. Height Size Sugar Maple 1 Pole/Sapling 5 Sub-Canopy Species Density Avg. Height Size Sugar Maple 1 Pole Sapling 5 Sub-Canopy Species Density Avg. Height Size Sugar Maple 1 Pole Sapling 5 Sub-Canopy Species Density Avg. Height Size Sugar Maple 1 Pole Sapling 7 37 Sugar Maple 5 Sub-Canopy Species Density Avg. Height Size Sugar Maple 1 Pole Sapling 7 37 Sugar Maple 5 Sub-Canopy Species Density Avg. Height Size Sugar Maple 5 Sub-Canopy Species Density Avg. Height Size Sugar Maple 5 Sub-Canopy Species Density Avg. Height Size Sugar Maple 5 Sub-Canopy Species Density Sugar Maple 5 Sub-Canopy Species Density Sugar Maple 5 Sub-Canopy Species Density Sugar Maple 5 Sub-Canopy Species Sugar Maple 5 Sub-Canopy Species Density Sugar Supar			63	Pole/Log		Ironwood	Low	Variable	Variable			
Balsam Fir 15 Pole 6 Ironwood 5 Pole 6 Ironwood 6 Pole 6 Ironwood 5 Pole 6 Ironwood 6 Pole 6 Ironwood 8 Ironwood 9 Iron		Red Maple	15	Log/Pole	10	Sugar Maple	Low	Variable	Variable			
Balsam Fir 15 Pole 6   Balsam Fir Medium Variable   Variable   Variable   Ironwood 5 Pole 6		Paper Birch	2	Pole	7	Red Maple	Low	Variable	Variable			
R maple logs. Stand follows a ridge high spot with a steep downhill slope to the creek bottom. Few scattered overmature aspen, trace amounts of aspen, cherry, Y birch, W spruce. Some dieback in the stand, lots of fallen down dead fir trees, tag alder also present near creek edge. Scattered pockets of ironwood present to Alamity a M6 stand with scattered fir/ironwood, site conditioned due to steep slopes and proximity to creek.    8		Balsam Fir	15	Pole	6	Balsam Fir	Medium	Variable	Variable	and proximity to Johnson creek is in biodiversity stewardship to		
slope to the creek bottom. Few scattered overmature aspen, trace amounts of aspen, cherry, Y birch, W spruce. Some dieback in the stand, lots of fallen down dead fir trees, tag alder also present near creek edge. Scattered pockets of ironwood present to. Mainly a M6 stand with scattered fir/ironwood, site conditioned due to steep slopes and proximity to creek.    Sub-Canopy Species   Y Cover   Size Class   DBH Age   Sub-Canopy Species   Density   Avg. Height   Size   Sugar Maple   1   Pole   8   Balsam Fir   Low   Variable   Variable		Ironwood	5	Pole	6							
Canopy Species % Cover Size Class DBH Age Paper Birch 3 Pole/Sapling 6 Sugar Maple Salsam Fir 3 Pole/Sapling 5 Black Cherry Size Class DBH Age Sugar Maple 1 Pole 8 Sugar Maple 5 Balsam Fir Low Variable Variable Sugar Maple 5 Balsam Fir Low Variable Variable Sugar Maple 5 Balsam Fir Low Variable Variable Sugar Maple 6 37 Avg. Height Size Density Avg. Height Size Sugar Maple 5 Sugar Maple 6 37 Avg. Height Size Updated to non-OI cover type. 2025: A6, mainly 4-8" aspen poles, some larger, 2-4 stick aspen. Lots of maple regen older residual hardwood 6"dbh. Scattered sp/fir some larger. Some older residual hardwood 6"dbh. Scattered sp/fir some larger. Some older residual hardwood 6"dbh. Scattered sp/fir 2". 2015-converting to sugar mapleaspen falling out of the stand.2025: Accurate above comments. Trace amounts of cherry, spruce, birch, ironwood, elm. May spanyloe 6-7 avg aspen, some scattered larger aspen and fir, few S maple poles low fir regen and very high S maple regen										amounts of aspen, cherry, Y birch, W spruce. Some dieback in the stand, lots of fallen down dead fir trees, tag alder also present near creek edge. Scattered pockets of ironwood present to. Mainly a M6 stand with scattered fir/ironwood, site conditioned due to steep slopes		
Canopy Species % Cover Size Class DBH Age Paper Birch 3 Pole/Sapling 6 Sugar Maple Sugar Sugar Maple Sugar Maple Sugar Maple Sugar Maple Sugar Sugar Maple Sugar Sugar Maple Sugar S	8	4130	- Aspen	Po	letimber Well	5.4 37	51-80	N/A	١			
Paper Birch 3 Pole/Sapling 6 Quaking Aspen 91 Pole/Sapling 6 37 Balsam Fir 3 Pole/Sapling 5 Black Cherry 3 Pole/Sapling 7 37 Bugar Maple Full Variable Variable Variable Variable Variable Variable Pole/Sapling 7 37 Bugar Maple Full Variable Variable Variable Pole/Sapling 7 37 Bugar Maple Full Variable Variable Variable Pole/Sapling 7 37 Bugar Maple Full Variable Variable Variable Pole/Sapling 7 37 Bugar Maple Full Variable Pole/Sapling 8 37 Bugar Maple Full Variable Pole/Sapling 9 37 Bugar Maple Full Variable Pole/Sapling 9 37 Bugar Maple Full Variable Pole/S			% Cover				Density		Size			
Balsam Fir 3 Pole/Sapling 5 Black Cherry 3 Pole/Sapling 5  Canopy Species % Cover Size Class DBH Age Sugar Maple 1 Pole 8 Balsam Fir Low Variable Variable Quaking Aspen 94 Pole/Sapling 7 37  Sugar Maple Full Variable Variable Variable Sugar Maple Full Variable Variable Sugar Maple Full Variable Variable Sugar Maple Sugar Maple Full Variable Variable Sugar Maple Su		Paper Birch	3	Pole/Sapling		Sugar Maple	Medium	>20 feet	>20 feet	some larger, 2-4 stick aspen. Lots of maple regen, some scattered		
Balsam Fir 3 Pole/Sapling 5 Black Cherry 3 Pole/Sapling 5  9 4130 - Aspen Poletimber Well 100.8 37 1-50 N/A OPIC - FMD: A4 almost A6 well-stocked 4" dbh, some larger. Some older residual hardwood 6" dbh. Scatterd sp/fir 2". 2015-converting to sugar Maple Sugar Maple Deley Sapling 7 37  Quaking Aspen 94 Pole/Sapling 7 37  Balsam Fir Low Variable Variable Variable Opic FMD: A4 almost A6 well-stocked 4" dbh, some larger. Some older residual hardwood 6" dbh. Scatterd sp/fir 2". 2015-converting to sugar mapleaspen falling out of the stand.2025: Accurate above comments. Trace a mounts of cherry, spruce, birch, ironwood, elm. Mainly sap/pole 6-7"avg aspen, some scattered larger aspen and fir, few S maple poles low fir regen and very high S maple regen.		Quaking Aspen	91	Pole/Sapling	6 37	Balsam Fir	Low	Variable	Variable			
9 4130 - Aspen Poletimber Well 100.8 37 1-50 N/A OPIC - FMD: A4 almost A6 well-stocked 4" dbh, some larger. Some older residual hardwood 6" dbh. Scatterd sp/fir 2". 2015-converting to sugar Maple Deley Sugar Maple Pole Sapling 7 37 Sugar Maple Full Variable Variable Variable Sugar Maple New Sugar Maple Sugar Maple Sugar Maple Variable Variable Sugar Maple Sugar Maple Sugar Maple Sugar Maple Variable Variable Sugar Maple Sugar Maple Sugar Maple Sugar Maple Sugar Maple Variable Sugar Maple Sugar		Balsam Fir	3	Pole/Sapling	5					- Aspen looks healthy, lots of trees at or around pole size.		
Canopy Species % Cover Size Class DBH Age Sugar Maple Sugar Maple Quaking Aspen 94 Pole/Sapling 7 37 Sugar Maple Full Variable Sub-Canopy Species Density Avg. Height Size Sugar Maple Variable		Black Cherry	3	Pole/Sapling	5							
Sugar Maple 1 Pole 8 Balsam Fir Low Variable Variable Campy Species Density Avg. Height Size Sugar mapleaspen falling out of the stand 2025: Accurate above comments. Trace amounts of cherry, spruce, birch, ironwood, elm.  Quaking Aspen 94 Pole/Sapling 7 37 Sugar Maple Full Variable Variable Mainly sap/pole 6-7"avg aspen, some scattered larger aspen and fir, few S maple poles low fir regen and very high S maple regen	9	4130	- Aspen	Po	letimber Well	100.8 37	1-50	N/A	1			
Sugar Maple 1 Pole 8 Balsam Fir Low Variable variable comments. Trace amounts of cherry, spruce, birch, ironwood, elm.  Quaking Aspen 94 Pole/Sapling 7 37 Sugar Maple Full Variable Variable Variable few S maple poles low fir regen and very high S maple regen		Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size			
Quaking Aspen 94 Pole/Sapling 7 37 Sugar Maple Full Variable Variable Mainly sap/pole 6-7"avg aspen, some scattered larger aspen and fir, few S maple poles low fir regen and very high S maple regen		Sugar Maple	1	Pole	8	Balsam Fir	Low	Variable	Variable	comments. Trace amounts of cherry, spruce, birch, ironwood, elm.		
Balsam Fir 5 Pole 8 Black Cherry Low Variable Variable few S maple poles, low fir regen and very high S maple regen.		Quaking Aspen	94	Pole/Sapling	7 37	Sugar Maple	Full	Variable	Variable			
		Balsam Fir	5	Pole	8	Black Cherry	Low	Variable	Variable	rew 5 maple poles, low fir regen and very high S maple regen.		



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed Si	te	General Comments			
10	4116 - Mixed N.	Hardwood	- Aspen	Poletimb	er Well	44.6	188	81-110	N/A		OPIC - FMD: Cut in 1988. Thinned plus elm salvage left low BA area then. Some areas could do a light thinning but most of stand, over 3/			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	<ul> <li>¬ then. Some areas could do a light thinning but most of stand, over 3/4</li> <li>BA below 100. M3 2" dbh throughout stand and 2 stick in gaps, mostly</li> </ul>			
	Sugar Maple	45	Log/Pole	12	188	Bal	sam Fir	Low	5 - 10 feet	5 - 10 feet	sugar maple. Most hardwoods still crown room. Good potential. Some			
	Red Maple	15	Pole/Log	8		Sug	ar Maple	Medium	Variable	Variable	steep slopes especially NE. Ironwood, red maple, and aspen are mos			
	Yellow Birch	5	Log/Pole	14		Iro	nwood	Low	Variable	Variable	of the rest of the hardwood species here. Some softwood. 2015-stand contains large vernal pond. 2025: East finger has steep hill where			
	Basswood	15	Log	14					1		operability would be tough. Good amount of R maple and aspen nea			
11	Quaking Aspen	20	Pole/Log	9 Noi	ne	1.1			No		east edge, next to a recent aspen clearcut. Aspen mix throughout the stand, especially around the stand edges as the stand is surrounded by aspen stands. Species mix of aspen, S maple, basswood, Y birch, ironwood, few scattered R maple. S maple is pole/log size, crowns are small and pretty spaced out, little to no crowding in areas, scattered large overmature aspen present to. Some areas are heavier to pole timber, some logs, good amount of maple clumps. Low wet vernal pond area in the middle north of the stand that is site conditioned. Trace amounts of P birch, ironwood, cherry, W spruce. North part of the stand by the river has a higher fir component, mainly poletimber dominant. Stand BA averaged around 80-110, not much regeneration 2025: Open water pond surrounded by aspen mainly, some scattered R maple and cherry to.			
11	300 -	- vvalei		INOI	ie	1.1			NO					
12	6122 - BI	ack Spruce	<b>;</b>	Poletimb	er Well	2.5	70	51-80	N/A		OPIC - FMD: S3 and up to 3-Stick spruce. Small pothole bog. vernal			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	swale connects this with bog east.2025: Spruce sap/pole, 2-3 sticks in spots, lots of saplings on the verge of becoming poles 4-8" avg			
	Black Spruce	100	Pole/Saplin	g 6	70	Та	g Alder	Low	Variable	Variable	range. Trace amounts of red maple, fir, Y birch, W pine, and tag alde			
						Blac	k Spruce	High	Variable	Variable	regen species. Leatherleaf visible on ground floor. Some scattered more open canopy areas with standing dead trees.			
13		wland Ceda		Poletimb		3.7		111-140	N/A		OPIC - FMD: Flooded stand. Beaver sign but not present now.  Scattered trees. Lowland brush in most areas.2025: Dense cedar			
	Canopy Species		Size Class		Age		nopy Species	Density	Avg. Height	Size	stand, mix of poles/logs, appears healthy. Trace amounts of R maple			
No	rthern White Cedar	100	Pole/Log	9	106		sam Fir	Low	Variable	Variable	fir/spruce, B ash, and tag alder. Some open canopy areas, lowland			
							ack Ash	Low	Variable	Variable	edge horders up to a stream, heavy to tag alder and more open			
						Та	g Alder	Low	5 - 10 feet	5 - 10 feet				
14	4134 - Aspe	en, Spruce/	Fir	Sapling	y Well	56.9	6		N/A		Cut 2019. Sale #32-32-18 Big Burger Aspen, cut all trees which meet			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	minimum piece specifications in 2.2 Utilization, except do not cut black cherry and cedar .OPIC - FMD: A6 3-4 stick average.			
	Sugar Maple	5	Sapling/Pol	е 3		Ame	rican Elm	Low	Variable	Variable	Patches of fir 1-2 stick. Scattered balsam poplar, elm, cherry. Most stand has 1-2"dbh sugar maple understory. 2015-Very high site quality trillium, may apple cohosh. Lots of aspen going down, let			
	Quaking Aspen	70	Sapling	1	6	Blac	k Cherry	Low	Variable	Variable				
	Balsam Fir	20	Sapling	1		Whit	e Spruce	Low	Variable	Variable				
	Black Cherry	5	Sapling/Pol	e 4		Sug	ar Maple	Medium	Variable	Variable	mainly aspen saplings, some cherry and S maple 2-3" left in overstor			
											from previous harvest, some of the cherry is pole size. Also scattered spruce/fir.			

Sapling/Pole

Sapling/Pole

20

3

3

American Elm

Balsam Fir

# Report 7 - Stands

Compartment: 97

Northwest portion of stand has impeded drainage and has poison ivy

and red-osier dogwood as the understory. 2025: Above comments accurate. Aspen is regenerating ok in the area that was cut, few S maple sap/pole, some cherry sap/pole scattered, trace amounts of spruce/fir. Lots of the area is open with low stocking. Mainly aspen saplings with some scattered mixed in maple and cherry saplings. Some larger scattered pole timber but overall sapling size class. Can see evidence of poor regeneration in the NW portion of stand where



											Year of Entry: 2027		
Stan	d Level 4 C	Level 4 Cover Type Size Density		nsity	Acres Stan	d Age B	A Range	Managed S	Site	General Comments			
15	320 - Սբ	pland Shrub	)	Noi	ne						2019 - Burned with adjacent stand (40).Brush was mechanically		
						Sub-Canopy	Species	Density	Avg. Height	Size	removed in preparation for burning during August of 2017.Stand was burned on September 9, 2011.OPIC - FMD: Cherry and maple		
						Sugar Ma	ple	Low	Variable	Variable	brush coming in. Cut 1990 to provide larger area of young forest or		
						Black Che	erry	Low	Variable	Variable	opening for wildlife. Some sparse areas but mostly well-stocked.  Some trees up to 4" dbh, but mostly 10' tall. 2025: Accurate above		
											comments. Hilly area that separates the two openings on each side of the stand. Mainly brush and some clumps of trees, cherry more consistent throughout, maple scattered in clumps, Trace amounts of fir in the south. Trees are mainly all saplings <1", very few 3-4" trees.		
16	4110 - Sugar I	Maple Asso	ciation F	Poletimb	er Well	90.2 1	11	81-110	N/A	4	OPIC - FMD: Thinned 1987. Thinned 2009 permit #31-07-01 premier logging. Steep hills in stand especially NW so those will not be		
	Canopy Species	% Cover	Size Class	DBF	l Age	Sub-Canopy S	Species	Density	Avg. Height	Size	marked. Stand will be reduced to about 80-90 sq ft BA leaving trees of		
	Sugar Maple	74	Log/Pole	12	111	Balsam F	Fir	Low	5 - 10 feet	5 - 10 feet	all sizes but emphasizing opening up the good quality crop trees. At		
	Yellow Birch	2	Log/Pole	14		Black Che	erry	Low	Variable	Variable	least 2 wildlife trees per acre will be left. All cedar and white pine will left. Underplant hemlock to increase diversity post harvest by wildlife		
	Basswood	20	Log/Pole	14		Sugar Ma	ple	Medium	Variable	Variable	division.2025: Trees appear healthy, growing well, crowns appear to		
	Black Cherry	4	Log/Pole	12		Wild Red Ras	spberry	Low	5 - 10 feet	5 - 10 feet	have good amounts of space, fairly open canopy. Some topography ir		
						Ironwoo	od	Medium	Variable	Variable	the NW finger of this stand and the SE stand edge, somewhat steep ridges. S maple dominated stand with a good portion of basswood and		
											some scattered cherry and Y birch. Trace amounts of ironwood, fir, R maple, and aspen. Fir pockets and traces of aspen near stand edges. Areas of more open regen pockets scattered throughout. BA spins consistently averaging around 100-110, areas of variability, some scattered sapling heavy areas mixed in and a good layer of seedlings.		
17		- Aspen		Sapling I			6		N/A		Stand was heavily defoliated 1-2 years ago and showing some stress.  Natural aspen with tamarack planted in the open areas. A recent		
	Canopy Species	% Cover			Age	Sub-Canopy S	•	Density	Avg. Height	Size	purchase from Plum Creek. Stand located within AuTrain Waterfowl		
	Quaking Aspen	45	Sapling/Pole		6	Black Che		Medium	Variable	Variable	Refuge. Weyerhauser purchased Plum Creek in 2016. The timber rights stay with Weyerhauser for five years from date of purchase,		
	Bigtooth Aspen	30	Sapling/Pole			Sugar Ma		Medium	Variable	Variable	which was September 2014. Timber rights expire September 2019.		
1	Balsam Fir	5	Sapling/Pole	3		American I	⊢lm	low	10 - 20 feet	10 - 20 feet			

Low

Low

10 - 20 feet

Variable

10 - 20 feet

Variable

Balsam Fir

Black Cherry

the impeded drainage was.

Sawtimber Medium

92.5

#### Report 7 - Stands

51-80

Compartment: 97 Year of Entry: 2027



Stand Level 4 Cover Type Size Density Acres Stand Age BA Range Managed Site General C	omments
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111

10					
Canopy Species 9	% Cover	Size Class	DBH	Age	
Sugar Maple	20	Log/Pole	10		
Red Maple	40	Log/Pole	12	111	
Yellow Birch	5	Log/Pole	12		
Basswood	5	Log/Pole	12		
Quaking Aspen	20	Pole	8		
Balsam Fir	5	Pole	9		_
Black Cherry	5	Pole	8		

4116 - Mixed N. Hardwood - Aspen

12

ŀ	Sub-Canopy Species	Density	Avg. Height	Size
	Balsam Fir	Low	Variable	Variable
	Ironwood	Medium	Variable	Variable
Ī	Black Cherry	Low	Variable	Variable
	Sugar Maple	Medium	Variable	Variable
	Red Maple	Low	Variable	Variable

Density

Medium

N/A

N/A

Avg. Height

Variable

Variable

Variable

Variable

Size

Variable

Variable

Variable

Variable

Planted 123 red oak and 142 burr oak in various stands within this ftp in 2014. May want to plant more oaks or fruit-bearing trees/shrubs in future years. 2015 - planted 100 red/burr oak along edge with Stand 413.OPIC - FMD: M5M2F1. Semi-open areas throughout stand. Some fully stocked areas but smaller trees on average. Former open areas seeding in. Possible to clearcut and manage for aspen in 20 years. Aspen is 4 stick and larger in spots. Hardwood is 2-3 stick and poor timber quality generally. Mostly red maple and some poor quality cherry. Some areas more pure aspen. If cut now too much poor quality residual small hardwood would be left. Recommend manage stand for aspen but check in 10-20 years. 2015 old opening that has converted to hardwoods. Also some fir in clumps and scattered.2025: Trace amounts of spruce/fir. some topography/ridges in the north of the stand. Y birch pole/log present, W spruce log trace amounts. Open areas with lots of regen throughout, west/NW edge has a higher S maple/basswood/Y birch component. Mainly R maple log/pole with scattered aspen, cherry. Y birch, basswood, S maple, spruce/fir. Canopy is somewhat open, scattered openings throughout, variable stocking, scattered larger trees and scattered regen dense areas. BA spins averaged around 70.

19	4134 - Asp	en, Spruce	'Fir	Sapling	y Well	40.1	6	Immature
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Can	opy Specie	s Density
	Sugar Maple	11	Sapling	1		Black	Cherry	Mediun
	Red Maple	8	Sapling	1		Iror	nwood	Low
	Quaking Aspen	45	Sapling	1	6	Suga	r Maple	Low
	Balsam Fir	5	Sapling	1		Red	Maple	Low
	White Spruce	16	Sapling	1				
	White Pine	5	Log/XLog	16				
	Black Cherry	10	Pole/Log	9				

2019 PH: Refuge aspen #32-017-172015 - planted 25 red/burr oak in small opening within this stand.OPIC - FMD: A bit more wellstocked than stand west but still not completely stocked. Semi-open areas. Mostly 3-5 stick aspen. Young yet and not good quality aspen. Some hypoxylin. Some w. pine and j. pine in stand especially SE. Cut in 10-20 years. 2015- Long ridge. Variable stand, semi open in places, heavily stocked in others. Site quality improves moving north. Much heavier to spruce/fir north. Scattered large hardwood. Stand contains approximately 4 acres of dense northern hardwoods north tip. Very steep, ancient river bank. Possibly select cut when the aspen is cut. Final harvest of aspen retaining large spruce and hardwood.2025: Above comments very accurate. Uncut area is a mix of aspen, cherry, fir, and maple. Aspen is 7"avg sap/pole, cherry is sap/pole 7"avg, some fir poles 8"avg. Southern edge is somewhat open and has a scattered mix of J pine, W pine, aspen, cherry, R maple. North west portion is mainly hdwd M6 on the side of a hill, steeper slope, has S maple, basswood, cherry, trace amounts of aspen, ironwood, R maple. Diverse stand with variable species and size classes, cut area is regenerating well with aspen saplings and some cherry/maple saplings.

Gwinn Mgt. Unit Report 7 – Stands



Stan	d Level 4 C	over Type		Size Density			Acres Stand Age BA Range			te	General Comments		
20	4130	- Aspen		Sawtimb	er Well	65.9	75	51-80	N/A		OPIC - FMD: Need land survey for this stand. This is spotty. Patches of aspen mostly mature esp. east but some areas of smaller and		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	younger aspen. Thick sugar maple regeneration 1-3" dbh throughout		
	Sugar Maple	7	Pole/Log	8		Iro	onwood	Low	>20 feet	>20 feet	so if cut some parts of stand may convert to hardwood. A lot of this		
	American Elm	5	Pole	8		Blac	ck Cherry	High	Variable	Variable	stand is A5 only. Some semi-open areas. If stand cannot be cut, it will hold as aspen. 2015- Large 4-5 stick overmature aspen over dense		
	Quaking Aspen	65	Log	11	75	Sug	ar Maple	High	Variable	Variable	sugar maple saplings. Occasional large ws, elm, basswood. Leeks,		
	Balsam Fir	3	Pole	8							trillium, cohosh. Stand converting to northern hardwoods.2025:		
	White Spruce	5	Log/Pole	10							Above description accurate. Large overmature aspen dominant, some		
	Black Cherry	15	Log/Pole	10							cherry, elm, S maple, spruce/fir. Some patchy more open areas with raspberry in the north part of the stand. More of a maple component in the south of the stand, maple regen is heavy in the south, the SW		
	4116 - Mixed N.	Hardwood	Aanan	Poletimb	or Wall	6.7	95	81-110	N/A		corner of the stand has heavy S maple and cherry pole/log component.  OPIC - FMD: Hillside not too steep in spots. Aspen stand to convert to		
21			'							Oi	$\neg$ hardwood. Access would be good through private but looks unfeasible		
	Canopy Species Sugar Maple	% Cover	Size Class Pole/Log	9	Age 95		nopy Species Isam Fir	<b>Density</b> Medium	Avg. Height  Variable	Size Variable	there due to development. Access through state has wet area with		
	Red Maple	10	Pole/Log	9	93		ar Maple	Low	Variable	Variable	intermittent stream and hillside to contend with. We will defer this stand this entry period and let stand convert to hardwood naturally and		
	Basswood	15	Pole	8	L	Sug	ai iviapie	LOW	variable	variable	revisit for possible partial harvest in 2017. Aspen will decline and		
	Quaking Aspen	30	Pole	9							provide wildlife and other values here.7/19/23: Updated to non-OI		
	Balsam Fir	5	Pole	6							cover type 2025: Basically an M6 stand with a good mix of aspen. Some hills, not too steep, some pockets of heavy regen, mainly pole		
22	4139 - Aspen,	Mixed Deci	duous	Poletimb	er Well	70.7	60	51-80	N/A		aspen present too. Trace amount of fir, cherry, ironwood, P birch. Stand could be treated, access is difficult as mentioned above.  OPIC - FMD: Buffer stand left when stand 14 was cut. Steep hillside		
	Canopy Species		Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	¬ mostly, down to immediately wet ground. Couple acres of flat ground		
	Red Maple	30	Pole/Log	8			Isam Fir	Medium	Variable	Variable	possible to log. High riparian value.2025: Retention/buffer area left when stand 14 was cut. Lowland creek area running thru some of the		
	Quaking Aspen	55	Pole	9	60	Re	d Maple	Low	Variable	Variable	stand that is site conditioned. Traces of alder, ash, and cedar follow		
	Balsam Fir	10	Pole	7	-		· · · · · · · · · · · · · · · · · · ·				the lowland creek area in some spots. Mainly overmature aspen with some red maple, cherry, and fir, trace amounts of spruce. Areas of		
	White Spruce	2	Pole	8							blowdown/dieback with down trees scattered, also areas of heavy fir		
	Black Cherry	3	Pole	7							pockets.		
23	4139 - Aspen,			Saplino		17.7		mmature	N/A		11/20/19 PH: Refuge Aspen #32-0170172015: This stand is merchantible and could cut. Could hold since age is not quite there for		
	Canopy Species		Size Class		l Age		nopy Species	Density	Avg. Height	Size	harvest, but is close. Most aspen is 5 stick but some smaller. Diverse		
	Sugar Maple	40	Sapling/Pole		6		ar Maple	Low	Variable	Variable	areas with heavy hardwood and softwood component. Some sparse areas with smaller trees. Basswood, balsam poplar, and red maple in		
	Quaking Aspen	35	Sapling	1	6		rican Elm	Low	Variable	Variable	stand. Also balsam fir. 2015-final harvest on aspen, retaining cherry,		
	Bigtooth Aspen	6	Sapling	1	6		Isam Fir	Low	Variable	Variable	and most elm.2025: Uncut area of the stand is mainly aspen		
	Balsam Fir	7	Sapling/Pole				te Spruce	Low	Variable	Variable	sap/pole 6"avg, some cherry/ fir sap/pole, aspen is mainly 1-3 sticks.  Cut area is mainly aspen and S maple saplings, some overstory		
	White Spruce Black Cherry	5 7	Sapling/Pole Pole/Sapling			Blac	ck Cherry	Low	Variable	Variable	maple pole/log, cherry poles, elm pole, and spruce/fir left as residual		
24	•	- Water	. 5.5, 5 4 5 1116	No	ne	1.4			No		species. Some open canopy less stocked areas.  2025: Open water pond area, scattered willow, aspen, R maple, P		
24	300	ou - vvaler	ouu - water	500 - vvaler Non	. <b>-</b>		nopy Species	Density	Avg. Height	Size	birch, cherry, spruce/fir.		
							oing Willow	Medium	>20 feet	>20 feet	-		
						vveep	ing willow	iviedium	>20 leet	>20 leet			



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	iite	General Comments						
25	42110 - Pla	anted Red P	ine I	Poletimb	er Well	5.2	48	111-140	N/A	Λ.	OPIC - FMD: Mostly 3-5 stick red pine plantation. Thinned 2009 by ro						
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	nelson permit #33-07-01 Some porcupine damage. Some cherry in stand will be left for diversity. 5-6 stick poles.2025: Red pine log						
	Red Pine	96	Log	12	48	Wild Re	d Raspberry	High	5 - 10 feet	5 - 10 feet	stand, appears healthy, lots of cherry saplings underneath, few cherry						
	Black Cherry	4	Log/Pole	10		Irc	nwood	Medium	Variable	Variable	poles/logs. Thinned in 2009. Diameter ranges from 8-16", majority						
						Black Cherry		High	High Variable		around 10-14". Scattered open canopy spots, especially in the west half, lots of cherry regen. Trace amounts of S maple sap/pole and ironwood. BA spins consistently in the 110-140 range.						
26	4139 - Aspen,	139 - Aspen, Mixed Deciduous			139 - Aspen, Mixed Deciduous			Aspen, Mixed Deciduous Sapl		Sapling Well		16.1	6	51-80	N/A		11/30/19 PH: Refuge Aspen #32-017-172015: Mostly 3-5 stick
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	young aspen. 1" dbh sugar maple understory. Cherry,sugar maple, ironwood,elm mixed in. Diverse stand tending towards hardwood.						
	Sugar Maple	15	Pole/Sap/Log	g 6	6	Sug	ar Maple	Medium	Variable	Variable	2015-trillium, may apple. 2025: Cut in 2019, cut area is mainly 1"						
	American Elm	10	Pole	8		Irc	nwood	Medium	Variable	Variable	aspen with mixed in S maple sap/pole/log, cherry sap/pole, elm pole						
	Basswood	2	Pole/Log	8							□ basswood pole, ironwood sap/pole. North area of stand has the highest presence of residual overstory trees. Some topo, minor						
	Quaking Aspen	40	Sapling	1	6						hills/slope. Scattered more open canopy areas and pockets of raspberry, trace amounts of R maple and fir. Uncut area mainly the						
	Bigtooth Aspen	6	Sapling	1	6												
	Black Cherry	20	Log/Pole	10							southern tip of the stand, mix of aspen and maple poles.						
	Ironwood	7	Pole/Sapling	g 7													
27	4139 - Aspen,	Mixed Deci	duous F	Poletimb	er Poor	61.1	45	1-50	N/A	\	2015 - Planted 30 red/burr oak along SE edge along plow line for						
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	adjacent prescribed burn.OPIC - FMD: Sparse in areas. Grass areas filling in over the years. Most area trees 3-4 stick, some la						
	American Elm	10	Pole/Log	8		Sug	ar Maple	Low	Variable	Variable	Poor quality aspen showing hypoxylen. Some white pine, fir, cherry,						
	Red Maple	10	Log/Pole	10		Re	d Maple	Low	Variable	Variable	ironwood, and red maple in stand. 2015-A4U2025: Decently						
	Basswood	5	Log/Pole	10		Bal	sam Fir	Low	5 - 10 feet	5 - 10 feet	accurate above description. Aspen log presence more in SE corner stand, some topography, hill with some slope also in the SE part of						
	Quaking Aspen	50	Pole/Log	9	45	Irc	nwood	High	Variable	Variable	the stand. Trace amounts of S maple and B fir. Canopy is very open						
	White Spruce	5	Log/Pole	12		Wh	ite Pine	Low	5 - 10 feet	5 - 10 feet	throughout the stand, areas of open grass and cherry shrub.						
	White Pine	5	Log/XLog	14		Blac	k Cherry	High	Variable	Variable	Scattered regen pockets throughout, some scattered large W pine, pockets of heavy ironwood regen. Size and stocking variable						
	Black Cherry	15	Pole/Sap/Log	g 8							throughout, overstory log trees scattered throughout open areas and						
											areas of heavy regen. Mainly aspen dominant, lots of scattered cher throughout, sap/pole, few log, mainly pole and sap sizes of trees throughout. Basically an old opening that is filling in with trees.						
28	4130	- Aspen		Sapling	Well	36.6	6 I	Immature	N/A	\	11/30/19 PH: Refuge Aspen #32-017-172015: 2-3 stick aspen.  ¬ Hypoxylen in most areas. Thick M3 in most areas red maple with						
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	some sugar. Aspen not good quality. Some of stand is hillside(ancie						
	Sugar Maple	5	Pole/Sapling	g 5		Blac	k Cherry	High	Variable	Variable	riverbank) and is younger aspen by about 10 years. 2015- 3-5' aspe						
	Red Maple	3	Sapling	1		Bal	sam Fir	Low	Variable	Variable	of 2 size classes11" and up and 6-8"2025: Part of stand cut in						
	Quaking Aspen	80	Sapling	1	6	Sug	ar Maple	Low	Variable	Variable	2019, the cut area is now mainly aspen sap 1" with some maple sap/poles and cherry sap/poles, few scattered fir. The cut area had						
	Balsam Fir	2	Sapling	1		Re	d Maple	Medium	Variable	Variable	some residual pole cherry, aspen, elm, R maple, fir/spruce. The unc						
	Black Cherry	10	Pole/Sapling	g 5							retention area is composed of mainly pole/sap aspen 6" avg, a go bit of pole/sap cherry 7" avg, and R maple sap/pole 6" avg. Rege uncut area is R maple sap med, Cherry sap low. Some larger 8-1 aspen/cherry and trace amounts of fir, elm, W pine, W spruce. As in uncut area is mainly 2-3 sticks, some 4. The SW portion of the						
											stand is a steeper hillside with sap/pole of R and S maple, cherry, a ironwood with some fir/cherry regen. The stand does have some						

scattered more open areas.

ironwood with some fir/cherry regen. The stand does have some



Stand	d Level 4 C	over Type	s	ize Dens	sity	Acres	Stand Age B	A Range	Managed S	Site	General Comments			
29	4130	- Aspen	S	Sapling F	oor	10.1	30 I	mmature	N/A	4	2015 - planted 20 burr/red oak in open area, se portion of this stand.			
	Canopy Species	% Cover	Size Class	DBH A	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Rocky soils.OPIC - FMD: This areas is coming into aspen from former open. Some of stand is scattered cherry. More well-stocked			
	Quaking Aspen	75	Pole/Sapling	6	30	Blad	ck Cherry	High	Variable	Variable	aspen east and more scattered cherry or upland brush west. 2015:			
	Black Cherry	25	Pole/Sapling	6		Ва	lsam Fir	Low	5 - 10 feet	5 - 10 feet	pockets, main aspen component along road in the north edge of the			
												cherry and some scattered aspen, few fir trees. Aspen is in scattered		
30	4116 - Mixed N.	Hardwood	- Aspen Po	letimber	Well	25.4	47	51-80	N/A	4	OPIC - FMD: Mostly M6M3 just coming into pole size but areas of 2-3'			
	Canopy Species	% Cover	Size Class	DBH A	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	dbh sugar maple. Some aspen on east edge but mostly a young hardwood stand. A lot of sprout origin trees but good potential here for			
	Sugar Maple	56	Pole/Sap/Log	8	47	Sug	ar Maple	High	Variable	Variable	hardwood management. Possible to clearcut and manage for aspen			
	Yellow Birch	2	Log/Pole	10		Ва	lsam Fir	Low	Variable	Variable	too. Will take more than one thinning to see good improvement. BA			
	Basswood	6	Pole/Log	9		Iro	nwood	Medium	Variable	Variable	low in poles and overall too small yet for any cut. 2025: Aspen component heavier along stand edge next to opening and along the			
	Quaking Aspen	20	Log/Pole	10				'			road. Mainly S maple poles some logs, some basswood poles/logs,			
	Balsam Fir	5	Pole	6							ironwood poles, Y birch pole/log, cherry pole, few large W spruce.			
	White Spruce	3	Log/Pole	10							Some topography in the middle of the stand, minor hills/slope. Trace amounts of P birch. Variable BA throughout with size classes,			
	Black Cherry	5	Pole	8							scattered pole/log size trees among lots of saplings. Mainly M6/M3,			
	Ironwood	3	Pole	6							lots of S maple saplings that are close to or at pole size with scattered mixed in larger timber, too small to cut yet.			
31	4130	- Aspen	Po	letimber	Well	86.7	36	51-80	N/A	4	OPIC - FMD: A5A3 average 4-6" dbh well-stocked mostly except for			
	Canopy Species	% Cover	Size Class	DBH A	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	some non-stocked wet swales and a few areas of cherry. Some areas are 2" dbh sugar maple. Some older residual hardwood. Fir mixed in			
	Sugar Maple	5	Pole/Sapling	7		Ва	lsam Fir	Low	Variable	Variable	spots. Some white birch on old skid trails seeded in. Some areas still			
	American Elm	3	Pole	7		Sug	ar Maple	High	Variable	Variable	A3 4". Rubus ground cover.2025: Very accurate above comments.			
	Paper Birch	2	Pole/Sapling	6		Pap	oer Birch	Low	Variable	Variable	Aspen pole dominant 6-8"avg, some diameter variability throughout sap/pole, mainly poles throughout across all species. Some mixed in			
	Quaking Aspen	77	Pole/Sapling	7	36			,			cherry poles, scattered S maple pole trees, lots of S maple regen, few			
	Balsam Fir	3	Pole/Sapling	6							elm poles, trace amounts of spruce/fir/P birch. Stand appears healthy			
	Black Cherry	10	Pole/Sapling	6							and will most likely be ready to harvest during the next inventory. Few scattered more open areas and some low more wet areas near the			
											lowland stand in the east and northeast, flooded out areas and ash swales. The conifer component and P birch component mainly followed the trails throughout the stand.			
32	211 -	Cropland		None		68.1			Ye	s	2015 - Sharecropper hay field was mowed. 35 burr and red oak trees			
						Sub-Ca	nopy Species	Density	Avg. Height	Size	were planted along the edge between Std 332 and Std 33.OPIC - FMD: This area is intensively managed by wildlife division. Area			
						Mixe	d Grasses	High	Not Applicable	Not Applicable	divided by fields mostly hay cut at times beneficial to waterfowl.			
						Mixed	Legumes	Low	Not Applicable		AuTrain Wildlife Refuge South Unit F.2025: Accurate above			
									,		comments. Several ponds within the opening, overall mainly grassland, few scattered shrubs/trees/brush.			



Stand	Stand Level 4 Cover Type			Size Density	Acres	Stand Age B	A Range	Managed S	Site	General Comments				
33	6128 - Lowland Dec	Coniferous,	Mixed	Poletimber Medium	27.6	125	51-80	N/A	4	OPIC - FMD: Beaver flooded area in past but now drained(spring 2005). Dead trees in those areas. Spring emerges from ground north				
	Canopy Species	% Cover	Size Clas	s DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	and flows south to disappear back underground. Large flow of several gallons per minute. Early settlers modified spring origin with pipes still				
	Red Maple	8	Pole	9	Ва	lsam Fir	Medium	Variable	Variable	in place. Unique stream here protected by biodiversity stewardship				
	Quaking Aspen	10	Pole	7	Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	designation. C6 and Q6 south in a few areas. Couple acres of upland				
	Balsam Poplar	8	Pole	7						<sup>1</sup> 5-stick aspen east side included. Overall stand is Q5.2025: Accurate above comments. Open water flowing during inventory, also large				
	Balsam Fir	20	Pole/Log	g 9						flooded out areas with dead trees. Ok quality aspen in the N/NE, B				
	Black Spruce	11	Pole	9						poplar along east edge. Dense cedar areas along the waters edge. Ok				
No	rthern White Cedar	38	Log/Pole	e 10 125						spruce/fir component as well. Scattered P birch in areas. Area is very wet and site conditioned, also some scattered more open canopy				
,	Weeping Willow	5	Log	10						areas due to flooding.				
34	4110 - Sugar N	Maple Assoc	ciation	Poletimber Well	11.1	111	81-110	N/A	4	OPIC - FMD: Trees are large with a lot of rot, cankers and other				
	Canopy Species	% Cover	Size Clas	s DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	defects. Much pulp and low quality logs. Good den trees here.  Hardwood right to basin edge. Regeneration is 8' tall well-stocked				
	Sugar Maple	75	Log/Pole	e 12 111	Lea	therwood	Low	5 - 10 feet	5 - 10 feet	sugar maple. Decided to add to potential old growth or biodiversity				
	Basswood	10	Log	14	Ва	lsam Fir	Medium	5 - 10 feet	5 - 10 feet	maintenance to provide good habitat for wood ducks or hooded				
	Black Cherry	15	Log	12	Suç	gar Maple	Medium	Variable	Variable	mergansers next to the basin. 2015-retain as riparian stand for the above habitat reasons.2025: Hardwood stand that borders up to the				
35	6229 - Mixed	6229 - Mixed Lowland Shrub		None	2.0			No		pole/log with come cherry and basswood pole/log. Some fir regen and a good amount of S maple regen. Site conditioned for buffer protection/wildlife habitat/riparian area.				
35	OZZJ - WIIXCO	Lowiand O	IIIGD	None	2.0			NO	,					
36	2113 - Fo	orage Crops	3	None	33.8			Yes	s	2015 - Mowed by sharecropper.OPIC - FMD: This area is nitensively managed by Wildlife Division. Area divided by fields mostly				
					Sub-Ca	nopy Species	Density	Avg. Height	Size	hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge South				
					(	Clovers	Medium	Not Applicable	Not Applicable	Unit M.2025: Accurate above comments. Open managed area, little				
					Mixe	d Grasses	Medium	Not Applicable	Not Applicable	to no shrubs/brush.				
37	211 -	Cropland		None	26.2			Yes	s	2015 - Mowed by sharecropper.OPIC - FMD: This area is				
					Sub-Ca	nopy Species	Density	Avg. Height	Size	nitensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge				
					Mixe	d Grasses	Full	Not Applicable	Not Applicable	South Unit E.2025: Above comments accurate, little to no brush/shrubs, grass opening mainly.				
38	31021 - Coo	l Season G	rass	None	30.1			Yes	S	OPIC - FMD: This area is intensively managed by wildlife division.  Area divided by fields mostly hay cut at times beneficial to waterfowl.				
					Sub-Ca	nopy Species	Density	Avg. Height	Size	AuTrain Wildlife Refuge South Unit K.2025: Accurate above				
					Mixe	d Grasses	Full	Not Applicable	Not Applicable	comments, managed grassland, little to no shrubs/brush.				
39	3102	- Grass		None	33.4			Yes	s	OPIC - FMD: This area is intensively managed by wildlife division.  Area divided by fields mostly hay cut at times beneficial to waterfowl.				
					Sub-Ca	nanu Cnasica	Density	Avg. Height	Size					
					Oub-Ou	nopy Species	Denoity			AuTrain Wildlife Refuge South Unit J.2025: Accurate comments				
					Spotte	d Knapweed d Grasses	Medium		Not Applicable	above, stand is mainly open grassland, few brush/shrubs.				



Stand	tand Level 4 Cover Type Size		Acres Stand Age B	Managed S	Site	General Comments	
40	31021 - Cool Season Grass	None	33.0			s	2019 - Burned opening with adjacent stand 15.2015 -
			Sub-Canopy Species	Density	Avg. Height Size		Sharecropper mowed south part of this opening. SE edge has red and burr oak planted along edge.OPIC - FMD: This area is
		-	., .		Not Applicable	intensively managed by wildlife division. Area divided by fields mostly	
		_					hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge South Unit I.2025: Accurate above description, mainly open grass/crop land, little to no shrubs/brush.
41	211 - Cropland	None	29.6		Yes	s	2015 - Mowed in 2015 by sharecropper.OPIC - FMD: This area is
			Sub-Canopy Species	Density	Avg. Height	Size	intensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge
			Mixed Grasses	Medium	Not Applicable	Not Applicable	South Unit D.2205: Accurate above comments, managed grassland,
			Mixed Legumes	Medium	Not Applicable	Not Applicable	little to no shrubs/brush.
42	211 - Cropland	None			s	2015 - Frost seeded with clover by sharecropper. OPIC - FMD: This	
			Sub-Canopy Species	Density	Avg. Height	Size	area is intensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife
			Mixed Grasses	Full	Not Applicable	Not Applicable	Refuge South Unit A.2025: Accurate above comments.
			Mixed Legumes	Full	Not Applicable	Not Applicable	
43	211 - Cropland	None	32.5 Yes				2015 - Mowed by sharecropper.OPIC - FMD: This area is
			Sub-Canopy Species	Density	Avg. Height	Size	intensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge
			Mixed Grasses	High	Not Applicable	Not Applicable	South Unit C.2025: Accurate above comments.
			Mixed Legumes	Low	Not Applicable	Not Applicable	
44	211 - Cropland	None	34.7		Ye	s	2015 - Frost-seeded and mowed in 2015 by sharecropper. OPIC -
			Sub-Canopy Species	Density	Avg. Height	Size	FMD: This area is intensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl.
			Mixed Grasses	Medium	Not Applicable	Not Applicable	AuTrain Wildlife Refuge South Unit B.2025: Accurate above
			Clovers	Medium	Not Applicable	Not Applicable	comments.
45	500 - Water	None	0.4		No	)	OPIC - FMD: DNR made pond 1980's holds water most of year.2025: Small pond surrounded by some scattered low quality
							aspen, cherry, and P birch.
46	500 - Water	None	1.6		No	)	OPIC - FMD: DNR made pond 1980's, holds water most of the year.2025: Open pond area surrounded by aspen mainly with some scattered cherry and elm.
47	500 - Water	None	1.2		No	)	OPIC - FMD: DNR made pond, holds water most of the year.2025:
			Sub-Canopy Species	Density	Avg. Height	Size	Open pond area surrounded by willow and alder, lots of shrubs/brush surrounding the area.
		-	Weeping Willow	Low	Variable	Variable	carrounding the area.



Stand	l Level 4 C	over Type	Type Size Density Acres Stand Age BA Range Managed Site		ite	General Comments					
49	42300 - P	lanted Larc	h Pol	Poletimber Mediu		n 15.0 37		51-80	N/A	<b>\</b>	A recent purchase from Plum Creek. Stand located within AuTrain  Waterfowl Refuge. Weyerhauser purchased Plum Creek in 2016. The
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	timber rights stay with Weyerhauser for five years from date of
	Quaking Aspen	5	Pole/Sapling	6	37	Blac	k Cherry	Low	Variable	Variable	purchase, which was September 2014. Timber rights expire
L	_arch (non-native)	95	Pole/Sapling	7	37	Quaki	ng Aspen	Low	Variable	Variable	September 2019. European larch planted by Plum Creek.2025: Tamarack poles mainly 6-8" avg, some smaller some larger, canopy is semi open, variable stocking in some areas and some openings. Some scattered aspen present as well. 2-3 stick average with the
											tamarack, trace amounts of cherry saplings and raspberry in the understory. Stand appears healthy overall, saw a few trees with some evidence of porcupine damage.
50	622 - Lov	vland Shrub	)	Non	e	20.3			No	ı	OPIC - FMD: Lowland brush with some marsh along Johnson creek.
						Sub-Can	opy Species	Density	Avg. Height	Size	
						Tag	g Alder	Full	5 - 10 feet	5 - 10 feet	
51	4130	- Aspen	Pol	letimber		n 0.8	37		N/A	1	A4T4A3 Stand was heavily defoliated 1-2 years ago and showing some stress. Natural aspen with tamarack planted in the open areas.
	Canopy Species	% Cover	Size Class	DBH			opy Species	Density	Avg. Height	Size	A recent purchase from Plum Creek. Stand located within AuTrain
	Quaking Aspen	50	Pole/Sapling	6	37	Suga	ar Maple	Medium	Variable	Variable	Waterfowl Refuge. Weyerhauser purchased Plum Creek in 2016. The
	Bigtooth Aspen	20	Pole/Sapling	6		Blac	k Cherry	Medium	Variable	Variable	timber rights stay with Weyerhauser for five years from date of purchase, which was September 2014. Timber rights expire
	Black Cherry	30	Pole/Sapling	7		Amer	ican Elm	Low	10 - 20 feet	10 - 20 feet	September 2019. 2025: Aspen/cherry sap/pole stand, mainly poles 4-
						Bals	sam Fir	Low	Variable	Variable	8". Canopy is semi open in spots, some more open less stocked
52	4130	- Aspen		Sapling	Well	3.4	6	51-80	N/A	<u> </u>	areas, trace amounts of spruce/fir. Mainly aspen pole dominant with some mixed in cherry poles, S maple and cherry regen underneath the poles. Stand is surrounded by planted tamarack.  A4T4A3 Stand was heavily defoliated 1-2 years ago and showing
02	Canopy Species	% Cover			Age						some stress. Natural aspen with tamarack planted in the open areas.
	Quaking Aspen	55	Sapling	1	6						A recent purchase from Plum Creek. Stand located within AuTrain Waterfowl Refuge. Weyerhauser purchased Plum Creek in 2016. The
	Bigtooth Aspen	25	Sapling	1							timber rights stay with Weyerhauser for five years from date of
	Black Cherry	20	Sapling	1							purchase, which was September 2014. Timber rights expire
	J. 10.1. 10.1. 1		Заршід								September 2019. 2025: Stand must have been harvested before Weyerhauser timber rights expired in 2019. Aspen/cherry pole/sap stand, mainly poles. A3 aspen mainly 1-2" avg, some scattered cher 1-2". Few larger scattered aspen/cherry 3-6", trace amounts of spruce/fir/tamarack. Some more open canopy areas with less stocki present.
53	4130	- Aspen		Sapling	Well	0.9	6	51-80	N/A	٨	A4T4A3 Stand was heavily defoliated 1-2 years ago and showing
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	some stress. Natural aspen with tamarack planted in the open areas A recent purchase from Plum Creek. Stand located within AuTrain Waterfowl Refuge. Weyerhauser purchased Plum Creek in 2016. The timber rights stay with Weyerhauser for five years from date of
	Quaking Aspen	55	Sapling	1	6	Suga	ar Maple	Trace	Variable	Variable	
	Bigtooth Aspen	30	Sapling	1		Amer	ican Elm	Trace	10 - 20 feet	10 - 20 feet	
	Black Cherry	15	Sapling	2		Bals	sam Fir	Trace	Variable	Variable	purchase, which was September 2014. Timber rights expire September 2019. 2025: Stand must have been harvested by
											Weyerhauser before their timber rights expired in 2019. Stand is A3 aspen mainly 1"avg, some scattered cherry. Few larger aspen/cherry poles. Trace amounts of fir, tamarack, and S maple. Canopy has some more open less stocked areas.

Gwinn Mgt. Unit

Compartment: 97 Year of Entry: 2027



Stand	d Level 4 Cover Type			Size De	nsity	Acres Stand	ange	Managed S	ite	General Comments		
54		and Deciduous with onifer		Sawtimber Well		10.9 105	105 81-110		1-110 N/A		OPIC - FMD: Hardwood left when aspen was cut, buffer stand for Johnson Creek. Large aspen. Some areas mostly aspen but most	
	Canopy Species % Cover Size Cla			DBH	Age	Sub-Canopy S	pecies D	ensity	Avg. Height	Size	hardwood. Thick fir understory in areas. Stand is in biodiversity maintenance for protecting riparian values.2025: Small hdwd/conifer	
	Red Maple	45	Log/Pole	10	105	Balsam Fi	r	High	Variable	Variable	buffer strip that follows high ground ridge area before Johnson Creek.	
	Quaking Aspen	15	Pole	6							Low quality hdwds, lots of small fir, some aspen, some very large	
	Balsam Fir	35	Pole	5	30						overmature scattered aspen. Trace amounts of Y birch, hemlock, ironwood, S maple, and cedar. Lots of Red maple clumps, low quality	
	White Spruce	5	Pole	6							good buffer retention area with slope before the creek.	
55	4130	- Aspen	Pol	etimbe	Mediur	n 4.8 56	51-	-80	N/A		OPIC - FMD: Like stand immediately west. Semi-open areas. Mostly	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy S	pecies D	ensity	Avg. Height	Size	5 stick aspen. Young yet and not good quality aspen. Some hypoxylin Some w. pine and i. pine in stand especially SE. Cut in 10-20 years.	
	Quaking Aspen	70	Pole/Sapling	6	56	Quaking Asp	en	Low	Variable	Variable	2015-stand small, still not ready to harvestjust now transitioning to	
	Balsam Fir	5	Pole/Sapling	6		Black Cher	ry	Low	Variable	Variable	pole stand.2025. Mainly pole aspen with some cherry poles, fairly	
	White Spruce	3	Log/Pole	10		Balsam Fi	r	Low	Variable	Variable	open canopy, some scattered open spots with few trees. Aspen and cherry are variable in size 4-8", 2-3 sticks, some 4, most are 2 sticks.	
	Black Cherry	22	Pole/Sapling	7			· · · · · · · · · · · · · · · · · · ·		'		Few W spruce log trees, some spruce/fir and cherry in the understory	
				'							Most of the aspen is just at pole size or slightly larger, not of great quality, could be ready to harvest at time of next inventory.	
56	4130 - Aspen			Sapling	y Well	75.2 35	1-/	-50	N/A		OPIC - FMD: This stand harvested 1990 and this portion came back	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy S	pecies D	ensity	Avg. Height	Size	well-stocked aspen 1" dbh but some areas are more poorly stock 2015-sugar maple site, with trillium, leatherwood.2025: Aspen	
	Quaking Aspen	80	Pole/Sapling	6	35	Sugar Map		High	Variable	Variable	sap/pole dominated 3-6" avg, lots of saplings on the verge of	
	Balsam Fir	5	Sapling/Pole	4		Balsam Fi		Low	5 - 10 feet	5 - 10 feet	becoming poles or just meet pole size, few larger aspen scattered.	
	Black Cherry	15	Pole/Sapling	5		Black Cher	ry	Low	Variable	Variable	Lots of S maple regen 1-2" saplings under the aspen, some cherry sap/pole present as well, some larger scattered cherry poles. Area	
	220 Un	Sland Chuib		Nev		22.4			No		has some more open less stocked areas scattered throughout. Area also has scattered wet areas, mainly in the west half of the stand and larger wet area in the SW finger of the stand.	
57	320 <b>-</b> Up	oland Shrub		Noi	ie –	32.4			No		OPIC - FMD: This area harvested in 1990 was mostly hardwood.  Regeneration is poorly stocked cherry and red maple clumps with a	
						Sub-Canopy S		ensity	Avg. Height	Size	few sugar maple sprouts. A few aspen clones included all about 1"	
						Sugar Map		Medium	Variable	Variable	dbh. Stand was harvested to provide wildlife values closer to	
						Red Maple		Medium	Variable	Variable	waterfront.2025: Few areas of more well stocked aspen pockets with poletimber 6-8". Mainly aspen, cherry, and maple saplings, some	
						Quaking Asp	en	High	Variable	Variable	spruce/fir. Scattered open areas of no trees and low stocked areas all	
						Black Cher	гy	High	Variable	Variable	throughout. Some wet areas scattered throughout too. S maple regen	
											is med/high under the aspen, some dense areas. Overall lots of cherr brush with scattered aspen clumps and maple saplings.	
58	4130	- Aspen	Pol	etimbe	Mediur	n 44.4 30	Imma	ature	N/A		2015 - palnted 30 red/burr oak along NE portion of this stand.	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy S	pecies D	ensity	Avg. Height	Size	OPIC - FMD: This areas is coming into aspen from former open.	
	Sugar Maple	3	Pole	8		Balsam Fi	r	Low	5 - 10 feet	5 - 10 feet	Some of stand is scattered cherry. More well-stocked aspen east and	
	Red Maple	2	Log/Pole	10		Black Cher	ry N	Medium	5 - 10 feet	5 - 10 feet	more scattered cherry or upland brush west. 2015-Young aspen	
	Quaking Aspen	80	Pole/Sapling	6	30	Sugar Map	e	High	Variable	Variable	clones with upland brushmostly cherry.2025: Some areas of larger pole aspen 8-12", overall young sap/pole aspen 4-6". Lots of S mapl	
	Balsam Fir	3	Pole/Sapling	5		Red Maple	9	Low	Variable	Variable	regen, some cherry/fir regen. Stand has some open areas and	
	Black Cherry	12	Pole/Sapling	6							scattered gaps. Trace amounts of overstory R maple clumps pole/log	
		,		,							and some S maple poles. Mainly A4/5 stand with scattered gaps and variable aspen sizes with a lot of S maple regen and some cherry	

regen.



Stand	d Level 4 C	Level 4 Cover Type Size Density Acres Stand Age BA Range Man		Managed Si	Managed Site General Comments							
59	4130	- Aspen		Sapling We		1.0	6	1-5	50	N/A		A4T4A3 Stand was heavily defoliated 1-2 years ago and showing
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s De	ensity	Avg. Height	Size	some stress. Natural aspen with tamarack planted in the open areas.  A recent purchase from Plum Creek. Stand located within AuTrain
	Quaking Aspen	50	Sapling	1	6	Sug	gar Maple	1	Ггасе	Variable	Variable	Waterfowl Refuge. Weyerhauser purchased Plum Creek in 2016. The
	Bigtooth Aspen	30	Sapling	1		Ame	erican Elm	1	Ггасе	10 - 20 feet	10 - 20 feet	timber rights stay with Weyerhauser for five years from date of
	Black Cherry	20	Sapling	2		Ва	alsam Fir	٦	Ггасе	Variable	Variable	purchase, which was September 2014. Timber rights expire September 2019. 2025: Stand must have been harvested by
												Weyerhauser before their timber rights expired in 2019. Mainly A3 aspen 1"avg, some scattered cherry 2-3" avg. Stand is surrounded by tamarack.
61	42300 - P	lanted Larc	ch Po	letimber	Mediu	m 1.0	37	51-8	80	N/A		A recent purchase from Plum Creek. Stand located within AuTrain
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	s De	ensity	Avg. Height	Size	Waterfowl Refuge. Weyerhauser purchased Plum Creek in 2016. The timber rights stay with Weyerhauser for five years from date of
	Quaking Aspen	5	Pole/Sapling	6	37	Bla	ck Cherry		Low	Variable	Variable	purchase, which was September 2014. Timber rights expire
L	_arch (non-native)	95	Pole/Sapling	7	37	Qual	king Aspen		Low	Variable	Variable	September 2019. European larch. 2025: Tamarack poles mainly 6-
												8"avg, some smaller some larger. Canopy has some semi open areas with variable stocking. Some scattered aspen present. 2-3 stick avg for tamarack, trace amounts of cherry saplings and raspberry in understory. Stand appears healthy overall.
62	4130	- Aspen		Sapling		20.4	10	Imma	ture	N/A		2025: Stand must have been harvested by Weyerhauser before their timber rights expired in 2019. Old paint lines still visible. Stand is
	Canopy Species	% Cover	Size Class	DBH	l Age							mainly Aspen saplings 2-3"avg, with some scattered cherry sap 3"avg.
	Quaking Aspen	50	Sapling	2	10							There was some larger scattered pole sized aspen and cherry.
	Bigtooth Aspen	30	Sapling	2								Canopy has some open areas of less stocking. Regen is noticeably larger in this stand compared to the nearby A2 stands in the west.
	Black Cherry	20	Sapling	3								Regen in this stand is variable throughout 1-3" with scattered pole sized trees throughout. Few scattered spruce/fir, lots of cherry clumps, trace amounts of S maple and overstory fir/spruce.
400	310 - Herbac	ceous Oper	ıland	Nor	ne	7.9				No		OPIC - FMD: grass opening filling in a little bit but some beaver activity as well on island between forks of Johnson creek.2025: Above comments accurate, stand is isolated and surrounded by water, unable to get boots on the ground.
401	310 - Herbac	ceous Oper	ıland	Nor	ne	4.6				No		2015 - planted 45 red/burr oak within this stand.OPIC - FMD: Open area probably old pasture or other agricultural field from homestead days. Filling in with trees on edges.2025: Mainly open area with some scattered trees, mainly cherry/spruce/fir, some poles mainly saplings. Trace amounts of red maple and white pine.
402	310 - Herbac	eous Oper	land	Nor	ne	1.2				No		2015: Small opening filling in.2025: Accurate above comment, really starting to fill in with trees, scattered Red maple, cherry, birch, fir.
404	310 - Herbac	eous Oper	ıland	Nor	ne	1.3				No		2015: Small forest opening filling in.2025: Small opening filling in with scattered cherry, red maple, fir, birch.
405	310 - Herbac	ceous Oper	ıland	Nor	ne	0.8				No		OPIC - FMD: OI Stand Year Origin was 2025: Small open area with trail running thru it, scattered cherry, fir, and red maple, trees encroaching.

Compartment: 97	
Year of Entry: 2027	



Stand	Level 4 Cover Type	Size Density	Acres Stand Age	BA Range	Managed 9	Site	General Comments
407	310 - Herbaceous Openland	None	0.7		No	0	Small forest opening.2025: Small opening that is starting to fill up with trees, good number of trees encroaching in and starting to fill the opening.
408	310 - Herbaceous Openland	None	250.6		Ye	es	OPIC - FMD: Mostly scattered cherry. Other trees invading. Would like to burn this some time this next entry period to maintain in an open condition. Central area of stand (Burn Unit 4) was treated with a Rx Burn (FTP #F32-648) on September 10, 2011. Three other burn units within this stand remain unburned (Units 1, 2 and 5), though control lines are in place. Mop-up and monitoring occurred on September 11, 2011. 2015-Grass opening converting to upland brush. Knapweed throughout. Additional burning of this stand will only hasten the conversion to brush.2025: Very open, lots of scattered cherry, some aspen, turning into more brush than grass. Mainly cherry saplings with scattered spruce/fir.
409	211 - Cropland	None	36.3	Ye	es	13 acres rocked raked and planted to clover. Oat were seed drilled in	
			Sub-Canopy Species	Density	Avg. Height	Size	2015. 130 red/burr oaks planted in along the east perimeter and area not sharecropped in 2015.OPIC - FMD: This area is intensively
			Mixed Legumes	Low	Not Applicable	Not Applicable	managed by wildlife division. Area divided by fields mostly hay cut at
			Oak (spp.)	Low	5 - 10 feet	5 - 10 feet	times beneficial to waterfowl. AuTrain Wildlife Refuge South Unit H.2025: Accurate above comments, mainly open area, few scattered
			White Spruce	Low	5 - 10 feet	5 - 10 feet	trees mainly along stand edges and in the NW.
			Mixed Grasses	Full	Not Applicable	Not Applicable	
410	310 - Herbaceous Openland	None	117.0		Ye	es	OPIC - FMD: Mostly scattered cherry. Other trees invading. Would like to burn this some time this next entry period to maintain in an open condition. 2015-Grass opening converting to upland brush. Knapweed throughout. Additional burning of this stand will only hasten the conversion to brush.2025: Accurate comments above. Classic opening, scattered aspen, cherry, spruce/fir, trace amounts of W pine. Mostly cherry overall with lots of other scattered trees/brush/shrubs.
412	310 - Herbaceous Openland	None	34.3		Ye	es	OPIC - FMD: This area is intensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge South Unit L. Very poor soils with soils described as cobbly.2025: Open, good amount of small spruce/aspen/cherry scattered.
413	310 - Herbaceous Openland	None	53.4		Ye	es	OPIC - FMD: Mostly scattered cherry. Other trees invading. Would like to burn this some time this next entry period to maintain in an open condition. 2015-Grass opening converting to upland brush. Knapweed throughout. Additional burning of this stand will only hasten the conversion to brush.2025: Above description accurate. Mostly scattered cherry, some spruce/fir, trace amount of W pine, aspen. Mainly still an open area, trees encroaching in areas and some more dense brush/shrub areas.