

Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72025
Entry Year 2021
Acreage: 2,018
County Oscoda

Management Area: AuSable Outwash

Revision Date: 2019-07-24

Stand Examiner: Colton Behrmann

Legal Description:

Elmer Township T28N, R02E, Sections 3, 10, 11, 14, and 15

Identified Planning Goals:

To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment while providing for multiple use and visual management.

Soil and topography:

Topography consists of rolling hills with areas of steep slope. Soil types are a mixture of Graycalm, Emmet, and Grayling sands. Soils and terrain present erosion concerns throughout the compartment.

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

This compartment is found within a large block of public ownership. Private parcels are found along the borders of the compartment.

Unique Natural Features:

There is potential for dry prairie plants in grassy openings such as Hill's thistle, rough fescue, Alleghany plum, and Pale Agoseris. Other plant species known to occur in the area are the ram's head lady slipper, lime stone oak fern, and round leaved orchids. There is potential for several animals of concern in this compartment: Kirtland's warbler, prairie warbler, bald eagle, wood turtle, Blanding's turtle, Massasauga rattlesnake, secretive locust, dusted skipper, grizzled skipper, and the red-legged spittle bug.

Archeological, Historical, and Cultural Features:

None known at this time.

Special Management Designations or Considerations:

None at this time.

Watershed and Fisheries Considerations:

Second Lake can be found in sections 11 and 14.

Wildlife Habitat Considerations:

Try to expand the aspen component where possible. During timber harvesting, make efforts to improve snag habitat and down woody debris. Also, try to leave some high stumps for feeding perches and drumming.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of medium-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Coldwater Shale. There is not a current economic use for the Coldwater Shale. The nearest active sand/gravel pit is located three miles to the north, but sand & gravel potential appears to be very good within the compartment. The compartment lies within the Antrim Shale gas play. The entire compartment is currently under leased and the mineral rights are held by production. No other known oil & gas potential exists in this area. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Access through out the compartment is excellent by way of numerous county, forest roads and trails, and gas pipeline right-of-ways. County roads in the compartment are Oak Lake, Second Lake, Hill, and Granholm Roads.

Survey Needs:

Potential for a survey exists for stand 28. Corners were not confirmed during inventory.

Recreational Facilities and Opportunities:

Part of the Muskrat Lake Snowmobile trail 4/9 and the Hunt Creek MCCCT Trail are located within the compartment.

Dispersed recreation occurs throughout the area.

Fire Protection:

The current road system is adequate, timber conversion is not needed. Topography will prove to be equipment limiting.

Additional Compartment Information:

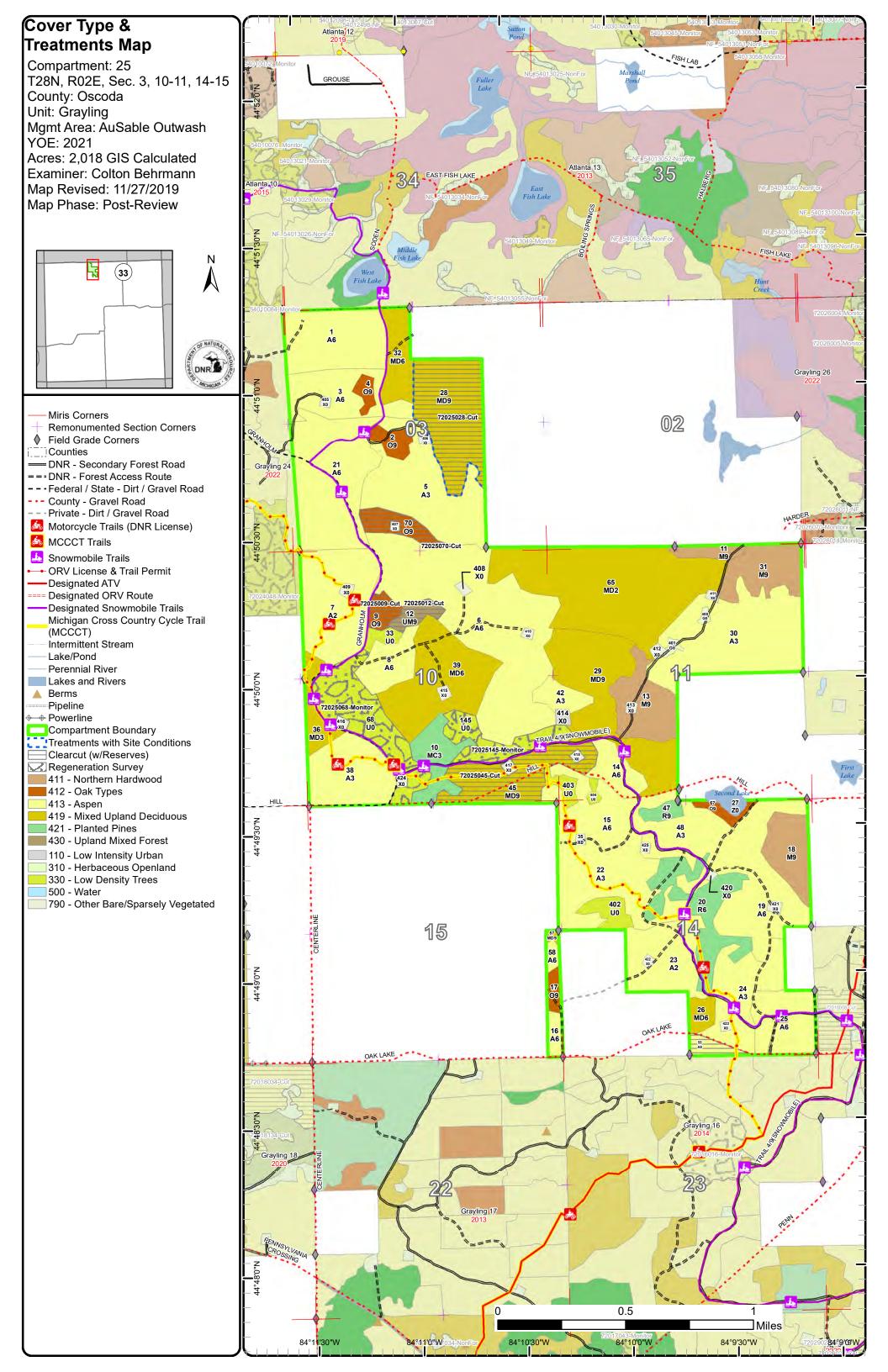
The following reports from the Inventory are attached:

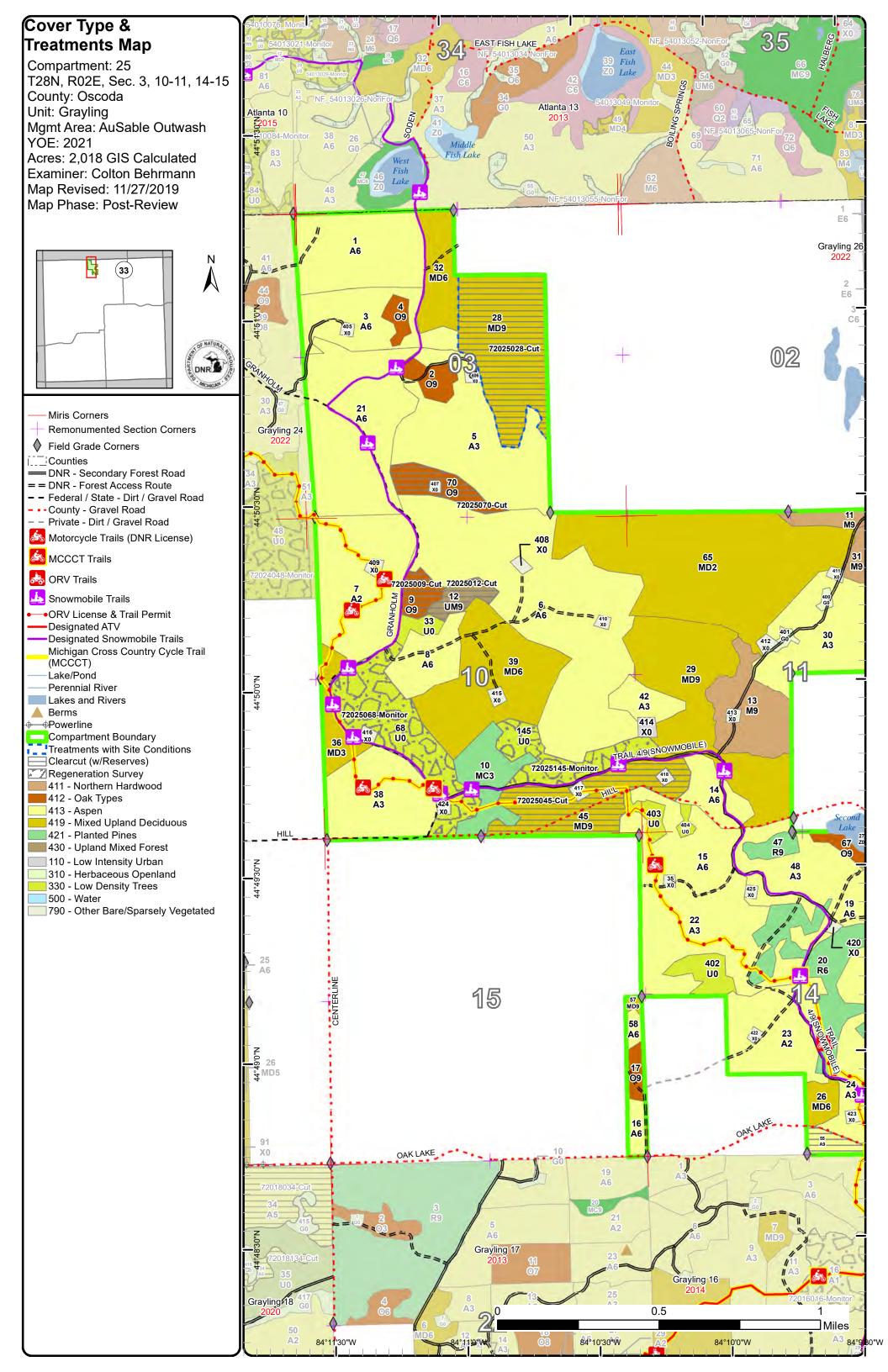
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

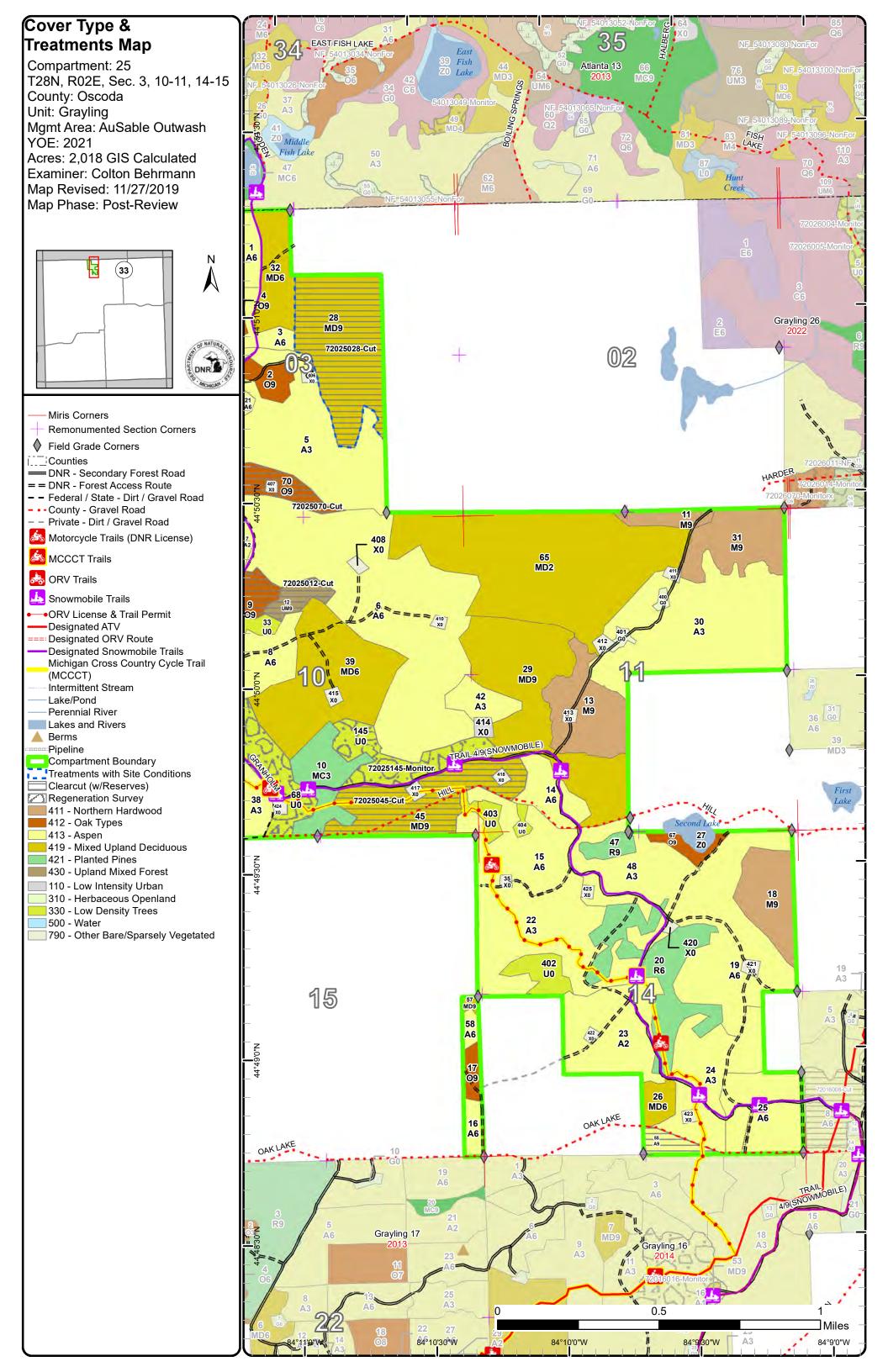
The following information is displayed, where pertinent, on the attached compartment maps:

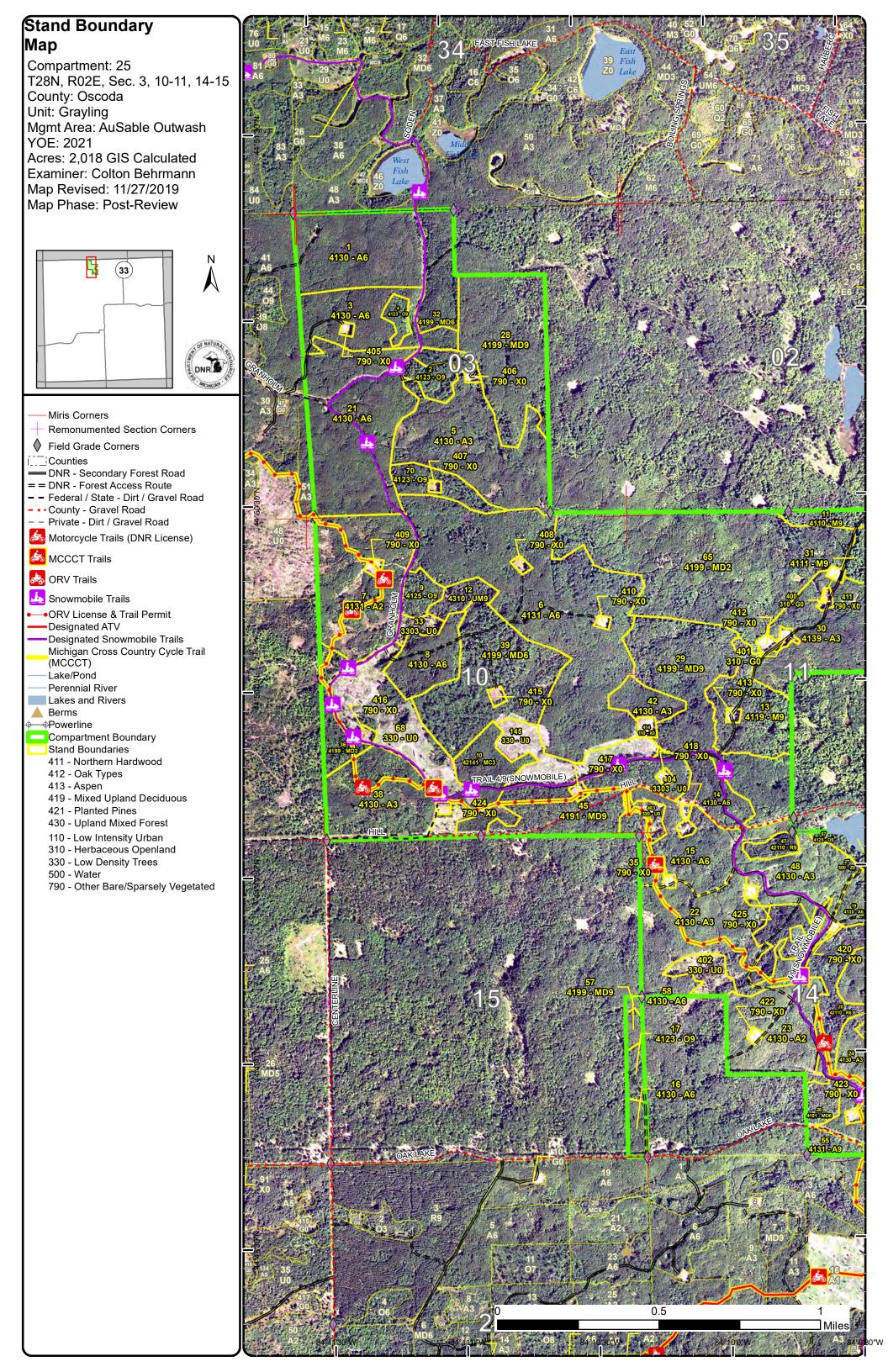
Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries

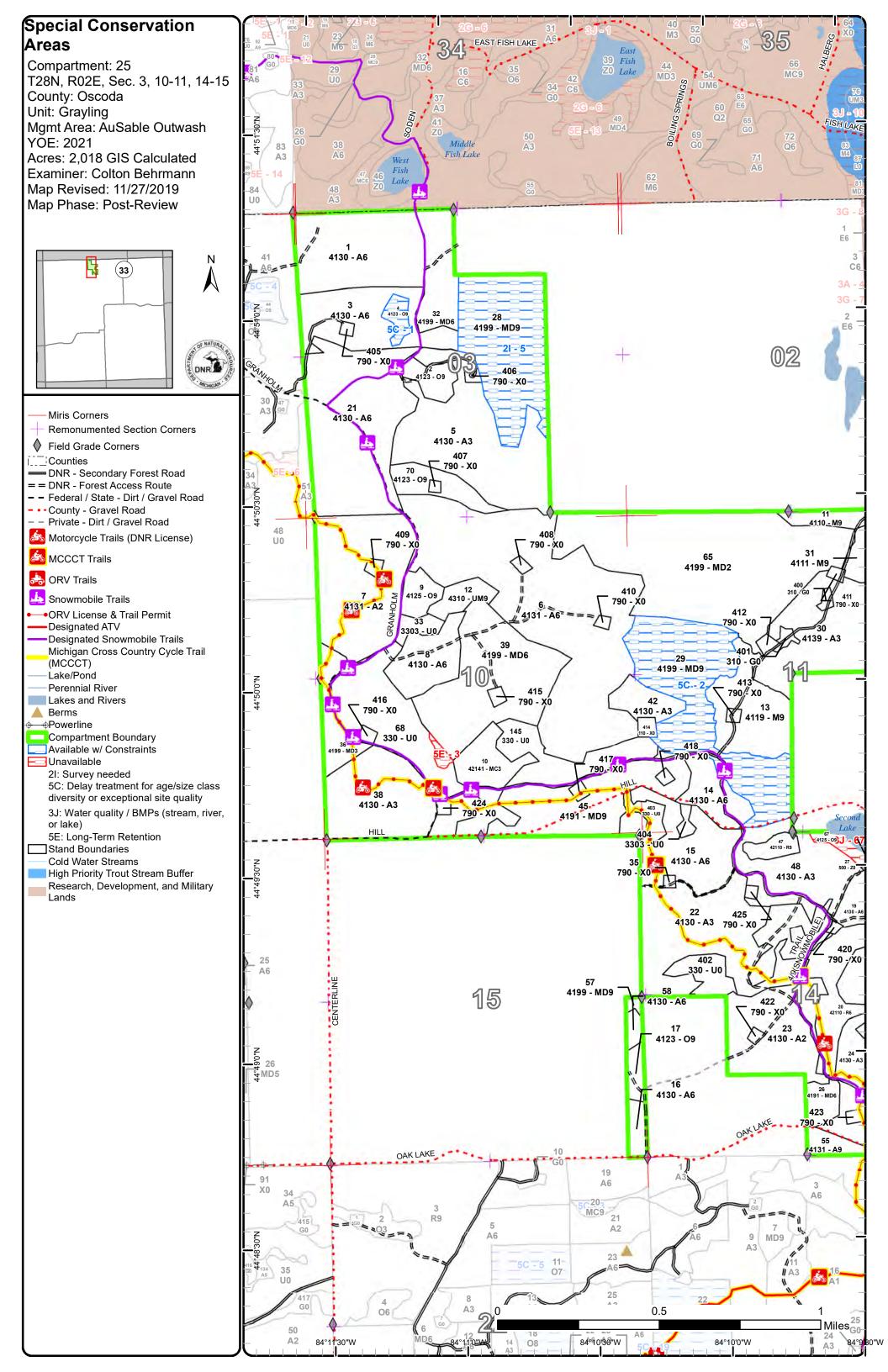
Details on the road access system

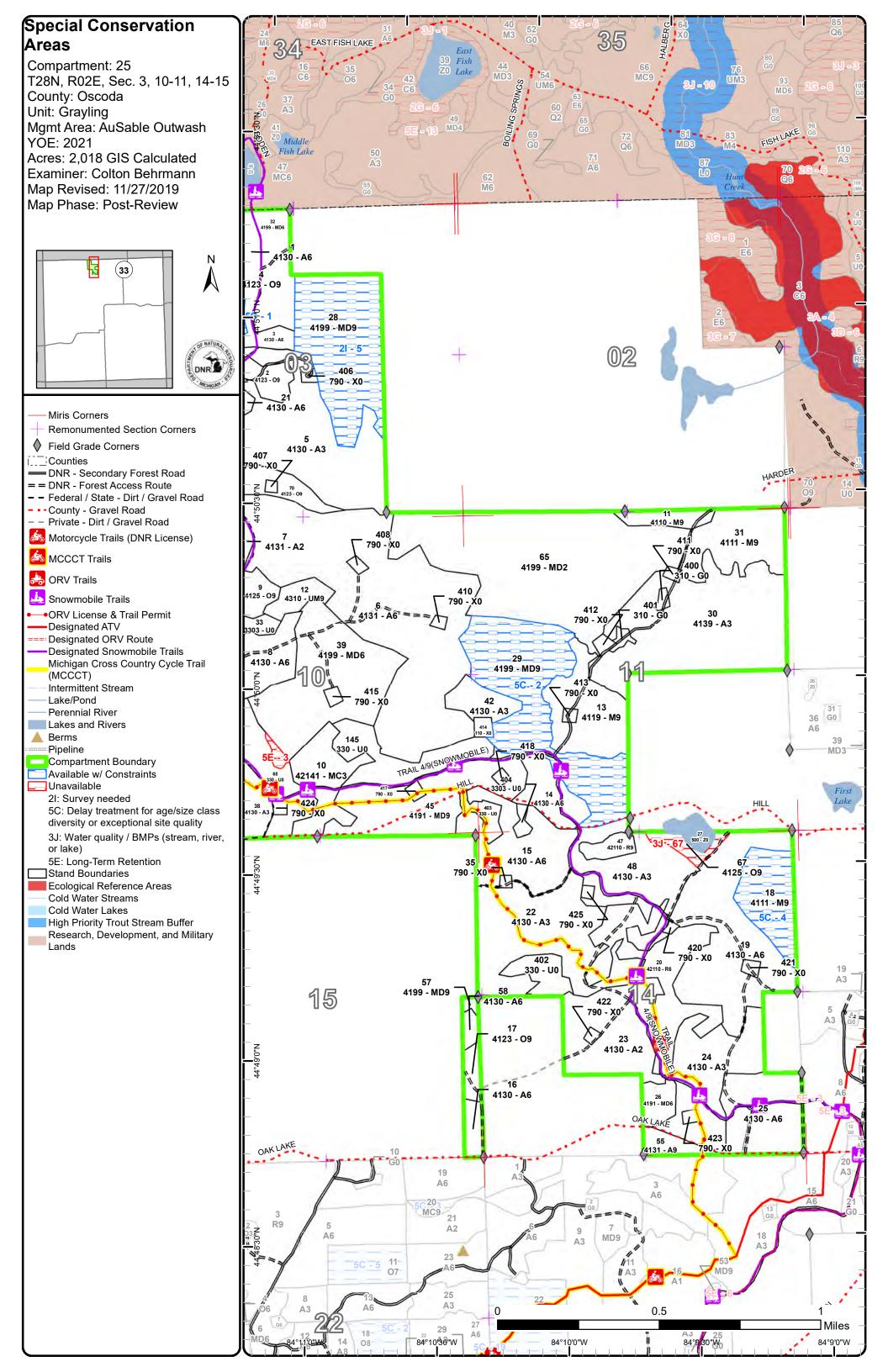


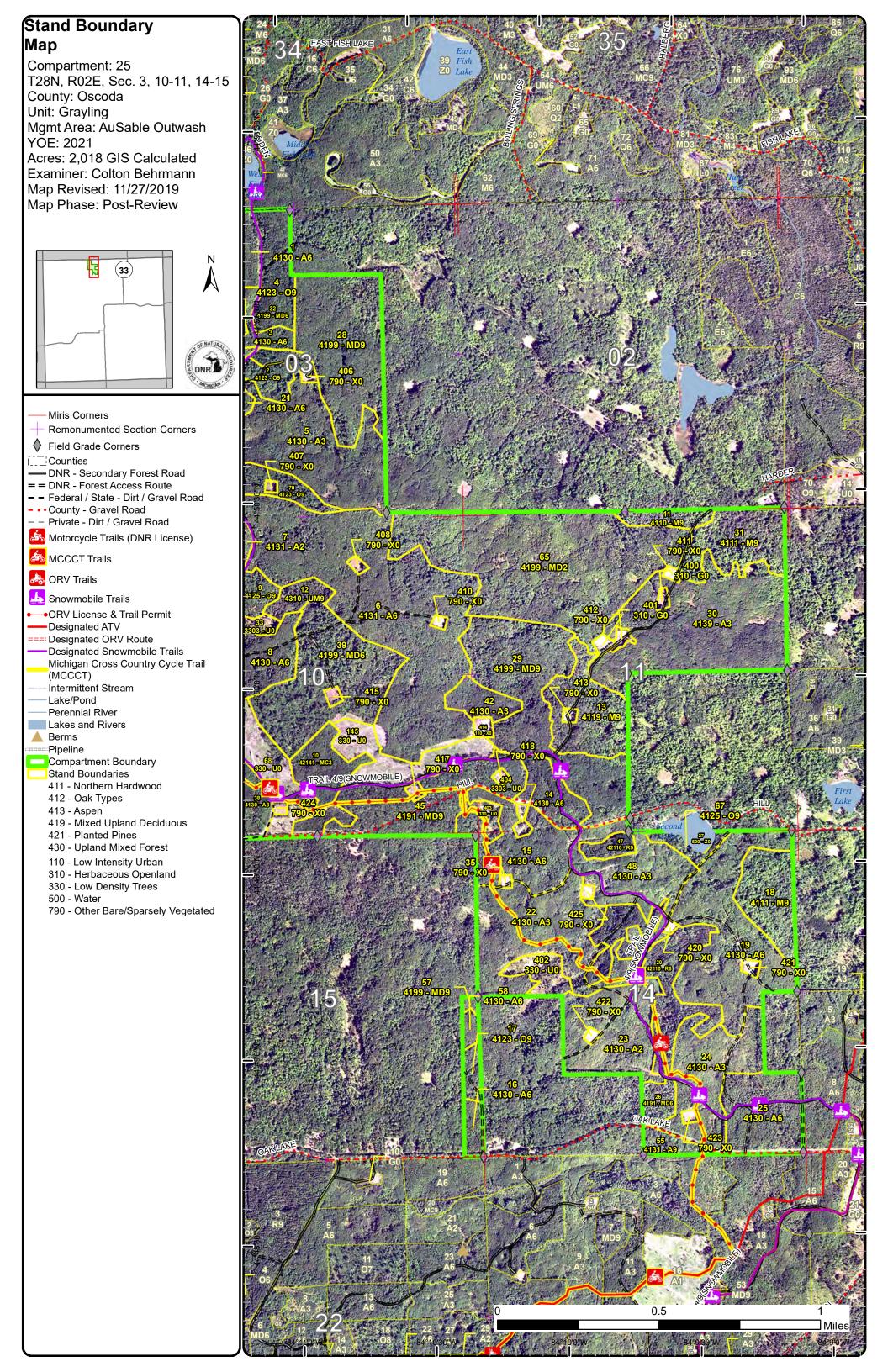












Colton Behrmann: Examiner

Compartment 25 Year of Entry 2021



Age Class

	Age.	Korin C	3 / 8	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	S S	3 / 15	& &	3/8		R. S.	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	S / W	"I" " " " " " " " " " " " " " " " " " "	Ø / &	R. S.		9. J.	St Jres	LA LOS
Aspen	0	0	347	371	336	76	0	8	0	0	0	0	0	0	0	0	0	0	1137
Bare/Sparsely Vegetated	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Low-Density Trees	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111
Mixed Upland Deciduous	0	0	239	0	25	9	0	0	0	0	140	72	0	0	0	0	0	0	485
Northern Hardwood	0	0	0	0	0	0	0	0	0	30	81	0	0	0	0	0	0	0	111
Oak	0	0	0	0	0	0	0	0	0	0	22	30	0	0	0	0	0	0	52
Planted Mixed Pines	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Red Pine	0	0	0	0	0	0	55	0	0	0	0	0	0	0	0	0	0	0	55
Upland Mixed Forest	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	9
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	144	0	586	398	361	85	55	17	0	30	243	102	0	0	0	0	0	0	2019



Report 2 – Treatment Summary

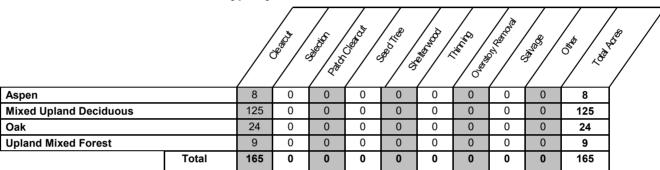
Grayling Mgt. Unit Year of Entry: 2021

Acres of Harvest

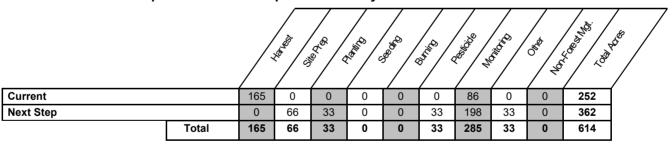
Compartment 25
Total Compartment Acres: 2,018

Commercial Harvest - 94 Harvests with Site Condition - 72 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Report 3 -- Treatments

Compartment: 25 Year of Entry: 2021

Treatment Name

s

t а

n

d

Acres

Stand CoverType

Size Stand Density Age

BA Range **Treatment** Type

Treatment Method

Cover Type Objective

Age Structure Habitat Cut

Approved Treatments:

72025009-Cut 8.9 4125 - Black, N. Pin Sawtimber 99 81-110 Harvest Clearcut 4211 - Planted Even-Aged No Red Pine Oak Well

Prescription Final harvest all trees 2 inches and greater in diameter. No retention due to stand size and to aid in site preparation. Add low stump spec.

Add trail spec. Specs:

Next Step Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial

Treatments: Regen(3yr); SitePrep, Roller Chopping; Other, Pre-Commercial Thinning - Hand

Acceptable Fully stocked red pine plantation.

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

12 72025012-Cut 9.0 4310 - Pine, Oak 4211 - Planted Sawtimber 69 111-Harvest Clearcut Nο Even-Aged Mix Well 140 Red Pine

Prescription Final harvest all trees 2 inches and greater in diameter. No retention due to stand size and to aid in site prep. Add low stump spec.

Specs:

Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Next Step

Treatments: Regen(3yr); SitePrep, Roller Chopping; Other, Pre-Commercial Thinning - Hand

Acceptable Fully stocked red pine plantation.

Regen:

Other

Comment: Site Condition

Proposed Start Date: 10/1 /2020

72025028-Cut 71.9 4199 - Other Mixed Sawtimber 100 111-Harvest Clearcut with 4139 - Aspen, Even-Aged No **Upland Deciduous** Well 140 Retention Mixed Deciduous

Prescription Final harvest all trees 2 inches and greater in diameter. Follow standard retention guidelines. Focus retention around white and red pine in the eastern half of stand. Protect wildlife shrub species where possible. Specs:

Monitoring, Natural Regen (Re-Inventory)

Next Step Treatments:

Acceptable Natural regenerated stand of aspen with mixed hardwoods meeting minimum stocking standards.

Regen:

Other Comment:

Site Condition Survey Needed Proposed Start Date: 10/1 /2020

Grayling Mgt. Unit Report 3 -- Treatments Compartment: 25 S Year of Entry: 2021 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 45 72025045-Cut 53.0 4191 - Mixed Sawtimber 111-Harvest Clearcut with 4139 - Aspen. Even-Aged No **Upland Deciduous** Well 140 Retention Mixed with Conifer Deciduous Prescription Final harvest all trees 2 inches and greater in diameter. Follow standard retention guidelines. Add trail spec. Protect wildlife shrub species Specs: where possible. Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Naturally regenerated stand with mixed deciduous and a small component of conifer species meeting minimum stocking levels. Acceptable Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2020 72025055-Cut 7.7 4131 - Aspen, Oak Sawtimber 66 81-110 Harvest Clearcut 4139 - Aspen, Even-Aged No Mixed Well Deciduous Prescription Final harvest all trees 2 inches and greater in diameter. No retention due to small stand size and slope operability. Restrict to shortwood Specs: operation due to slope. Monitoring, Natural Regen (Re-Inventory) Next Step **Treatments:** Acceptable Naturally regenerated stand with aspen and a mix of deciduous and conifer species meeting acceptable stocking levels. Regen: **Other** Comment: Site Condition Proposed Start Date: 10/1 /2020 0 Unspec Natural Regen 72025068-57.3 330 - Low-Density Nonstocked Monitoring 412 - Oak Types Even-Aged No 68 **Trees** ified (Intermediate) Monitor **Prescription** Specs: Next Step **Treatments:** Acceptable A moderate to fully stocked stand of natural regeneration containing an oak component along with aspen. Regen: **Other** Percent to Treat = 100% Comment: Site Condition Proposed Start Date: 5 /1 /2022 14.9 4123 - Red Oak Sawtimber 141-Harvest Clearcut with 4211 - Planted No 70 72025070-Cut Even-Aged Red Pine Well 170 Retention Prescription Final harvest all trees 2 inches and greater in diameter. Follow standard retention guidelines. Add low stump spec to aid in site prep. Specs: Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Next Step Treatments: Regen(3yr); SitePrep, Roller Chopping; Other, Pre-Commercial Thinning - Hand Acceptable Fully stocked red pine plantation. Regen: <u>Other</u> Comment:

Proposed Start Date: 10/1 /2020

Site Condition

S t a		Graylin	ng Mgt. Unit		Repo	rt 3 T	Freatments	Compartment Year of Entry	OF NATURAL PRODUCTION OF NATURAL PRODUCTION OF NATURAL PROPURS OF NATU		
n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
Spec:		29.0	330 - Low-Density Trees	Nonstocke	ed 0	Unspec ified	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Even-Ageo	d No
Rege Other Comr	n: comp	agement ob conent. ent to Treat	jective is oak, but wi	Il accept a	mixed ı	moderately	y stocked stand	of aspen, pine and	l mixed hardwoods	with an oak	(

Total Treatment Acreage Proposed: 251.7

Proposed Start Date: 5 /1 /2022

Compartment: 25

Grayling Mgt. Unit

Colton Behrmann : Examiner Year of Entry: 2021

Availa	ability for	Managemer	nt					
Total	Acres	Acres Avail	Acres		Domina	nt Site	Con	ditions
Acres	Available	With Condition	Not Available		21	5C	3J	5E
1136	1136	0	0	Aspen				
24	24	0	0	Bare/Sparsely Vegetated				
3	3	0	0	Herbaceous Openland				
111	109	0	2	Low-Density Trees				2
485	328	158	0	Mixed Upland Deciduous	72	86		0
111	81	30	0	Northern Hardwood		30		
52	39	5	7	Oak		5	7	
27	27	0	0	Planted Mixed Pines				
55	55	0	0	Red Pine				
9	9	0	0	Upland Mixed Forest				
2	2	0	0	Urban				
3	3	0	0	Water			0	
2,018	1,816	193	9	Total Forested Acres	72	121	7	2
	90%	10%	0%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition				
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified				
Comments: Delay treatment and treat with Stand 3 (aspen stand) in the future.											
	elay treatment and	d treat with Stand 3 (aspen sta	nd) in the	e future.							
2	Pelay treatment and Available	5C: Delay treatment for age/size class diversity or exceptional site quality	nd) in the	e future. Unspecified	Unspecified	Unspecified	Unspecified				
2		5C: Delay treatment for age/size class diversity or	,		Unspecified	Unspecified	Unspecified				

Report 4 – Site Conditions

Compartment: 25

Grayling Mgt. Unit

Colton Behrmann : Examiner Year of Entry: 2021

3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified							
	Comments:													
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified							
	Comments: Current average BA = 112. Hold stand until BA is closer to 120.													
5	Available	2I: Survey needed	72	Unspecified	Unspecified	Unspecified	Unspecified							
	Comments: NW and NE Corne	rs not found during Inventory pr	ocess. Su	urvey request submitted	September 2019.									
67	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified							
	Comments:													
	Johnnerits.													

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Mgt. Unit

Compartment: #Type! Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				

Grayling Mgt. Unit Compartment: 25





Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservation Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for include the 5,847 acre Forest Fire Experiment Station, the 12,00 Area, the Beaver Islands Archipelago Wildlife Research Area (thigh and Hog Islands, all state owned land on Beaver, South For Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Roursery, and over 144,000 acres of Military Lands.	00 acre Houghton Lake Wildlife Research hat includes most of Garden Island, all of ox and North Fox Islands), the Cusino
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effects as aesthetics, habitat, bank stability, timber production, and the	ne unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian ects on water quality and quantity, as well



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed 9	Site	General Comments	
1	4130 -	- Aspen		Poletimb	er Well	60.5	34	111-140	N/A		Pole-sized aspen stand with a very similar composition to Stand 3 (stan	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	to the south). OPIC - FMD: Will be an A6 next YOE. Birch, red maple, oak and other mixed hdwds present. Found evidence of bear	
Е	Bigtooth Aspen	84	Pole	6	34	Wit	ch Hazel	Low	5 - 10 feet	Tall Shrub	hunting within stand.	
Black	k/Red (Hybrid) Oak	10	Pole	6								
2	4123 -	Red Oak		Sawtimbe	er Well	9.7	105	81-110	N/A		Mature oak stand with varying understory regeneration. The eastern end	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	contains more maple and aspen regeneration, and also has a lower bas area. Stand is on the lower end of the 75-100% canopy cover. OPIC -	
	Red Maple	15	Pole/Log	8		R	ed Oak	Low	< 5 feet	Sapling	FMD: This small stand serves as a retention area. Very nice looking	
	Red Oak	84	Log	14	105	Re	d Maple	High	10 - 20 feet	Sapling	oak. Oak seedling present but majority are under 1 foot tall. Some bird	
						Wit	ch Hazel	Low	5 - 10 feet	Tall Shrub	is present, rolling topo, decent shrub component in understory. Aspen removed from stand in 1985. Old SI used	
							Beech	Trace	10 - 20 feet	Sapling	Temoved from stand in 1965. Old Si used	
						Pa	oer Birch	Trace	10 - 20 feet	Sapling		
						Bigto	oth Aspen	Medium	10 - 20 feet	Sapling		
3	4130 -	- Aspen		Poletimb	er Well	41.4	44	111-140	N/A		Good quality aspen stand that is pole-sized, with some log trees.	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Diameter can vary depending where you are at in the stand. Recommet to hold 10, and cut with stand 4 to help regeneration. OPIC - FMD:	
Black	k/Red (Hybrid) Oak	7	Pole/Log	8		Black/Re	d (Hybrid) Oak	Low	< 5 feet	Sapling	Pockets of bigger timber mixed with A3. Quality and size varies. Plenty	
Е	Bigtooth Aspen	90	Pole	8	44	Wit	ch Hazel	Low	5 - 10 feet	Tall Shrub	of red maple in stand but it is not yet merchentable.	
					' [Re	d Maple	Medium	>20 feet	Sapling		
4	4123 -	Red Oak		Sawtimbe	er Well	5.4	100	111-140	N/A		Mature oak stand with some decay in the tops. Pole-sized red maple is	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	filling in the canopy. Should treat when adjacent aspen stand is cut. OPIC - FMD: Stand sits on a ridge. A good looking stand w/ good	
	Red Maple	15	Pole	9		Wit	ch Hazel	Medium	5 - 10 feet	Tall Shrub	quality oak. Treat with surrounding aspen stand in the future. Potentia	
	Red Oak	83	Log	14	100	Re	d Maple	Medium	>20 feet	Sapling	erosion concerns with terrain.	
						R	ed Oak	Low	5 - 10 feet	Sapling		
5	4130 -	- Aspen		Sapling	Well	82.0	19	Immature	N/A		A patchy aspen stand. The canopy cover is closer to 75%. There are	
	Canopy Species	% Cover	Size Class	DBH	Age						open pockets of cherry brush, as well as clumps of pole-sized white pin	
	White Pine	8	Pole	8							OPIC - FMD: Salvaged under contract #036-99-01, Central Salvage	
	k/Red (Hybrid) Oak	10	Sapling	3							block (wind event 99). Completed spring/summer of 2000. Tons of	
Black											cherry and shrubs. The eyes pick up mostly on the aspen and birch.	
Black	Paper Birch	10	Sapling	3							Maple, ash, oak, and mixed pine also present. The regen is patchy - A	



Ganopy Species % Cover Size Class DBH Age Red Pine	ou walk into the stand. Ind throughout the There are areas of A2 east where pine and is a large diameter sent in this stand.
Red Pine 8 XLog 22 Hawthorn (spp.) Low 5 - 10 feet Tall Shrub Black/Red (Hybrid) Oak 20 Pole 6 White Pine Low Variable Bigtooth Aspen 46 Pole 7 34 Medium 5 - 10 feet Tall Shrub Red Pine Age Pine N/A Sapling Medium 72.4 17 Immature N/A Aspen stand with open patches where cherry and although most of the oak saplings are shorter than is also present in lower numbers.	There are areas of A2 east where pine and s a large diameter sent in this stand.
Red Pine 8 XLog 22 Hawthorn (spp.) Low 5 - 10 feet Tall Shrub Stand. Continue to hold as the stand matures. Red Maple 20 Pole 6 Witch Hazel Medium 5 - 10 feet Tall Shrub Stand. Continue to hold as the stand matures. Witch Hazel Medium 5 - 10 feet Tall Shrub Stand is an A4 going on an A6. And M3 also. There is about 10 acres in the north oak were left. This 2 aged portion of the stand has overstory with an A4 understory. Birch is also presome mixed pine can be found in the understory and although most of the oak saplings are shorter than is also present in lower numbers. Red Pine Low Variable Sapling Sapling White Pine Low >20 feet Pole White Pine Low >20 feet Pole N/A Aspen stand with open patches where cherry and a common. There is a good mix of oak and red maple although most of the oak saplings are shorter than is also present in lower numbers.	There are areas of A2 east where pine and s a large diameter sent in this stand.
Black/Red (Hybrid) Oak 20 Pole/Log 9 White Pine Low Variable Sapling Bigtooth Aspen 46 Pole 7 34 Red Pine Low >20 feet Pole This stand is an A4 going on an A6. and M3 also. There is about 10 acres in the north oak were left. This 2 aged portion of the stand has overstory with an A4 understory. Birch is also pressome mixed pine can be found in the understory at Canopy Species % Cover Size Class DBH Age Red Maple 18 Sapling/Pole 4 Black/Red (Hybrid) Oak 23 Sapling/Pole 4 Black/Red (Hybrid) Oak 23 Sapling/Pole 4	east where pine and s a large diameter sent in this stand.
Bigtooth Aspen 46 Pole 7 34 Red Pine Low >20 feet Pole and M3 also. There is about 10 acres in the north oak were left. This 2 aged portion of the stand has overstory with an A4 understory. Birch is also pressome mixed pine can be found in the understory at Canopy Species % Cover Size Class DBH Age Red Maple 18 Sapling/Pole 4 Black/Red (Hybrid) Oak 23 Sapling/Pole 4 White Pine Low Variable Sapling and M3 also. There is about 10 acres in the north oak were left. This 2 aged portion of the stand has overstory with an A4 understory. Birch is also pressome mixed pine can be found in the understory at common. There is a good mix of oak and red maple although most of the oak saplings are shorter than is also present in lower numbers.	east where pine and s a large diameter sent in this stand.
Bigtooth Aspen 46 Pole 7 34 Red Pine Low >20 feet Pole oak were left. This 2 aged portion of the stand has overstory with an A4 understory. Birch is also pressome mixed pine can be found in the understory at Canopy Species % Cover Size Class DBH Age Red Maple 18 Sapling/Pole 4 Black/Red (Hybrid) Oak 23 Sapling/Pole 4	s a large diameter sent in this stand.
7 4131 - Aspen, Oak Sapling Medium 72.4 17 Immature N/A Aspen stand with open patches where cherry and common. There is a good mix of oak and red maple although most of the oak saplings are shorter than is also present in lower numbers. Some mixed pine can be found in the understory and accommon. There is a good mix of oak and red maple although most of the oak saplings are shorter than is also present in lower numbers.	
Canopy Species % Cover Size Class DBH Age Red Maple 18 Sapling/Pole 4 Black/Red (Hybrid) Oak 23 Sapling/Pole 4 Common. There is a good mix of oak and red maple although most of the oak saplings are shorter than is also present in lower numbers.	
Red Maple 18 Sapling/Pole 4 slack/Red (Hybrid) Oak 23 Sapling/Pole 4	
Red Maple 18 Sapling/Pole 4 is also present in lower numbers. Black/Red (Hybrid) Oak 23 Sapling/Pole 4	
Black/Red (Hybrid) Oak 23 Sapling/Pole 4	
ODIC FMD, Timber cole # 70 000 04 04 Croph	alm Dood Ook Colo
Bigtooth Aspen 50 Sapling/Pole 4 17 OPIC - FMD: Timber sale # 72-009-01-01 Granho was cut by Georgia-Pacific in 2002. Trees were le	
Open grassy areas throughout. Mixed pine and ho Some stump sprout oak present. Browse evident.	dwds also present.
8 4130 - Aspen Poletimber Well 24.1 43 141-170 N/A Average quality aspen stand with smaller diameter the eastern end. There are a few kettle holes that v	
Canopy Species % Cover Size Class DBH Age Sub-Canopy Species Density Avg. Height Size when the stand is harvested.	would fleed bullered
Red Maple 11 Pole 6 Red Maple Low 10 - 20 feet Sapling	
Bigtooth Aspen 84 Pole/Log 8 43 Witch Hazel Medium 5 - 10 feet Tall Shrub OPIC - FMD: Hilly. Average quality aspen. Look a unmerchantable.	at in 10. Still areas of
9 4125 - Black, N. Pin Oak Sawtimber Well 8.9 99 81-110 N/A Mature oak stand that is continuing to decline. Rec	
Canopy Species % Cover Size Class DBH Age Sub-Canopy Species Density Avg. Height Size are filling canopy gaps, with a diverse understory are filling canopy gaps.	iso starting to vilv by deer
Black/Red (Hybrid) Oak 83 Log 11 99 White Pine Medium >20 feet Sapling	
Red Maple 10 Pole/Log 9 Black/Red (Hybrid) Oak Medium 10 - 20 feet Sapling OPIC - FMD: Poor understory. Majority of oak in p	poor condition. Leave
Beech Low 10 - 20 feet Sapling lov Visual II stand 26 is being treated.	
Witch Hazel High 5 - 10 feet Tall Shrub	
D 114 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Red Maple Medium >20 feet Pole	
Red Maple Medium >20 feet Pole Red Pine Low 5 - 10 feet Sapling	
Red Pine Low 5 - 10 feet Sapling 10 42141 - Planted Mixed Pine, Mixed Sapling Well 26.6 24 Immature N/A Patchy red pine plantation that is being heavily out and jack pine in areas. Some pockets of pure aspectations of the process of pure aspectations of the process of the pr	en. Oak, red maple and
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Red Pine Low 5 - 10 feet Sapling 10 42141 - Planted Mixed Pine, Mixed Sapling Well Deciduous Sapling Well 26.6 24 Immature N/A Patchy red pine plantation that is being heavily out and jack pine in areas. Some pockets of pure aspected process of the sapling Sub-Canopy Species Density Avg. Height Size Red Pine 51 Sapling/Pole 4 24 Black/Red (Hybrid) Oak Low 5 - 10 feet Sapling	en. Oak, red maple and pine due to the other
Red Pine Low 5 - 10 feet Sapling 10 42141 - Planted Mixed Pine, Mixed Sapling Well Deciduous 26.6 24 Immature N/A Patchy red pine plantation that is being heavily out and jack pine in areas. Some pockets of pure aspected cherry are also common. Overall poor quality red previsiting species overtopping in areas.	en. Oak, red maple and bine due to the other ng in many areas. Jack



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments				
11	4110 - Sugar M	laple Assoc	ciation	Sawtimb	er Well	9.1	99	81-110	N/A		Northern hardwoods stand with some oak mixed into the canopy. Any				
	Canopy Species	pecies % Cover Size Class DBH Age Sub-Canopy Species Density Avg. Height Size due to		mature ash are now snags. Will feature the overstory as the covertype due to unfavorable conditions in the understory, and high canopy cover											
	Sugar Maple	80	Log	10	99	Iro	onwood	High	10 - 20 feet	Sapling	Understory has thick ironwood, with some sugar maple and beech n in. Any oak saplings are being heavily browsed.OPIC - FMD: Portion				
	Red Oak	15	XLog/Log	20		Sug	ar Maple	Medium	10 - 20 feet	Sapling					
						Е	Beech	Low	10 - 20 feet	Sapling	of the stand salvaged after the 99 wind event. Will feature the understor				
						R	ed Oak	Low	< 5 feet	Sapling	as cover type. Oak in the overstory in the soutwest, more northern hdwds in the north and east. Areas of thick ironwood regen. Mixed				
											hdwds and aspen in understory. Ash, beech, basswood, birch also present.				
12	4310 - Pir	ne, Oak Mix	(Sawtimb	er Well	9.0	69	111-140	N/A		A unique natural red pine stand along a narrow ridge and valley. There				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	a heavy mixture of oak in the overstory, as well as red maple filling in ar gaps. Mixed pine, red maple and oak are all in the understory, but the				
	Red Pine	49	Log	11	69	Wh	nite Pine	Medium	Variable	Sapling	oak is being heavily browsed by deer.				
Blac	k/Red (Hybrid) Oak	35	Log/Pole	11		Re	ed Pine	Medium	Variable	Sapling					
	Red Maple	10	Pole/Log	8		Wit	ch Hazel	Medium	5 - 10 feet	Tall Shruk	OPIC - FMD: A valley of natural red pine. A handfull of relic pine prese acting as a seed source. Some white pine also present.				
						Black/Re	d (Hybrid) Oak	Low	< 5 feet	Sapling	double de				
						Е	Beech	Low	5 - 10 feet	Sapling					
						Re	d Maple	Medium	>20 feet	Sapling					
13	4119 - Mixed No	rthern Hard	dwoods	Sawtimb	er Well	37.3	99	81-110	N/A		Mixed northern hardwoods stand. Understory consists of beech, sugar maple and ironwood. The southeast corner contains a larger componen				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	of beech in the overstory and understory. There are multiple kettle holes				
	Red Oak	24	Log	16	99	E	Beech	Medium	10 - 20 feet	Sapling	holding water. Immature ash can be found near drainages leading to				
	Sugar Maple	35	Log	14	99	Wit	ch Hazel	Medium	5 - 10 feet	Tall Shrub	kettle holes. Northern Hardwood thinning in was completed in 2016, the sale number 72-047-2011-01.OPIC - FMD: Thin leaving a residual				
	Basswood	18	Log	16	99	Re	d Maple	Low	>20 feet	Sapling	between 70 and 80. Some areas better stocked than others. There are				
	Red Maple	15	Log	16	99	Pap	oer Birch	Low	>20 feet	Sapling	a few seasonally wet areas found along the bottom of the hilly terrain.				
						Wh	nite Pine	Low	10 - 20 feet	Sapling	Stand transitions into an oak type on top of the hill. Give operations				
						R	ed Oak	Low	< 5 feet	Sapling	within stand quite a bit of weight when marking to avoid residual damage. Majority of terrain is hilly. Tree length operations should not be				
						Sug	ar Maple	Low	>20 feet	Sapling	allowed. This treatment is intended to improve the current timber while				
											providing oportunities for regen to establish in newly created openings.				
											Understory is poorly stocked with beech, ironwood, and sugar maple. Some striped maple present in stand.				
14	4130	- Aspen		Poletimb	er Well	18.3	31	81-110	N/A		Aspen stand that follows a couple of ridges running North/South. Aspen				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	s still smaller diameter, while oak and red maple are larger (10-12" DBH). The stand is still recruiting pole-sized timber into the overstory.				
Blac	k/Red (Hybrid) Oak	10	Log	12			ch Hazel	Medium	5 - 10 feet	Tall Shruk	ן טסחן. The stand is still recruiting pole-sized timber into the overstory.				
			-												
	Red Maple	10	Log	11		Е	Beech	Low	5 - 10 feet	Sapling	OPIC - FMD: Hilly, some of the bottom areas are wet. Pockets with pin oak and maple also present. Aspen has a smaller diameter in the east.				

Low

10 - 20 feet

Sapling

Sapling

harvested along with stand 15.

Hawthorne present. Year of origin is assuming that this stand was

Bigtooth Aspen

78

Black/Red (Hybrid) Oak

Report 7 - Stands

Compartment: 25 Year of Entry: 2021

Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed \$	Site	General Comments						
15	4130	- Aspen	F	Poletimb	er Well	43.2	36	81-110	N/A		Aspen stand with rolling topography. The basal area is patchy in areas						
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	where cherry is more common. Red maple stump sprouts are in the southeastern hill, with red pine log trees along the eastern border. Some						
	Quaking Aspen	75	Pole/Log	9	36	Black/Re	d (Hybrid) Oak	Low	10 - 20 feet	Sapling	areas contain smaller diameter aspen (6 inch DBH). Stand is heavily						
	Bigtooth Aspen	20	Pole/Log	9		Hawt	horn (spp.)	Low	5 - 10 feet	Tall Shrub	used by deer, with browse occurring throughout the stand. Overall a						
						Quak	king Aspen	Medium	10 - 20 feet	Sapling	poorer quality aspen stand. OPIC - FMD: Hilly. Still some unmerchatable aspen throughout. Areas of A3/A4. Red pine present be not consistant. White pine starting to appear in the understory.						
						Blad	ck Cherry	Medium	10 - 20 feet	Tall Shruk							
						WI	nite Pine	Low	10 - 20 feet	Sapling							
16	4130	- Aspen	F	Poletimb	er Well	6.6	42	111-140	N/A		Aspen stand with a mix of red maple and some mixed pine. Overall the						
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	aspen is doing well and could be held if needed. Would be ideal to prescribe along with stands 17, 58 & 57.						
	Bigtooth Aspen	75	Pole/Log	8	42	Wit	ch Hazel	High	5 - 10 feet	Tall Shruk	,						
	Red Maple	18	Pole/Log	8		Re	d Maple	Medium	>20 feet	Sapling	OPIC - FMD: Good looking stand. Narrow. Birch and mixed pine also						
						-	Beech	Low	5 - 10 feet	Sapling	present. An old foundation has been dumped in southern portion of the stand along the powerline. Looks like a small garden has started in the						
											ROW.						
17	4123 -	Red Oak	5	Sawtimb	er Well	5.9	96	141-170	N/A		A mature good quality oak stand with red maple as well. Look at previous						
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	comments on road. OPIC - FMD: Narrow. Good quality oak present. Treat when adjacent aspen stands are ready to be treated. An oil and						
	Red Maple	20	Pole/Log	8		Re	d Maple	High	>20 feet	Sapling	gas easment has recently been created throught the stand. The						
	Red Oak	77	Log	14	96	Wit	ch Hazel	Medium	5 - 10 feet	Tall Shruk	easement requires a gate. A good shrub component in understory. Old SI used.						
						I	Beech	Low	5 - 10 feet	Sapling	Si used.						
18	4111 - S.Maple, Ha	ard Mast As	ssociation S	Sawtimb	er Well	29.8	89	111-140	N/A		Northern hardwoods without the basswood component. There are						
	Canopy Species	% Cover	Size Class	DBF	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	pockets of beech in the northeastern portion of the stand. Ash was seen in low spots, but are mostly all snags now. Overall the stand is moderate						
	Red Oak	15	Log	14		Iro	onwood	Medium	10 - 20 feet	Sapling	to poor form. split tops, cat faces and blowdown can all be found.						
	Beech	15	Pole/Log	9		1	Beech	Medium	5 - 10 feet	Sapling	OPIC - FMD: Above average quality for the unit. The good quality						
	Sugar Maple	64	Log	12	89	Sug	jar Maple	Low	5 - 10 feet	Sapling	trees are outstanding. The poorer quality trees exceed in there area as well (cat faces, broken tops, poor form). Seasonal wet areas found						
				'		Sug	jar Maple	Low	>20 feet	Pole	throughout. These areas contain a smaller diameter component of ash,						
						Hawt	horn (spp.)	Low	5 - 10 feet	Tall Shruk							
19	4130 -	- Aspen	F	Poletimb	er Well	84.6	22	141-170	N/A		Immature aspen stand that is growing well. Some areas are heavier to						
19	Canopy Species	'	Size Class		Age		nopy Species		Avg. Height	Size	the oak and birch component, with traces of red pine saplings.						
	Bigtooth Aspen	68	Pole	5	22		horn (spp.)	Low	5 - 10 feet		OPIC - FMD: About 25' tall. Birch and mixed hdwd present. Old SI used.						
Bla	ck/Red (Hybrid) Oak	15	Sapling/Pole				(117	1									
	, , ,		. 0														

Paper Birch

10

Sapling/Pole

4



Stand	Level 4 Co	over Type	:	Size De	nsity	Acres	Stand Age	BA Range	Managed \$	Site	General Comments		
20	42110 - Plar	nted Red P	ine P	oletimb	er Well	48.9	55	141-170	N/A		Red pine stand with very dense understory. The oak that has not passed		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	browse height is being hit hard. The rows are not straight, and the stand contains many pockets of good aspen regeneration. There is single tree		
	Bigtooth Aspen	12	Pole/Log	8		Re	ed Maple	High	>20 feet	Sapling	mortality throughout the stand, with signs of heavier porky damage in		
	Red Pine	82	Pole/Log	9	55	Black/Re	d (Hybrid) Oal	k Low	< 5 feet	Sapling	areas. Overall a rough looking red pine plantation.		
						Bigto	ooth Aspen	High	10 - 20 feet	Sapling	OPIC - FMD: Hilly with variable quality. Fairly limby and areas of porky		
							Beech	Medium	5 - 10 feet	Sapling	pine damage present. There are open pockets filled with aspen and		
						R	ed Pine	Low	5 - 10 feet	Sapling	mixed hdwds. Portions of this stand were not treated during the last		
						Wit	tch Hazel	Medium	5 - 10 feet	Tall Shrub	prescription. Some wind damage in stand. (old comments) 3rd row thined - Timber sale 72-045-03-01, Second Lake Red Pine. Contract		
					L	Bla	ck Cherry	Medium	10 - 20 feet	Sapling	thined - Timber sale 72-045-03-01, Second Lake Red Pine. Contract held by Bisballe Forest Products, managed by Highland Timber and cu by a third party. Cut in December 2006.		
21	4130	- Aspen	P	oletimb	er Well	94.9	28	Immature	N/A		Large well stocked aspen stand. Very good mix of hardwoods throughout.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	White pine is found in both the understory and overstory. OPIC - FMD: Great looking stand. Plenty of birch and mixed hdwds. About 25'		
	Paper Birch	10	Sapling/Pole	4		Wit	tch Hazel	Medium	5 - 10 feet	Tall Shrub	tall. Seasonal wet areas found within stand. The old skid trails are still		
	Red Oak	10	Sapling/Pole	4					1	'	drivable in some areas. Old SI used.		
	Red Maple	10	Sapling/Pole	4									
	Bigtooth Aspen	60	Pole/Sapling	5	28								
22	4130	- Aspen		Sapling	Well	74.2	26	Immature	N/A		Immature aspen_stand with a small component of oak and red maple		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stump sprouts. There are some areas of larger pole-sized aspen, and also pockets of cherry brush. OPIC - FMD: In transition. Some trees		
	Bigtooth Aspen	93	Sapling/Pole	4	26	Wi	tch Hazel	Medium	5 - 10 feet	Tall Shrub			
						Bla	ck Cherry	Medium	10 - 20 feet	Sapling			
23	4130	- Aspen	S	Sapling N	1edium	49.2	14	Immature	N/A		Immature aspen stand with oak, maple, mixed pine and cherry as well.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	The stand is patchy in places, but is slowly filling in. Expect the aspen to outcompete some of the oak as the stand matures.		
	Bigtooth Aspen	60	Sapling	3	14	Wit	tch Hazel	Low	5 - 10 feet	Tall Shrub	'		
Blad	k/Red (Hybrid) Oak	10	Sapling	3				'			OPIC - FMD: Areas of A3. Stand is patchy with openings and u-types.		
	Red Maple	10	Sapling	3							Stand is primarily aspen and cherry brush but, some red maple and oak also present. Some mixed pine is also starting to establish itself. Old SI		
	Black Cherry	15	Sapling	3							used. (Old comment.) Timber sale 72-008-02-01 Second Lake Aspen.		
											Cut in 2004 by Shawn Muma Forest Products. 0808/2005		
24	4130	- Aspen		Sapling	Well	49.6	14	Immature	N/A		Immature aspen stand that is filling in well. There currently is oak, red naple and cherry mixed in, but the aspen will continue to outcompete		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	some of the oak and red maple competition.		
	Bigtooth Aspen	73	Sapling	2	14	Hawt	horn (spp.)	Low	< 5 feet	Tall Shrub			
	Red Maple	10	Sapling	2							OPIC - FMD: 6 -8' tall. Red maple, oak, and cherry mixed in. The shorter stems that can be reached by the deer are getting hit pretty hard		
Blac	ck/Red (Hybrid) Oak	15	Sapling	2							by browse. Timber sale 72-008-02-01 (Second Lake Aspen). Cut in 2004 by Shawn Muma Forest Products.		



Stan	d Level 4 C	Level 4 Cover Type Size Density Acres Stand Age BA Range		Managed S	Site	General Comments						
25	4130	4130 - Aspen Poletimber Well		38.8	34	111-140	N/A		Aspen stand with mixture of both oak and red maple. Aspen overall is doing well, with pockets of poorer quality timber and a mix of cherry.			
	Canopy Species % Cover Size Class		DBH Age		Sub-Canopy Species		Density	Avg. Height	Size	Southeast corner of stand contains the scrubby oak, cherry and aspen		
	Bigtooth Aspen 80 Pole/Log 9 34		Hawth	Hawthorn (spp.) Low 5 - 1		5 - 10 feet	Tall Shrub	regeneration. Look at next YOE.				
Bla	ck/Red (Hybrid) Oak	8	Pole	7		Witch Hazel		Medium	5 - 10 feet Tall Shrub		OPIC - FMD: A 1 acre island had been left during previous prescription.	
	Red Maple	7	Pole	7		Red	d Maple	High	>20 feet	Sapling	A mix of hdwds and a couple pine. Variable quality but, there is plenty of	
						Black/Red	d (Hybrid) Oak	Medium	10 - 20 feet	Sapling	3 - 4 stick stuff.	
						Wh	ite Pine	Trace	10 - 20 feet	Sapling		
						В	Beech	Medium	5 - 10 feet	Sapling		
						Bigtoo	oth Aspen	Medium	>20 feet	Sapling		
26	4191 - Mixed Upla Co	and Decidu onifer	ous with	Poletimb	er Well	8.6	42	81-110	N/A		In the past it was a jack pine dominated canopy. As the stand ages the compostion is switching to a red maple canopy, with some jack pine and	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	larger aspen still hanging on. Expect the red maple component to continue to grow and gain canopy cover. The stand gradually slopes	
	Jack Pine	28	Pole/Log	9		Black/Red	d (Hybrid) Oak	Medium	10 - 20 feet	Sapling	down and away from Oak Lake Rd, but should not restrict harvest in the	
	Red Maple	40	Pole	8	42	Red	d Maple	High	>20 feet	Sapling	future. Continue to hold as the maple grows.	
	Bigtooth Aspen	28	Log	12		Hawth	orn (spp.)	Low	5 - 10 feet	Tall Shrub	OPIC - FMD: There were higher quality ground cover indicators (trillium	
						В	Beech	Trace	5 - 10 feet	Sapling	and sapsparilla) but bb also present. I agree with the old comments.	
											The JP is falling apart and mixed hardwoods, red pine, and white pine filling in well. Best bet is to let the stand transition on its own. (old comments) Because of steep slopes do not harvest. Allow JP to die stand to convert to M/U mix.	
27	500	- Water		Nonsto	cked	2.7			No		OPIC - FMD: SECOND LAKE	
28	4199 - Other Mixe	- Other Mixed Upland Deciduou		Sawtimber Well		71.9 100 111-140		N/A		Mixed stand of good quality oak and aspen. There is a small component of sugar maple in the pole class throughout the stand. The eastern side		
	Canopy Species		Size Class	-			Sub-Canopy Species		Avg. Height	Size	of the stand contains more of a mixed hardwoods. OPIC - FMD: Wet	
	Red Oak	35	Log	14	100		ch Hazel	Medium	5 - 10 feet	Tall Shrub	areas in the stand. Hilly. Excellent quality oak and aspen. Some pocket	
	Bigtooth Aspen	25	Log	14			ar Maple	Low	10 - 20 feet	Sapling	with poorer quality timber but, overall quality is high. Mixed sawlog pine here and there. Better quality northern hdwds in the northern portions of	
	Red Maple	18	Pole/Log				ed Oak	Low	5 - 10 feet	Sapling	the stand. Hold treatment for 10.	
	Sugar Maple	14	Log	10			nwood	Low	10 - 20 feet	Sapling		
							d Maple	Low	10 - 20 feet	Sapling		
						Wh	ite Pine	Low	10 - 20 feet	Sapling		
29	4199 - Other Mixe	d Upland D	eciduous	Sawtimber Well		85.8	99	111-140	N/A		Better quality oak stand with aspen showing up in pockets. Red maple is	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	common in both the overstory, and pole-sized. There are a few large red pine than can be found towards the northeastern side of the stand than	
	Bigtooth Aspen	28	Log	11		Wh	ite Pine	Low	5 - 10 feet	Sapling	run North/South. Can confirm it is like walking on a giant golf ball. There	
	Red Maple	20	Pole/Log	9		Red	d Maple	Medium	>20 feet	Sapling	are kettle holes in the stand that would be limited to harvest. Directly East	
	Red Oak	43	Log	12	99	Wito	ch Hazel	High	5 - 10 feet	Tall Shrub	of stand 414 there is a large kettle hole that holds water. OPIC - FMD: Very steep hills with narrow ridges (like walking on a giant golf ball).	
				·		В	Beech	Low	10 - 20 feet	Sapling	Great looking oak. The aspen is in pockets. Erosion and equipment	
						Re	ed Oak	Medium	< 5 feet	Sapling	limitations are concerns. Wet areas at the bottoms of the hills.	



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
30	4139 - Aspen,	Mixed Deci	duous	Sapling	y Well	104.5	27	Immature	N/A		Immature aspen stand (20-25' tall) with a good mix of sugar maple, oak
	Canopy Species	% Cover	Size Class	DBH	Age						and birch. There is ash in the stand, but it is continuing to die out. Any oak below browse height is being hit hard by deer. The aspen DBH varies
	White Ash	10	Sapling	3							depending on location in the stand. OPIC - FMD: Stand is a mix of
	Sugar Maple	10	Sapling	4							aspen and hdwds. Service berry shrubs are common throughout. Area
	Red Oak	10	Sapling/Pole	9 4							where the hdwds are dominant. Ash present throughout. Some porky damage. Old SI used. (old comments) PVT. FENCE MAY BE SOUTH
	Paper Birch	10	Sapling	3							1 CHAIN OF PROPER LINE
	Bigtooth Aspen	45	Sapling/Pole	9 4	27						
	Ironwood	10	Sapling	3							
31	4111 - S.Maple, Ha	ard Mast As	ssociation	Sawtimb	er Well	34.5	99	81-110	N/A		Northern hardwoods stand. The west end contains more sugar maple
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	with larger pockets of ironwood in the understory. Larger oak starts to become more common in the central and eastern part. OPIC - FMD:
	Sugar Maple	60	Log	10	99	Ir	onwood	Medium	>20 feet	Sapling	Stand last thinned in 1991. Sm and PB dominant. Sugar maple and
	Basswood	15	Log	11			Beech	Low	10 - 20 feet	Sapling	ironwood make up majority of understory. Some wind damage. Pockets
	Red Oak	25	XLog/Log	20		Suç	gar Maple	Medium	>20 feet	Sapling	of M3 created by wind events.
32	4199 - Other Mixe	d Upland D	eciduous I	Poletimb	er Well	25.2	34	81-110	N/A		Stand has a mix of aspen, red maple and some oak. Aspen and red
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	maple are dominant. Same age as Stand 1 to the west, but has more of a hardwood component. OPIC - FMD: Rm, oak, aspen, ash. Decent
	Red Maple	30	Pole/Sapling	j 5		Bla	ck Cherry	Low	5 - 10 feet	Sapling	looking oak stump sprouts present. Where there is aspen it is doing
	Bigtooth Aspen	38	Pole	7	34	Wi	tch Hazel	Medium	5 - 10 feet	Tall Shruk	
Blad	ck/Red (Hybrid) Oak	25	Pole/Sapling	5							
33	3303 - Mixed Lo	3303 - Mixed Low Density Trees			cked	5.4	99		No		This stand is a large bowl that contains low quality timber in the areas
						Sub-Ca	nopy Specie	es Density	Avg. Height	Size	where it has regenerated. There are a few pockets of aspen and jack pine, but do not expect them to fill in any more of the grassy opening.
						Bigto	ooth Aspen	Medium	>20 feet	Log	Patchy scrub oak and cherry can be found throughout the stand as well.
						Bla	ck Cherry	Medium	10 - 20 feet	Tall Shrub	ODIO TAR ALCHA () A A A A A A A A A A A A A A A A A
						North	ern Pin Oak	Medium	10 - 20 feet	Tall Shruk	OPIC - FMD: A big hole w/ scrub cherry, mixed pine and oak. Was typed out as a "G" in previous inventory. Used adjacent stand 68 for SI and
						Ja	ack Pine	Medium	>20 feet	Pole	origin.
35	790 - Other Bare/	Sparsely V	egetated	Nonsto	cked	0.9			No		Riverside Energy LLC.OPIC - FMD: DTE Gas and Oil Co State Elmer A1-14. Knapp weed present.
36	4199 - Other Mixe	d Upland D	eciduous	Sapling	y Well	16.6	17	Immature	N/A		An immature mixed deciduos stand with scattered overstory oak left. Red
	Canopy Species	% Cover	Size Class	DBH	Age						maple is the most dominant species in the sapling layer, with a healthy mix of oak and aspen. Red and white pine can be found in the residual
	Red Maple	35	Sapling/Pole	3	17						overstory and also trace individuals in the sapling layer. Overall the stand
Blad	ck/Red (Hybrid) Oak	15	Log	15							is filling in well and has a good mix of species.
Blad	ck/Red (Hybrid) Oak	15	Sapling	3							OPIC - FMD: Little oak regen found. Patchy aspen and red maple regen
	Bigtooth Aspen	24	Sapling	2							with cherry brush and open areas. Browse evident. Hilly stand. Some areas with good down woody debris. Timber sale cut in fall 2002 72-010-01-01. Old SI used. MCCCT Trail in stand, and it borders the snowmobile trail.

											DNR	
Stand	Level 4 Co	over Type	:	Size Der	nsity	Acres	Stand Age	BA Range	Managed \$	Site	General Comments	
38	4130 -	- Aspen		Sapling	Well	51.6	17	Immature	N/A		Overall a very mixed stand with aspen being the dominant sapling type.	
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	Red maple, oak, beech, mixed pine and cherry are also recruiting in. Previous comments mention patches, that are now starting to fill in with	
Е	Bigtooth Aspen	68	Sapling	3	17	WI	nite Pine	Low	5 - 10 feet	Sapling	jack pine, cherry and red maple. There are pockets of white pine and	
N	orthern Pin Oak	10	Sapling	2							occasional red pine in the overstory. OPIC - FMD: My survey did not produce the residual oak stated in old OI. There are areas of A3 - patchy	
											with open u-type areas. A small ammount of Stump sprout oak present(more than in stand 36). Trees were left along the cycle trail. Scattered pine. Hilly. Old SI used. Timber sale # 72-008-01-01 Hill Road Oak. Sale was cut by Georgia-Pacific in 2002.	
39	4199 - Other Mixed	d Upland D	eciduous F	Poletimbe		73.6	17	Immature	N/A		The understory is now well stocked with aspen, red maple and some oak	
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	canopy cover. Some of the oak will continue to recruit, but most has	
	k/Red (Hybrid) Oak	30	Log	14		Hawt	horn (spp.)	Low	5 - 10 feet	Tall Shrul	either been browsed or outcompeted by the red maple and aspen.	
Black	k/Red (Hybrid) Oak	10	Sapling	3		Wit	ch Hazel	Medium	5 - 10 feet	Tall Shrul	OPIC - FMD: The objective of oak management will not succeed. It is	
	Red Maple	18	Sapling/Pole								currently pockets of A3 and M3. Some stumps sprout oak is present and	
E	Bigtooth Aspen	35	Sapling	3	17						will still be a component of the stand. Red and whit pine of various sizes found throughout. There is a big hole along the pipeline access that	
42	41 30 - Aspen		Sapling Well		12.3 26 Immature		N/A		30% crown cover cut to regenerate oak. May have to follow up with prescribed burn. Stand was closed June 2004. Will need to check regeneration next YOE. Exactly how previous inventory notes explain. Immature aspen in a bow			
	Canopy Species	% Cover	Size Class	DBH Age		Sub-Ca	Sub-Canopy Species		Avg. Height Size		\neg with jack pine and white pine at the bottom. More oak saplings can be	
	Bigtooth Aspen	86	Sapling	3	26		ch Hazel	es Density Low	5 - 10 feet	Tall Shrul	found on the eastern end adjacent to stand 29.	
	<u> </u>					Hawt	horn (spp.)	Trace	5 - 10 feet	Tall Shrul	OPIC - FMD: Used old SI. Aspen in a bowl. 16 - 20' tall. Pine, misc	
										1	hdwds and cherry present.	
45	45 4191 - Mixed Upland Deciduous with Sawtimber Conifer						99	111-140	N/A		Poor quality oak stand with a large component of better quality bigtooth aspen and red maple. Quite a mixed understory, with heavy browse on	
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	any oak saplings that try to recruit. There is a valley in the western end of the stand that contains natural red pine. The oak is continuing to decline.	
	Red Pine	15	Log	13		Wit	ch Hazel	Medium	5 - 10 feet	Tall Shrul	the starte that contains hateren rea pine. The start is containing to assume.	
Black	k/Red (Hybrid) Oak	39	Log	13	99	WI	nite Pine	Low	>20 feet	Sapling	OPIC - FMD: This stand has been split in two. This southern portion is	
	Red Maple	8	Pole/Log	9			d Maple	Medium	>20 feet	Sapling	being left as a visual buffer along hill road, the snowmobile trail, and the MCCCT trail. Very hilly. Some mixed pine starting to show up in the	
Е	Bigtooth Aspen	30	Log	12		Black/Re	d (Hybrid) Oa	ak Low	< 5 feet	Sapling	understory. See stand 145 for additional comments.	
						I	Beech	Low	5 - 10 feet	Sapling		
						R	ed Pine	Low	10 - 20 feet	Sapling		
					T							



Stand	Level 4 C	Level 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		General Comments										
47	42110 - Planted Red Pine			Sawtimb	er Well	6.3	55	111-140	N/A		Area shows similar characteristics to Stand 20 (red pine plantation to the			
	Canopy Species % Cover Size Class DBH Age		Sub-Car	nopy Species	Density	Avg. Height	Size	south). Red pine is moderate quality. Understory is thick with maple, and thick hawthorn in areas.OPIC - FMD: Areas of failed plantation.						
	Red Pine	97	Log	12	55	Re	d Maple	High	5 - 10 feet	Sapling	Hilly. Rows seem to wonder. Areas of A3 understory, other areas that			
	-				·	Bigto	Bigtooth Aspen		10 - 20 feet	Sapling	are brushy (old comments) 3rd row thinned. Timber sale 72-045-03-			
						Е	Beech	Low	5 - 10 feet	Sapling	01, Second Lake Red Pine. Cut in December 2006. Stand is now R6.			
						Blac	k Cherry	Low	10 - 20 feet	Sapling				
						Hawth	norn (spp.)	Medium	5 - 10 feet	Tall Shrub				
						Black/Red	d (Hybrid) Oak	Medium	< 5 feet	Sapling				
48	4130	- Aspen		Sapling	Well	41.9	14	Immature	N/A		Dense immature aspen stand with a smaller amount of oak and red			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	maple. Heavier aspen component than adjacent stand 19. There is beaver activity in the northern part of the stand. OPIC - FMD: Hilly,			
	Bigtooth Aspen	90	Sapling	3	14	Wite	ch Hazel	Low	5 - 10 feet	Tall Shrub	with patchy regen. Cherry, oak, red maple also present. Open u-type			
	Red Maple	8	Sapling	2		Hawth	norn (spp.)	Low	5 - 10 feet	Tall Shrub	areas also. Majority of stem 5 - 10' tall. Timber sale 72-008-02-01			
											(Second Lake Aspen. Cut by Shawn Muma Forest Products in 2004.			
55	4131 - A	spen, Oak		Sawtimb	er Well	7.5	66	81-110	N/A		Mix of an aspen/oak stand on the western half, with oak and red maple			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	dominant on the eastern half. Good quality oak, with large mature asper West side contains steeper slope heading down to stand 9 (young A3).			
	Red Maple	21	Pole/Log	8		Wh	ite Pine	High	>20 feet	Sapling	Mature timber, but slope will play a factor in operability. OPIC - FMD:			
	Red Oak	30	Log	14	91	Re	Red Maple		10 - 20 feet	Sapling	Looks like an oak stand from the road but, my plots picked up the asy			
	Bigtooth Aspen	45	Log	10	66	Е	Beech	Low	5 - 10 feet	Sapling	too. Majority of aspen is in the south 1/2. This stand is serving as a visual buffer for a big final harvest in the adjacent southern compartmen			
						Hawth	norn (spp.)	High	5 - 10 feet	Tall Shrub	, 100an 2an 3 101 a 21g man 11an 100 m 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1			
						Northe	rn Pin Oak	Low	>20 feet	Sapling				
						Wite	ch Hazel	High	5 - 10 feet	Tall Shrub				
57	4199 - Other Mixe	d Upland D	eciduous	Sawtimb	er Well	1.5	96	111-140	N/A		Overall a good quality oak stand with red maple and aspen spread throughout. The stand is mature and should be prescribed with the			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Density Avg. Height Size		adiacent stands to the south.			
	Red Maple	25	Pole/Log	9		Wite	ch Hazel	Medium	5 - 10 feet	Tall Shrub				
	Red Oak	57	Log	13	96	Е	Beech	Low	5 - 10 feet	Sapling	OPIC - FMD: Did not visit in 2009. Narrow.			
	Bigtooth Aspen	18	Log	13		Re	d Maple	Medium	>20 feet	Sapling				
						Re	ed Oak	Medium	5 - 10 feet	Sapling				
58	4130	- Aspen		Poletimber Well		3.5	42	111-140	N/A		Well stocked healthy aspen stand with a red maple component. Consider			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	prescribing with adjacent stands. OPIC - FMD: Good looking stand. Narrow. Treat with adjacent oak stands in 10 yrs. Excellent understory			
	Red Maple	10	Pole	7		Wite	ch Hazel	High	5 - 10 feet	Tall Shrub	mast shrubs.			
	Bigtooth Aspen	82	Pole	8	42	Е	Beech	Low	5 - 10 feet	Sapling				
	Red Oak	8	Pole	8		Re	d Maple	Medium	>20 feet	Sapling				
						Re		Medium	>20 feet	Sapling				

Compartment: 25 Year of Entry: 2021



stand	Level 4 Co	ver Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
65	4199 - Other Mixed	4199 - Other Mixed Upland Deciduous			/ledium	149.3	19	Immature	N/A		Immature aspen with a larger mix of beech and sugar maple. Right now
	Canopy Species	% Cover	Size Class	DBH	Age						the stand is patchy (50-75% canopy cover), but may continue to fill in as the stand matures. More oak can be found on top of the ridges running
	Ironwood	14	Sapling	3							East/West. Ash is also present, but continuing to die.
	Beech	10	Sapling	3							·
	Paper Birch	10	Sapling	3							OPIC - FMD: The eyes pick up on the aspen but mixed hdwds present. Several areas of brush or solid iron wood. A couple pockets with bigger
	Bigtooth Aspen	35	Sapling	3	19						timber. (old comments) Salvage area - tornado of 1999. Timber sale
	Sugar Maple	10	Sapling	2							#038-99-02, East Salvage block. Completed the spring of 2000.
	Red Oak	10	Sapling	3							
67	7 4125 - Black, N. Pin Oak		Dak	Sawtimb	er Well	6.7	6.7 99		N/A		Mature oak ridge that runs along Second Lake shoreline. The understory
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Densit	y Avg. Height	Size	contains quite a bit of hawthorn, mainly near the transition edge to stand 48. Could not get an accurate age on the oak.
	Red Maple	30	Log	12			horn (spp.)	High		Tall Shrub	
3la	ck/Red (Hybrid) Oak	65	Log	17	99	Wit	tch Hazel	Mediu	m 5 - 10 feet	Tall Shrub	OPIC - FMD: Did not visit in 2009. No treatment zone along Second Lak
						Wh	hite Pine	Low	5 - 10 feet	Sapling	
						Re	ed Maple	Low	5 - 10 feet	Sapling	
						Northe	ern Pin Oak	Low	< 5 feet	Sapling	
						Beech		Low	5 - 10 feet	Sapling	
8	330 - Low-D	ensity Tre	ees	Nonsto	cked	57.4	0	Unspecifie	d 412 - Oak	Types	Stand failed to pass the natural regeneration check. Aspen saplings are averaging about 6' tall, where present. The red maple height is not consistent, some has reached 6' while other sprouts cannot make it pas 2'. The oak is heavily browsed and none were found over 3'. Sale was cut in winter of 2016. The sale # is 72-033-11-01. Sale well
											stocked aspen under 3 feet present.
											OPIC - FMD: Illegal fuel wood cutting throughout. Hilly! Mixed hdwds and pine also present. Stand is in decline. Recommend a final harvest w/ reserves. Treat north of the trails. Give a 100' buffer from the MCCC trail and treat every thing to the north. Include the southern portion in the proposal and use it as retention. Leave a couple healthy trees scattered throughout the harvest area for vertical structure (favor oak or pine). The management objective is a moderate to fully stocked stand of natural regeneration containing an oak component along with aspen, mixed pin and northern hdwd species. Natural regeneration that meets minimum stocking with an oak component will be a success. Watch for erosion during operations. Excluded areas may impact over all sale acreage.

invasive species spread.)

(old comments) Hilly stand. Oak beginning to die, but should hold until 2011. (pre-review - leave shade trees around well sites to help combat



Stand	d Level 4 C	Level 4 Cover Type		Size Density	Acres	Stand Age	BA Range	Managed	Site	General Comments	
70	4123 -	Red Oak		Sawtimber Wel	14.9	105	141-170	N/A		Mature oak stand with aspen and maple mixed. Some white pine in the understory, mainly in the eastern side. OPIC - FMD: White pine	
	Canopy Species	% Cover	Size Class			nopy Species	Density	Avg. Height	Size	starting to establish in the understory. Good looking oak. Leave this	
	Red Maple	15	Pole/Log	9		hite Pine	Medium	10 - 20 feet	Sapling	narrow oak ridge as is for now. Some fairly decent sugar maple and ash	
	Bigtooth Aspen	20	Log	13	R	led Oak	Medium	< 5 feet	Sapling	too. Some tornado damage. These areas are opend up. In the SE corner some trees were salvaged at the same time as stand 69 was cut	
	Red Oak	60	Log	13 105		tch Hazel	Low	5 - 10 feet	Tall Shrub	under contract #036-99-01	
						gar Maple	Low	10 - 20 feet	Sapling		
					Bigto	ooth Aspen	Low	10 - 20 feet	Sapling		
145	330 - Low-I	Density Tre	es	Nonstocked	29.1	0 (Unspecified	412 - Oak	Types	Stand failed to pass the natural regeneration check. Aspen saplings are averaging about 6' tall, where present. The red maple height is not consistent, some has reached 6' while other sprouts cannot make it past 2'. The oak is heavily browsed and none were found over 3'.	
										Stand was final harvested in winter of 2016. Sale number was 72-033-11-01. The stand has good aspen regeneration but does not meet 3 feet in height minimum to be counted yet.	
										OPIC - FMD: Final harvest w/ reserves. Use islands totaling 1-3 acres as retention to address visual concerns along Snowmobile trail. Management objective is oak but, will accept a mixed moderately stocked stand of aspen, pine, and mixed hdwds containing an oak component. Majority of this stand is old stump sprout regen. NE corner of stand has jp and aspen. The aspen should respond well to the harvest, some natural jack pine reproduction is expected. Erosion potential fairly high.	
400	310 - Herbac	eous Oper	lland	Nonstocked	1.4			Managed C	Opening	OPIC - FMD: Small opening. Found an FTP for opening maintenance submitted by wildlife in the 80's.	
401	310 - Herbac	eous Oper	ıland	Nonstocked	1.8			Managed Opening		OPIC - FMD: Small opening. Found an FTP for opening maintenance submitted by wildlife in the 80's.	
402	330 - Low-l	Density Tre	ees	Nonstocked	11.3			No		A hilly opening with short and poor quality timber. There are several	
					Sub-Ca	nopy Species	Density	Avg. Height	Size	pockets of aspen spread out through the large opening with cherry mixed in. Heavy wildlife use.	
					Qual	king Aspen	Medium	>20 feet	Pole		
					Bla	ck Cherry	Medium	10 - 20 feet	Tall Shrub	OPIC - FMD: Looks to be filling in with brush and saplings from the	
					Black/Re	d (Hybrid) Oal	k Low	10 - 20 feet	Sapling	photos. Did not visit stand this YOE.	
					Ja	ack Pine	Low	10 - 20 feet	Pole		
403	330 - Low-I	Density Tre	es	Nonstocked	6.0		Immature	No		Grassy bowl with young aspen surrounding. It is filling in on the perimeter with scrubby aspen and cherry. The bowl is close to the 25% canopy	
						nopy Species		Avg. Height	Size	closer overall. There is heavy browse on any oak saplings.	
						king Aspen	Medium	>20 feet	Pole	OPIC - FMD: Grassy area along ORV trail. Starting to fill in with u-types.	
						ed Pine	Trace	>20 feet	Log		
						ck Cherry	Medium	10 - 20 feet	Tall Shrub		
						d (Hybrid) Oal		10 - 20 feet	Sapling		
						ack Pine	Low	10 - 20 feet	Pole		
					W	hite Pine	Low	10 - 20 feet	Sapling		

Report 7 - Stands



Stand	Level 4 Cover Type	Size Density	Acres Stand Age E	BA Range	Managed S	Site	General Comments			
404	3303 - Mixed Low Density Trees	Nonstocked	2.2	Immature	No		Multiple clumps of scrubby aspen and mixed pine in a bowl. Cherry is			
			Sub-Canopy Species	Density	Avg. Height Size		sporatic in the stand. Overall it is on the higher end of 0-25% canopy cover. OPIC - FMD: Some aspen and mixed pine. Looks like a bit of			
			Quaking Aspen	Medium	>20 feet	Pole	knapp weed too. Some restoration efforts/stabilization efforts. Misc 10			
			Red Pine	Low	>20 feet	Pole	BA or so.			
			White Pine	Low	>20 feet	Pole				
			Black Cherry	Low	10 - 20 feet	Sapling				
			Jack Pine	Low	>20 feet	Pole				
405	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0		No		Breit Burn OPIC - FMD: Terra Energy St. Elmers 5-3HDL. Knapp weed present.			
406	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.2		No		Breit Burn Operating OPIC - FMD: Terra Energy State. Elmers C3-3HDL. New well, recently planted grass. 2 wells on site.			
407	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.8	Immature	No		breit burn operations OPIC - FMD: Terra Energy State Elmers 14-3. Some knapp weed present -good grass areas too.			
408	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.3		No		OPIC - FMD: Atlas Gas and Oil Co State Elmer A3-10. Some knapp weed present			
409	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.6		No		riverside energy LLCOPIC - FMD: Atlas Gas and Oil Co State Elmer 4-10. Some knapp weed present. Cycle trail runs through pad.			
410	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		No		riverside energy LLCOPIC - FMD: Atlas Gas and Oil Co State Elmer 8-10. Some knapp weed present.			
411	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.2		No		breitburn operating LPOPIC - FMD: Terra Energy State Elmer 2-11HD. Majority of pad exposed soil.			
412	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.7		No		Riverside Energy LLC.OPIC - FMD: Terra Energy State Elmer 6-11. Looks OK.			
413	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		No		Riverside Energy LLC.OPIC - FMD: Terra Energy State Elmer 11-11.			
414	110 - Low Intensity Urban	Nonstocked	2.2		No		OPIC - FMD: Atlas gas and oil. Elmers Gluwall CPF. Knapp weed present.			
415	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.5		No		OPIC - FMD: Atlas Gas and Oil Co State Elmer 10-10. knapp weed well established.			
416	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.5		No		riverside energy LLCOPIC - FMD: well pad			
417	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.4		No		Riverside energy LLC.OPIC - FMD: Atlas Gas and Oil Co State Elmer 16-10. ORV Trail through pad			

Report 7 - Stands



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age BA Range	Managed Site	General Comments
418	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		No	Riverside Energy LLC.OPIC - FMD: Atlas Gas and Oil Co State Elmer 13-11. Knapp weed present.
420	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.8		No	OPIC - FMD: DTE Gas and Oil Co State Elmer B3-14. Knapp weed present.
421	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.5		No	Riverside Energy Michigan, LLC St. Elmer 8-14OPIC - FMD: Atlas Gas and Oil Co State Elmer 8-14.
422	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0	Immature	No	OPIC - FMD: Atlas Gas and Oil Co State Elmer 11-14. Extensive knapp weed
423	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		No	OPIC - FMD: Atlas Gas and Oil Co State Elmer 15-14. Knapp weed
424	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.2		No	OPIC - FMD: Atlas Gas and Oil Co State Elmer D2-10. Better looking than some of the other wells.
425	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9		No	OPIC - FMD: Atlas Gas and Oil Co State Elmer 3-14. Full of knapp weed.