

# **Compartment Review Presentation**

**Gaylord Forest Management Unit** 

Compartment 52024 Entry Year 2024 Acreage: 537

**County Otsego** 

Management Area: AuSable Outwash

Stand Examiner: Doug Tyran

# **Legal Description:**

Otsego County, T30N R01W Sections 31, 32, and 33

# **Identified Planning Goals:**

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

# Soil and topography:

Soils in this compartment are Rubicon Sand, Emmet Sandy Loam, and Roselawn Sand. The terrain is level to gently rolling.

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

The ownership on the north and south side of this compartment is primarily private. Deer and small game hunting, snowmobiling and riding ORV's are the primary recreational activities in this compartment.

# **Unique Natural Features:**

None known.

#### **Archeological, Historical, and Cultural Features:**

None known.

# **Special Management Designations or Considerations:**

Listed are the MNFI comments; Slight potential secretive locust in V types; slight potential for dusted skipper, blazing star borer, and red-legged spittlebug in grassy openings. Pale agoseris record to the west. Pale agoseris, Rough fescue, Hill's thistle to the south. Potential for dry Prairie plants in grassy openings.

# Watershed and Fisheries Considerations:

This compartment is to the northeast of Big Bass Lake. There are no water bodies in this compartment, so Fisheries has no concerns.

#### Wildlife Habitat Considerations:

This compartment consists mostly of upland areas of aspen, oak and red pine. This early successional habitat benefits white-tailed deer, wild turkey, grouse, woodcock, and various songbirds. This area receives significant hunting pressure for white-tailed deer, grouse, woodcock, and wild turkey.

## Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluviumand an end moraine of medium-textured till. The glacial drift thickness varies between 600 and 1,000 feet. The Mississippian Coldwater Shale subcrops below the glacial drift and does not have a current economic use. The nearest gravel pit is located in Section 31 and potential appears to be good. The compartment appears to be completely developed for Antrim Shale gas production and has had some Guelph (former Niagaran) reef development. Additional potential exists for Guelph reefs.

#### **Vehicle Access:**

Compartment is easily accessible by way of county road, forest trails, and/or non-exclusive pipeline right-of-ways.

#### **Survey Needs:**

None at this time.

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

No recreational facilities. Hunting, ORV playing, ATVing, Snowmobiling, Hiking, and Bird Watching are all common.

## **Fire Protection:**

The many pipelines and large power line provide excellent fuel breaks. Equipment access is not a concern.

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

None at this time.

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

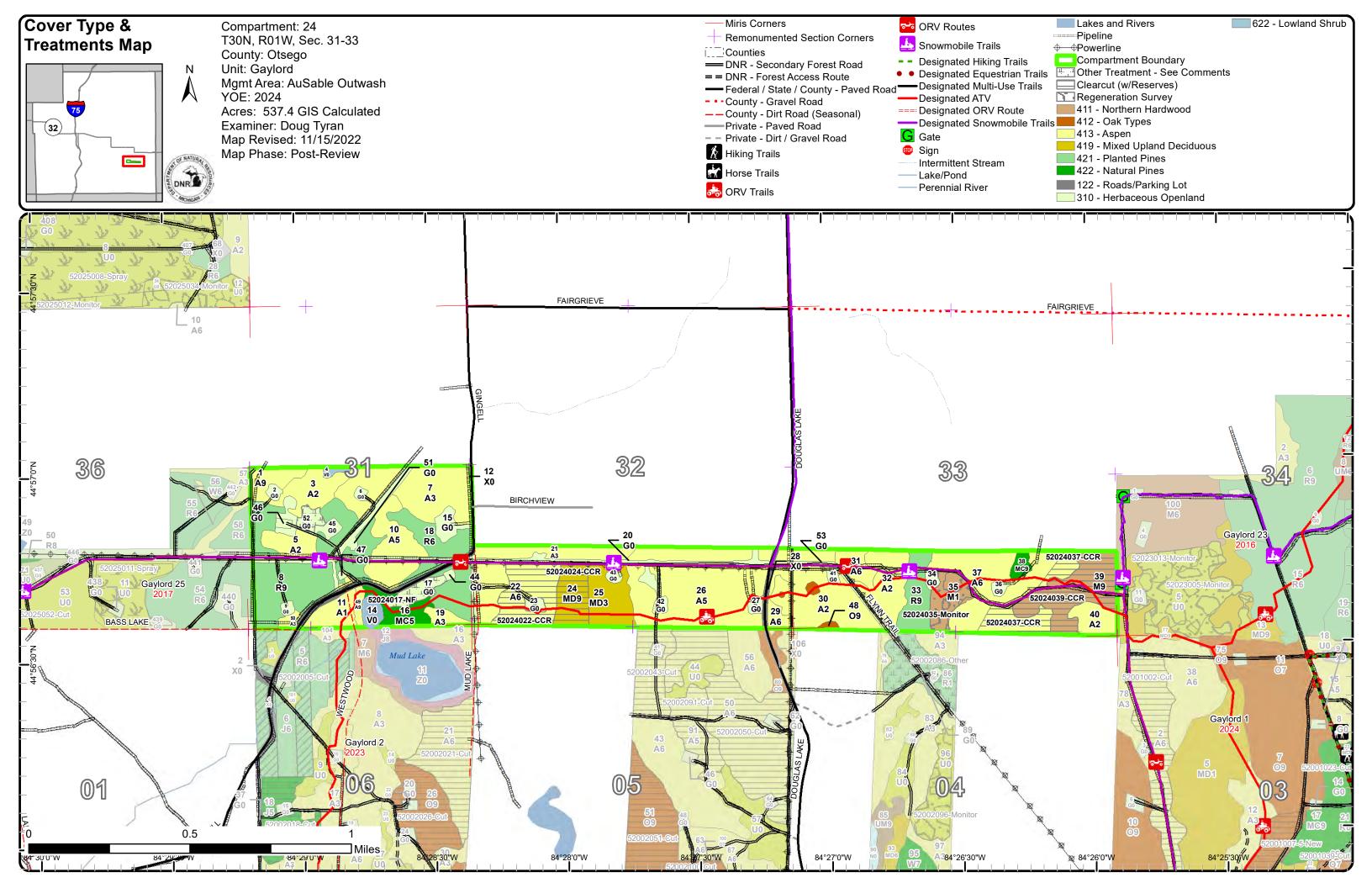
The following information is displayed, where pertinent, on the attached compartment maps:

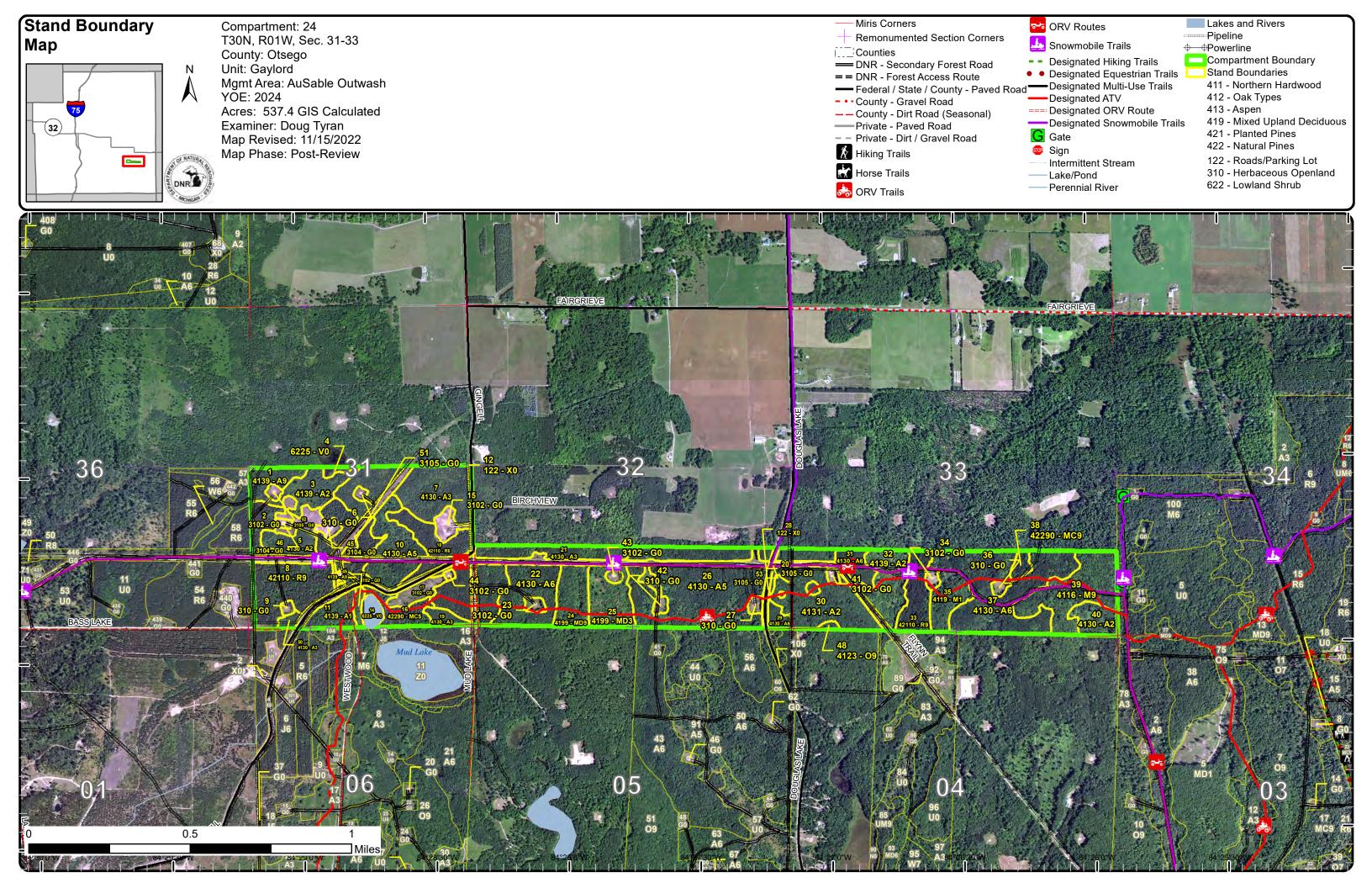
Base feature information, stand boundaries, cover types, and numbers

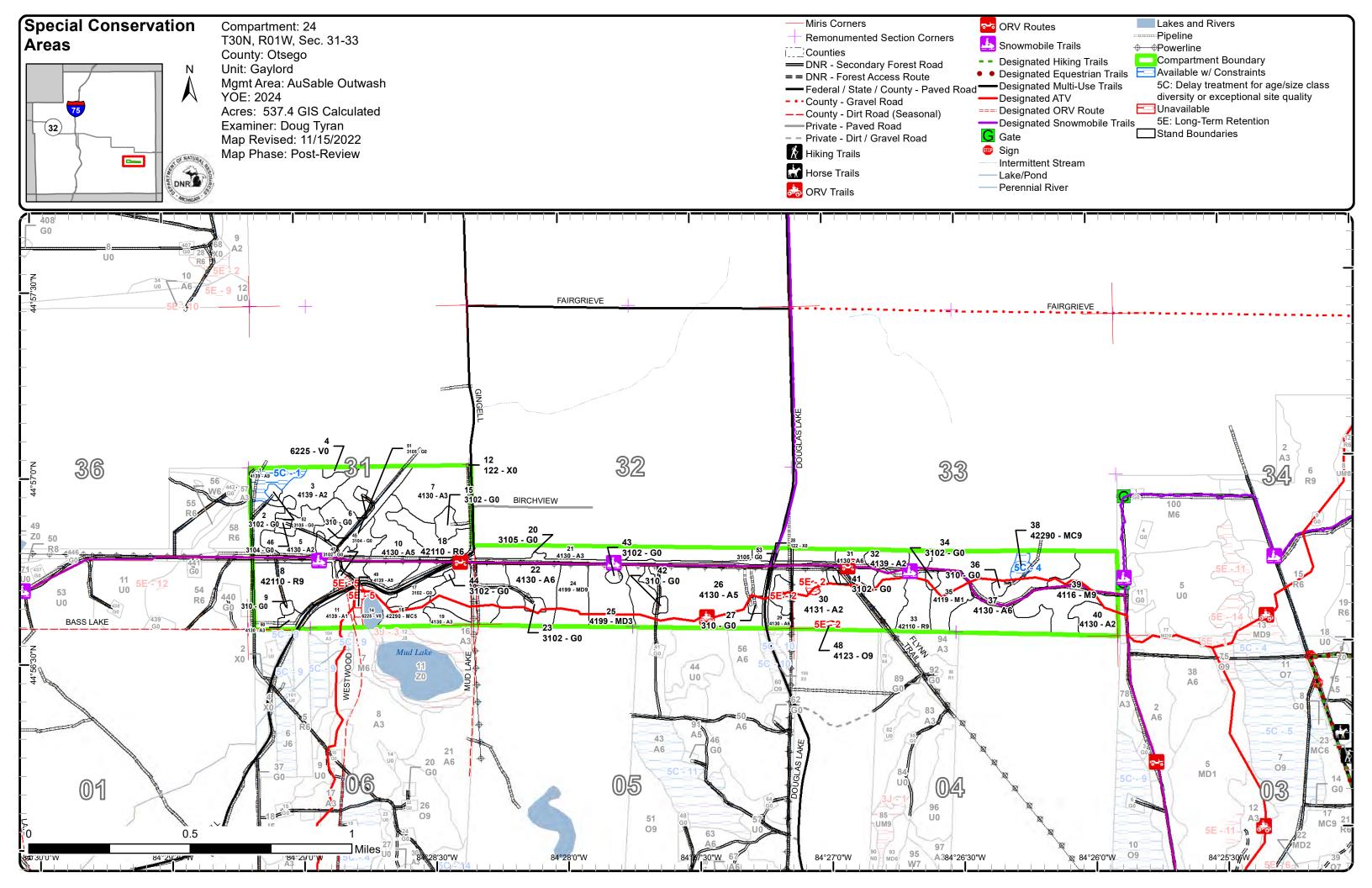
**Proposed treatments** 

Site condition boundaries

Details on the road access system







Compartment 24 Year of Entry 2024

Gaylord Mgt. Unit Doug Tyran: Examiner



# Age Class

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	\ <del>X</del> or				& & & & & & & & & & & & & & & & & & &	3 / 62		<b>^</b> /&			\$ \ &			`/ <i>&amp;</i>		\$ B		2 / 200	* \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/
Aspen	0	40	36	66	73	76	0	7	3	0	0	0	0	0	0	0	0	0	301	ĺ
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	i
Herbaceous Openland	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	l
Mixed Upland Deciduous	0	0	15	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	27	i
Natural Mixed Pines	0	0	0	0	0	0	0	0	3	8	0	0	0	0	0	0	0	0	11	i
Northern Hardwood	0	10	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	37	ł
Oak	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	ł
Red Pine	0	0	0	0	0	0	0	80	0	0	0	0	0	0	0	0	0	0	80	ł
Urban	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	ł
Total	82	50	51	66	73	76	0	87	8	47	0	0	0	0	0	0	0	0	540	l



# **Report 2 – Treatment Summary**

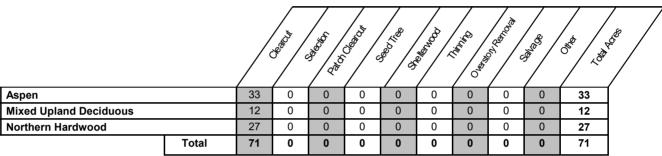
# Gaylord Mgt. Unit Year of Entry: 2024

#### **Acres of Harvest**

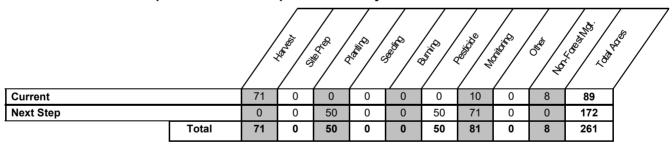
Compartment 24
Total Compartment Acres: 537

Commercial Harvest - 71
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

# **Cover Type by Harvest Method**



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



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

**Approved Treatments:** 

Other - Specify 17 52024017-NF 5.3 3102 - Grass Nonstocked Unspec NonForestMgt 310 -No Herbaceous ified

Openland

Compartment: 24

Year of Entry: 2024

Prescription Mow, plant, burn, brush, or herbicide to maintain openings. Plant hard and soft mast.

Specs:

Next Step Treatments:

<u>Acceptable</u> Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

22 52024022-18.9 Poletimber Clearcut with 4130 - Aspen 47 1-50 Harvest 413 - Aspen Even-Aged Nο Retention

Prescription Cut all trees 2" and up, leave 3-10% area retention.

Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Aspen, Maple, Oak that meets minimum stocking requirements.

Regen:

Other Add recreational trail spec.

Comment:

Add grouse/hare/deer spec.

Site Condition

Proposed Start Date: 10/1 /2023

24 52024024-11.8 4199 - Other Mixed Sawtimber 81-110 Harvest Clearcut with 4199 - Other Even-Aged No Mixed Upland **Upland Deciduous** Well Retention CCR Deciduous

Prescription Cut all trees 2" and up, leave 3-10% area retention.

Specs:

Require the producer to pile tops/treetops on and around stumps of harvested hardwoods to protect the stump sprouts from browse.

Next Step Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable Aspen, Maple, Oak & pine that meets minimum stocking requirements.

Regen:

<u>Other</u> Add recreational trail spec. Comment:

Add grouse/hare/deer spec

Site Condition

Proposed Start Date: 10/1 /2023

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Report 3 -- Treatments

Compartment: 24	TOF NATURAL PR
Year of Entry: 2024	DNR

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a n d	Treatn Nan		Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
35	52024 Mor		9.6 N	4119 - Mixed orthern Hardwoods	Sapling Poor	3	Immatu re	Monitoring	Natural Regen (Intermediate)	4123 - Red Oak	Even-Aged	No
Preso Spec	-	Evalua	te Regene	ration. If poor regen	see next	step tre	atments to	plant the site.				
	Step tments:	Pestici	de, Skidde	r - Site Prep; Planti	ng, Initial l	Plant						
Acce Rege		A mix	of oak, asp	en, red maple, and	white pine	that me	eets minim	num stocking re	equirements for oak			
Othe Com	<u>r</u> ment:		nt to Treat = t Recreatio	= 100% nal trail with any foll	ow up trea	atments	i.					
Site (	Conditio	<u>n</u>										
Prop	osed Sta	art Date	<u>:</u> 10/1 /20	23								
37	52024 C0	4037- CR	13.6	4130 - Aspen	Poletimbe Well	er 37	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
_		Cut all	trees 2" an	d up, leave 3-10% a	area reten	tion.						
Spec	<u>:S:</u>	Opport	unistically	plant areas with poc	or/undesira	able reg	eneration	to Oak/Pine.				
	Step tments:	Monito	ring, Natur	al Regen (Intermedi	ate); Pes	sticide,	Skidder - S	Site Prep; Plar	nting, Initial Plant			
Acce Rege		Aspen	, Maple, Oa	ak & Pine that meets	s minimum	n stocki	ng require	ments.				
Othe Com	_	Add re	creational t	rail spec.								
Com	ment:	Add gr	ouse/hare/	deer spec.								
Site (	Conditio	<u>n</u>										
Prop	osed Sta	art Date	<u>:</u> 10/1 /20	23								
39	52024 C0	4039- CR		4116 - Mixed N. Hardwood - Aspen	Sawtimbe Well	er 85	111- 140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
		Cut all	trees 2" ar	d up, leave 3-10% a	area reten	tion.						
Spec	<u>:S:</u>	Opport	unistically	plant areas with poo	or/undesira	able reg	eneration	to Oak/Pine.				
	Step tments:	Monito	ring, Natur	al Regen (Intermedi	ate); Pes	sticide,	Skidder - S	Site Prep; Plar	nting, Initial Plant			
Acce Rege	•	Aspen	, Maple, Oa	ak, & Pine that meet	ts minimur	n stock	ing require	ements.				
Othe Com		Add re	creational t	rail spec.								
COLU	ment:	Add gr	ouse/hare/	deer spec.								

Site Condition

Proposed Start Date: 10/1 /2023

s t		Gaylord	Mgt. Unit		Repo	rt 3 '	Treatments	Compartmen Year of Enti	DNR 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
52	52024052-NF	3.1 U	3105 - Mixed Ipland Herbaceou	Nonstock s	ed	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
Pres Spec		lant, burn,	brush, or herbicid	e to mainta	in openi	ngs. Plar	nt hard and soft n	nast.			
	Step tments:										
Acce Rege	ptable en										
Othe											
	Condition										
Prop	osed Start Date	<u>:</u> 10/1 /20:	23								

Total Treatment Acreage Proposed: 89.3

Compartment: 24

Gaylord Mgt. Unit

0

5

1%

Doug Tyran: Examiner Year of Entry: 2024

#### **Availability for Management** Total Acres Acres Avail Acres **Dominant Site Conditions** Available With Condition Not Available 5C 5E Acres 290 3 3 300 Aspen 7 7 5 5 0 0 Bog 66 66 0 0 Herbaceous Openland 26 26 0 **Mixed Upland Deciduous** 0 11 8 3 0 **Natural Mixed Pines** 3 37 37 0 Northern Hardwood 0 2 0 2 Oak 2 0 80 80 0 **Red Pine** 0

Urban

**Total Forested Acres** 

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.

5

10

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	7	Unspecified	Unspecified	Unspecified	Unspecified
;	Comments: Site condition added heavily and regener	d to hold this stand until harves ate poorly.	sting pine	e stand to the South. Cond	cerns of regeneration due t	o stand size >10 acres, wi	l likely be browsed
2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: This is retention for	the immediately surrounding t	imber ha	rvest near the snowmobile	e / atv trail		
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Site condition in pla	ce to hold the underlying stand	d until the	e surrounding Aspen is ha	rvested.		
	0000 4:44:40 DM - D						OWART

11

537

11

523

97%

0

10

2%

# **Report 4 – Site Conditions**

Compartment: 24

Gaylord Mgt. Unit

Doug Tyran: Examiner Year of Entry: 2024

5 **Unavailable 5E: Long-Term Retention** 3 Unspecified Unspecified Unspecified Unspecified

**Comments:** 

Long-Term retention for the timber harvest directly to the W/SW

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Mgt. Unit

Compartment: #Type! Year of Entry:

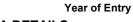


# Report 5 - PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* 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				

Mgt. Unit Compartment:





# 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.

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



Stand	Level 4 Co	ver Type		Size Density	Acres	Stand Age B	BA Range	Managed	Site	General Comments
1	4139 - Aspen, N	/lixed Decid	duous	Sawtimber Well	7.2	66	51-80	N/A		Site condition added to hold this stand until harvesting pine stand to the South. Concerns of regeneration due to stand size >10 acres, will likely
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	be browsed heavily and regenerate poorly. And to discourage small stand
	Red Maple	30	Log	11	Hazelr	nut (Beaked)	Medium	5 - 10 feet	Tall Shrub	management in this compartment.
	Paper Birch	10	Log	10	Servicebe	erry (Juneberry)	) Medium	5 - 10 feet	Sapling	
	Red Oak	15	Log	12	1	Beech	Low	< 5 feet	Sapling	
	Bigtooth Aspen	45	Log	10 66	Re	d Maple	Medium	Variable	Sapling	
2	3102 -	Grass		Nonstocked	1.2					
3	4139 - Aspen, N	/lixed Decid	duous	Sapling Medium	11.9	16	Immature	N/A		Cut in 07' fully stocked with 4,333 aspen stems/ac and 166 red maple
	Canopy Species	% Cover	Size Class	DBH Age						stems/ac
	Red Maple	20	Sapling	2						
	Bigtooth Aspen	15	Sapling	2						
Serv	viceberry (Juneberry)	10	Sapling	1						
	Black Cherry	15	Sapling	2						
	Quaking Aspen	40	Sapling	2 16						
4	6225	- Bog		Nonstocked	1.2			No		
5	4130 -	Aspen		Sapling Medium	7.3	27	1-50	N/A		Cut in 95', well stocked, MO aspen
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	45	Sapling	3	Blad	ck Cherry	Medium	10 - 20 feet	Sapling	
	Black Cherry	10	Sapling	4						
	Bigtooth Aspen	45	Sapling	4 27						
6	310 - Herbace	eous Openl	and	Nonstocked	1.0	U	Inspecified			
					Sub-Ca	nopy Species	Density	Avg. Height	Size	
					Spotte	d Knapweed	Medium	Unspecified	Non-Wood	
					Sw	eet Fern	Medium	5 - 10 feet	Tall Shrub	
					S	Sedges	High	Unspecified	Non-Wood	
7	4130 -	Aspen		Sapling Well	32.3	28	Immature	N/A		Poor quality aspen in spots. Slightly lower stocked on E side of pipleline. Stand was cut in 95'
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	pipiolino. Gtana was sat in so
	Red Maple	10	Sapling	4	Wit	ch Hazel	Medium	5 - 10 feet	Tall Shrub	
	White Pine	3	Sapling	5						
	Black Cherry	10	Sapling	4						
Serv	viceberry (Juneberry)	5	Sapling	2						
	Paper Birch	1	Sapling	2						
	Jack Pine	1	Sapling	4						
	Quaking Aspen	70	Sapling	4 28						



Stanc	d Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed	Site	General Comments
8	42110 - Plar	nted Red P	ine :	Sawtimb	er Well	44.7	63	111-140	N/A		Row thinned in 2007.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	
	Red Pine	100	Log/Pole	10	63	Re	d Maple	Low	< 5 feet	Sapling	
						Re	ed Oak	Low	< 5 feet	Sapling	
						Wit	ch Hazel	Low	5 - 10 feet	Tall Shrub	
9	310 - Herbace	eous Open	land	Nonsto	ocked	1.0	(	Unspecified			
						Sub-Ca	nopy Species	s Density	Avg. Height	Size	
						Mixes Se	dges/Grasses	s High	Unspecified	Non-Wood	
						Spotted	d Knapweed	Medium	Unspecified	Non-Wood	
						Sw	eet Fern	Medium	5 - 10 feet	Tall Shrub	
10	4130 -	- Aspen	Po	oletimbe	r Mediu	m 17.8	36	1-50	N/A		Very marginal stand, open grown aspen with pine, Most of the White
	Canopy Species	% Cover	Size Class	DBF	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	Pine is on the south side of the road, MO natural White Pine that is very healthy and doing well under the marginal aspen overstory. 1' leaders.
	Red Maple	25	Sapling	3		Wh	ite Pine	Low	5 - 10 feet	Sapling	,
	Bigtooth Aspen	30	Sapling/Pole	5	36	Blac	k Cherry	Low	5 - 10 feet	Sapling	
	Quaking Aspen	30	Sapling/Pole	5							
	White Pine	5	Pole/Sapling	g 8							
	Black Cherry	10	Sapling	3							
11	4139 - Aspen, N	Mixed Deci	duous	Sapling	Poor	7.8	3	Immature	N/A		MO Aspen and Oak, Clear-cut to promote Oak stump sprouting with Aspen, leave 100' buffer along bog and small part of stand North of
	Canopy Species		Size Class		l Age						Gingell Rd. Sale size should be 8 AC after buffer and north part of stand
	Red Oak	5	Log	14							are left out. Stand harvested in summer of 2019 (52-008-14-01) Wally
	Red Oak	1	Sapling	1							World Mix. Scattered Oak left for mast production within cut boundary.
	Black Cherry	7	Sapling	1							
Serv	viceberry (Juneberry)	7	Sapling	1							
	Red Pine	1	Sapling	1							
	Quaking Aspen	59	Sapling	1	3						
	Red Maple	20	Sapling	1							
12	122 - Road	/Parking L	ot	Nonsto	ocked	8.0	ı	Unspecified	No		
14	6225	- Bog		Nonsto	ocked	3.4			No		
15	3102	- Grass		Nonsto	ocked	3.9	l	Unspecified			



Stand	Level 4 C	over Type		Size Density	Acres	Stand Age I	BA Range	Managed	Site	General Comments
16	42290 - Natu	ıral Mixed F	Pine P	oletimber Mediu	m 8.3	83	81-110	N/A		
	Canopy Species		Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	
	Bigtooth Aspen	10	Pole	8	W	hite Pine	Low	10 - 20 feet	Sapling	
	Red Oak	5	Log	13		Red Pine	Low	10 - 20 feet	Sapling	
	White Oak	2	Log	11	Já	ack Pine	Low	10 - 20 feet	Sapling	
	Red Maple	10	Pole	7		Red Oak	Low	Variable	Sapling	
	Jack Pine	10	Pole	7 30		erry (Juneberry	/) Low	Variable	Sapling	
	White Pine	25	Log	12		hite Oak	Low	5 - 10 feet	Sapling	
	Red Pine	38	Log	13 83		ed Maple	Medium	Variable	Sapling	
					Bigto	ooth Aspen	Low	10 - 20 feet	Sapling	
17	3102	- Grass		Nonstocked	5.3	ι	Jnspecified	No		
					Sub-Ca	anopy Species	Density	Avg. Height	Size	
					Spotte	ed Knapweed	Medium	Unspecified	Non-Wood	
					5	Sedges	High	Unspecified	Non-Wood	
18	42110 - Pla	nted Red P	ine	Poletimber Well		62	141-170	N/A		Third row thinned summer 2019, Wally World Mix (52-008-14-01).
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	
	Jack Pine	2	Pole	6	Re	ed Maple	Low	< 5 feet	Sapling	
	Quaking Aspen	16	Pole	7						
	Red Pine	82	Pole	8 62						
19	4130	- Aspen		Sapling Well	3.3	26	Immature	N/A		Old railroad grade runs through stand. Cut in 95'
	Canopy Species	% Cover	Size Class	DBH Age						
	White Pine	2	Sapling	2						
	Black Cherry	3	Sapling	2						
	Quaking Aspen	95	Sapling	2 26						
20	3105 - Mixed U	pland Herba	aceous	Nonstocked	15.4			No		
						anopy Species	Density	Avg. Height	Size	
					Spotte	ed Knapweed	Medium	Unspecified	Non-Wood	
					Sw	veet Fern	Medium	5 - 10 feet	Tall Shrub	
					(	Sedges	Medium	Unspecified	Non-Wood	
21	4130	- Aspen		Sapling Well	21.9	26	Immature	N/A		Cut in 95', MO aspen, let it grow.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	
	Red Maple	35	Sapling	3	R	Red Oak	Medium	< 5 feet	Sapling	
	Quaking Aspen	25	Sapling	3						•
	Bigtooth Aspen	40	Sapling	4 26						



Stan	d Level 4 Co	ver Type		Size De	nsity	Acres	Stand Age E	A Range	Managed S	ite	General Comments
22	4130 -	Aspen	F	Poletimbe	er Well	18.9	47	1-50	N/A		Stand was cut in 75' MO aspen.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	40	Pole	7	47	Re	ed Maple	Medium	10 - 20 feet	Sapling	
	Bigtooth Aspen	40	Pole	8							
	Red Maple	20	Pole/Sapling	6							
23	3102 -	- Grass		Nonsto	cked	1.7	L	Inspecified			
24	4199 - Other Mixed	d Upland D	eciduous S	Sawtimbe	er Well	11.8	82	81-110	N/A		Many old pine stumps, no cutting history, mixed aged Oak with
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	hardwood/aspen component.
	Beech	2	Pole	5			Beech	Low	< 5 feet	Sapling	
	Red Oak	40	Log	14	82					1	
	White Oak	10	Log	12							
	Paper Birch	3	Pole	8							
	Bigtooth Aspen	15	Log	12							
	Red Maple	30	Pole	8							
25	4199 - Other Mixed	<u>'</u>		Sapling		14.6	15	Immature	N/A		Cut 07', AJD full chip operation. Almost no slash but it was cut before 1/6 to 1/3 guidelines. Stand looks great otherwise. Averaged 1000 Red
	Canopy Species		Size Class		Age						Oak/ac 100 Bigtooth/ac and 400 Red Maple/ac. Fully stocked but deer
	Red Oak	35	Sapling	2	15						browe has kept oak from reaching that free to grow stage.
	Beech	9	Sapling	1							
Ser	viceberry (Juneberry)	5	Sapling	1							
	Quaking Aspen	5	Sapling	1	4.5						
	Red Maple	45	Sapling	2	15						
	Red Oak	1	Log	13							
26	4130 -	Aspen	Po	letimber	Mediun	n 56.7	45	51-80	N/A		Part of this stand was cut in 76' and the rest was cut in 85'. Combned two stands because it makes sense to mange together and there isn't
		0/ 0	<b>a</b> : <b>a</b> :			• • •		_ :			two started because it makes serioe to mange together and there isn't
	Canopy Species		Size Class		Age		nopy Species	Density	Avg. Height	Size	much growth difference. The southeast part of the stand is poor quality
	Red Oak	5	Log	11	Age	Serviceb	erry (Juneberry	) Medium	Variable	Sapling	much growth difference. The southeast part of the stand is poor quality and makes for better pine ground.
	Red Oak White Oak	5	Log Pole	11	Age	Servicebo Maple Le	erry (Juneberry aved Viburnum	) Medium Low	Variable 5 - 10 feet	Sapling Tall Shrub	much growth difference. The southeast part of the stand is poor quality and makes for better pine ground.
	Red Oak White Oak Red Maple	5 1 15	Log Pole Pole	11 8 6		Servicebo Maple Le Wi	erry (Juneberry eaved Viburnum tch Hazel	Medium Low Medium	Variable 5 - 10 feet 5 - 10 feet	Sapling Tall Shrub Tall Shrub	much growth difference. The southeast part of the stand is poor quality and makes for better pine ground.
	Red Oak White Oak	5	Log Pole	11	<b>Age</b> 45	Servicebo Maple Le Wi	erry (Juneberry aved Viburnum tch Hazel atherleaf	Medium Low Medium Trace	Variable 5 - 10 feet 5 - 10 feet 5 - 10 feet	Sapling Tall Shrub Tall Shrub Tall Shrub	much growth difference. The southeast part of the stand is poor quality and makes for better pine ground.
	Red Oak White Oak Red Maple	5 1 15	Log Pole Pole	11 8 6		Servicebo Maple Le Wi Le	erry (Juneberry aved Viburnum tch Hazel atherleaf hite Oak	Medium Low Medium Trace Low	Variable 5 - 10 feet 5 - 10 feet 5 - 10 feet 10 - 20 feet	Sapling Tall Shrub Tall Shrub Tall Shrub Sapling	much growth difference. The southeast part of the stand is poor quality and makes for better pine ground.
	Red Oak White Oak Red Maple	5 1 15	Log Pole Pole	11 8 6		Servicebo Maple Le Wi Le W	erry (Juneberry aved Viburnum tch Hazel atherleaf	Medium Low Medium Trace	Variable 5 - 10 feet 5 - 10 feet 5 - 10 feet	Sapling Tall Shrub Tall Shrub Tall Shrub	much growth difference. The southeast part of the stand is poor quality and makes for better pine ground.



Stand	Level 4 Co	ver Type		Size De	nsity	Acres	Stand Age B	A Range	Managed 9	Site	General Comments
27	310 - Herbace	ous Open	land	Nonsto	cked	1.4					
						Sub-Ca	nopy Species	Density	Avg. Height	Size	
						Sv	veet Fern	Medium	5 - 10 feet	Tall Shrub	
						Spotte	d Knapweed	Medium	Unspecified	Non-Wood	
						Mixes Se	edges/Grasses	High	Unspecified	Non-Wood	
28	122 - Road/	/Parking L	ot	Nonsto	cked	2.7	Ur	nspecified	No		
29	4130 -	Aspen		Poletimb	er Wel	II 4.7	30	1-50	N/A		Well stocked stand of Bigtooth Aspen
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Oak	5	Sapling	4		Wi	tch Hazel	Medium	10 - 20 feet	Tall Shrub	
	Red Maple	25	Sapling	3		F	Red Oak	Low	Variable	Sapling	
	Paper Birch	2	Sapling	3						1	
Е	Bigtooth Aspen	68	Pole	5	30						
30	4131 - As	spen, Oak		Sapling I	Лediun	n 31.8	4 lı	mmature	N/A		Sale harvested spring of 2017. Logger clean up was excellent.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
(	Quaking Aspen	40	Sapling	1	4	Wi	tch Hazel	Medium	5 - 10 feet	Tall Shrub	
	Red Oak	26	Sapling	1		W	hite Oak	Low	< 5 feet	Sapling	
	Red Maple	26	Sapling	1							-
	Beech	6	Sapling	1							
Servi	ceberry (Juneberry)	2	Sapling	1							
31	4130 -	Aspen		Poletimb	er We	II 6.0	37	51-80	N/A		Stand was cut in 85' MO aspen
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Oak	5	Pole	5		Re	ed Maple	Low	Variable	Sapling	
	Red Maple	20	Sapling	4		Serviceb	erry (Juneberry)	Low	Variable	Sapling	
	Beech	3	Pole	5			Beech	Low	< 5 feet	Sapling	
	Bigtooth Aspen	72	Pole	6	37						
32	4139 - Aspen, M	lixed Deci	duous	Sapling I	Sapling Medium		15 Ir	mmature	N/A		Cut 07' AJD full chip operation. Must have had more Aspen than Oak when cut because plots averaged 1,333 Aspen/ac 666 Red Maple/ac 333
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Red Oak/ac 250 Beech/ac and 1166 shrubs/ac. The Oak is not free to
	Black Cherry	5	Sapling	2		Hazeli	nut (Beaked)	Low	5 - 10 feet	Tall Shrub	grow yet and does have browse damage. Right now the stand sits at 8%
	Red Oak	1	Log	13		Serviceb	erry (Juneberry)	Medium	Variable	Sapling	Oak. Stand is fully stocked (had trees on every plot). MO Aspen/Oak mix
Е	Bigtooth Aspen	49	Sapling	3	15	R	led Pine	Trace	< 5 feet	Sapling	
	Beech	5	Sapling	1		Wi	tch Hazel	Medium	5 - 10 feet	Tall Shrub	
	Red Maple	25	Sapling	3							
	Red Oak	10	Sapling	2							
	Paper Birch	5	Sapling	1							

' - Stands Compartment: 24
Year of Entry: 2024

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Stand	d Level 4 Co	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed \$	Site	General Comments
33	42110 - Plan	ited Red Pi	ine	Sawtimbe	er Well	12.4	60	141-170	N/A		Marked & thinned in 2017. 5 BA swings 160, 150, 170, 160, 150. Healthy
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	looking crowns. Planted in 1962.
	Red Oak	2	Log	14		В	eech	Low	Variable	Sapling	
	Quaking Aspen	2	Pole	7		Red	d Maple	Medium	5 - 10 feet	Sapling	
	Red Pine	94	Log	11	60	Re	ed Oak	Medium	Variable	Sapling	
	Red Maple	2	Pole	9							
34	3102 -	- Grass		Nonsto	cked	1.5	L	Inspecified			
35	4119 - Mixed No	rthern Hard	dwoods	Sapling	Poor	10.3	3	Immature	N/A		Little to no understory prior to harvest, thoughts were the stand was
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	young enough to successfully stump sprout yet. Northern 2 acres of stand harvested in 2017 due to storm salvage, rest of stand harvested in
	Red Oak	10	Log	13		Wito	ch Hazel	Medium	5 - 10 feet	Tall Shrub	
	Red Oak	10	Sapling	1	3	Hazelni	ut (Beaked)	Medium	5 - 10 feet	Tall Shrub	
	Red Maple	50	Sapling	1	3						This stand is the most heavily browsed I have ever seen. Lots of deer & elk tracks. Only pre-harvest trees are above the browse line. All new
	Beech	10	Sapling	1							growth is less than 3 feet. DT
Ser	viceberry (Juneberry)	10	Sapling	1							
	Black Cherry	10	Sapling	1							
36	310 - Herbace	eous Openl	land	Nonsto	cked	1.3					
						Sub-Car	nopy Species	Density	Avg. Height	Size	
						Swe	eet Fern	Medium	5 - 10 feet	Tall Shrub	
						Mixes Se	dges/Grasses	High	Unspecified	Non-Wood	
					-	Snotton	Knapweed	Medium	Unspecified		
						Sported	rknapweed	Medium	Orispecified	Non-Wood	
37	4130 -	Aspen		Poletimb	er Well	44.7	37	81-110	N/A	Non-Wood	Cut 85', pocket of hardwood and young paper birch in NE corner,
37	4130 - Canopy Species		Size Class	Poletimbe		44.7	'	81-110		Non-Wood Size	
37						44.7 Sub-Car	37	81-110	N/A		Cut 85', pocket of hardwood and young paper birch in NE corner,
37	Canopy Species	% Cover	Size Class	DBH		44.7 Sub-Car	37	81-110 Density	N/A Avg. Height	Size	Cut 85', pocket of hardwood and young paper birch in NE corner,
37	Canopy Species Bigtooth Aspen	<b>% Cover</b> 35	Size Class Pole	<b>DBH</b>		44.7 Sub-Car	37 nopy Species	81-110  Density  Medium  Low	N/A  Avg. Height  Variable	<b>Size</b> Sapling	Cut 85', pocket of hardwood and young paper birch in NE corner,
37	Canopy Species Bigtooth Aspen White Pine	% Cover 35 5	Size Class Pole Pole	<b>DBH</b> 7 9		44.7  Sub-Car  B  Wh  Serviceber	37 nopy Species seech ite Pine	81-110  Density  Medium  Low	N/A  Avg. Height  Variable  5 - 10 feet	Size Sapling Sapling	Cut 85', pocket of hardwood and young paper birch in NE corner,
37	Canopy Species Bigtooth Aspen White Pine Sugar Maple	% Cover 35 5 5	Size Class Pole Pole Log	7 9 10		44.7  Sub-Car  B  Wh  Serviceber  Suga	37 nopy Species leech ite Pine rry (Juneberry	81-110  Density  Medium  Low  Low	N/A  Avg. Height  Variable  5 - 10 feet  Variable	Size Sapling Sapling Sapling	Cut 85', pocket of hardwood and young paper birch in NE corner,
37	Canopy Species Bigtooth Aspen White Pine Sugar Maple Red Maple	% Cover 35 5 5 8	Size Class Pole Pole Log Log	7 9 10 12		44.7  Sub-Car  B  Wh  Serviceber  Suga	37 nopy Species leech ite Pine rry (Juneberry ar Maple	81-110  Density  Medium  Low  Low  Low	N/A  Avg. Height  Variable  5 - 10 feet  Variable  5 - 10 feet	Size Sapling Sapling Sapling Sapling	Cut 85', pocket of hardwood and young paper birch in NE corner,



Stand	Level 4 Co	ver Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed	Site	General Comments
38	42290 - Natur	al Mixed F	Pine	Sawtimb	er Well	2.6	75	171-200	N/A		MO White Pine, Manage stand on extended rotation due to small size.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	5	Pole	8		E	Beech	Medium	Variable	Sapling	
Serv	riceberry (Juneberry)	1	Pole	6		Hazeln	ut (Beaked)	Low	5 - 10 feet	Tall Shrub	
	White Pine	30	Log	13							
	Beech	5	Pole	8							
	Red Pine	44	Log	16	75						
	Sugar Maple	3	Pole	8							
	Red Maple	12	Log	12							
39	4116 - Mixed N. H	lardwood -	- Aspen	Sawtimb	er Well	27.0	85	111-140	N/A		Heavy to Beech, possible thin next inventory cycle, more aspen in the
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	east end of the stand.
	Sugar Maple	23	Log	12		E	Beech	High	5 - 10 feet	Sapling	
	Red Maple	24	Log	12	85						
	Beech	30	Log	10	85						
	Red Oak	2	Pole	8							
	Bigtooth Aspen	20	Log	10							
	Paper Birch	1	Log	13							
40	4130 -	Aspen		Sapling I	Лedium	8.0	15	Immature	N/A		Cut 07' 1,500 stems aspen/ac. Fully stocked (tree on every plot) with a
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	few red oak stump sprouts. Aspen appears to be over topping the oak
	Red Maple	3	Sapling	1			rry/Raspberry	Low	< 5 feet	Tall Shrub	
	Red Oak	5	Sapling	1		Re	ed Pine	Low	< 5 feet	Sapling	
	Bigtooth Aspen	79	Sapling	2	15	E	Beech	Medium	5 - 10 feet	Sapling	
	Black Cherry	10	Sapling	1		Wit	ch Hazel	Low	5 - 10 feet	Tall Shrub	
	Red Pine	1	Log	11						,	
	Red Oak	1	Log	16							
	White Pine	1	Log	13							
41	3102 -	Grass		Nonsto	cked	1.0	l	Jnspecified			Well site.
42	310 - Herbace	ous Openl	and	Nonsto	cked	1.3					
							nopy Species		Avg. Height	Size	
							dges/Grasses		Unspecified	Non-Wood	
							eet Fern	Medium	5 - 10 feet	Tall Shrub	
						Spotted	d Knapweed	High	Unspecified	Non-Wood	
43	3102 -	Grass		Nonsto	cked	1.2	ι	Jnspecified			



Stand	d Level 4 Co	over Type		Size De	nsity	Acres Star	nd Age B	A Range	Managed 9	Site	General Comments
44	3102	- Grass		Nonsto	ocked	0.6	Ur	nspecified			
45	3104 - [	Degraded		Nonsto	ocked	2.0					
46	3104 - [	Degraded		Nonsto	ocked	0.9					
47	3102	- Grass		Nonsto	ocked	0.4	Ur	nspecified			
48	4123 -	Red Oak		Sawtimb	er Wel	1.9	75	111-140	N/A		Sale harvested spring of 2017. Logger clean up was excellent.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy	Species	Density	Avg. Height	Size	
	Red Maple	10	Pole	9		Witch H	azel	Low	5 - 10 feet	Tall Shrub	
	Quaking Aspen	10	Log	12		Serviceberry (	luneberry)	Low	Variable	Sapling	
	Red Oak	80	Log	13	75						
49	4139 - Aspen, I	Mixed Deci	duous	Sawtimb		2.6	75	81-110	N/A		MO Aspen and Oak, Clear-cut to promote Oak stump sprouting with Aspen, Mixed age classes Oak 60+ and Aspen 40+, leave 100' buffer
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy	Species	Density	Avg. Height	Size	along bog and small part of stand North of Gingell Rd.
	Bigtooth Aspen	50	Log	13	75	Red Pi	ne	Low	< 5 feet	Sapling	
	Red Oak	10	Log	14		Red Ma		Medium	Variable	Sapling	
	Red Maple	40	Pole	8	65	Black Ch		Medium	Variable	Sapling	
						Serviceberry (		Medium	Variable	Sapling	
						Red O	ak	Low	< 5 feet	Sapling	
						Hazelnut (B	eaked)	Medium	5 - 10 feet	Tall Shrub	
50	4130	- Aspen		Saplin	g Well	1.8	20 lı	mmature	N/A		
	Canopy Species	% Cover	Size Class	DBH	I Age						
	Black Cherry	4	Sapling	3							
	Red Maple	5	Sapling	3							
	Red Maple										
	Red Oak	1	Sapling	2							
	•	90	Sapling Sapling	2	20						
51	Red Oak	90	Sapling			14.2	Uı	nspecified	No		
51	Red Oak Quaking Aspen	90	Sapling	3		14.2 Sub-Canopy		nspecified  Density	No Avg. Height	Size	
51	Red Oak Quaking Aspen	90	Sapling	3			Species	<u> </u>		Size Tall Shrub	
51	Red Oak Quaking Aspen	90	Sapling	3		Sub-Canopy	<b>Species</b> ern	Density	Avg. Height		



Stand	Level 4 Cover Type	Size Density	Acres Stand Age B.	A Range	Managed \$	Site	General Comments	\
52	3105 - Mixed Upland Herbaceous	Nonstocked	5.9 Ui	nspecified	No			
			Sub-Canopy Species	Density	Avg. Height	Size		
			Sweet Fern	Medium	5 - 10 feet	Tall Shrub		
			Sedges	Medium	Unspecified	Non-Wood		
			Spotted Knapweed	Medium	Unspecified	Non-Wood		
53	3105 - Mixed Upland Herbaceous	Nonstocked	4.7 Uı	nspecified	No			
			Sub-Canopy Species	Density	Avg. Height	Size		
			Spotted Knapweed	Medium	Unspecified	Non-Wood		
			Sweet Fern	Medium	5 - 10 feet	Tall Shrub		
			Sedges	Medium	Unspecified	Non-Wood		