

Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12019 Entry Year: 2027 Acreage: 2,514

County: Dickinson

Management Area: Ralph Moraine

Stand Examiner: Deb Goupell

Legal Description:

T44N R27W Sec 5-7 T44N R28W Sec1-3, 11, 12

Identified Planning Goals:

Manage all forested cover types on a sustainable yield. Develop an age class distribution within aspen cover type as directed by SFMP management plan, prescribing for harvest by age 50. Encourage diversity and conifers where possible.

Soil and topography:

The majority of the soils are fine sandy loams with 6-18% slope. There is relatively little lowland areas in this compartment.

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

Entirely State owned land; some private ownership on the west side.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

None noted

Special Management Designations or Considerations:

Cold water streams on far west end.

Watershed and Fisheries Considerations:

This compartment contains Wild West Creek and Flat Rock Creek. Wild West Creek and Flat Rock Creek are designated Type 1 trout streams less than 50 feet wide and have predicted mean July water temperatures of 62.2 and 63.7°F (cold streams), respectively. A 300' buffer is recommended for Wild West Creek and Flat Rock Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100 feet, plus 5 feet per 1% increase in slope, riparian management zone is recommended to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is made up of relatively rich soils for the Ralph Ground Moraine Management Area. Much of the hardwood stands have a heavy oak component which is highly desirable by deer, bear, wild turkeys, and grouse. Thus, much of this area should be managed with acorn production in mind. Upland and lowland conifers that provide year round cover for many wildlife species is lacking in this compartment. Maintaining and enhancing the conifer component will provide cover and travel corridors from compartments to the south and north.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. No active sand & gravel operations are known to exist in the area, but there is good potential for development of sand & gravel in the compartment on the upland drumlins. The compartment, however, might be too far from populated areas (commercial markets) for any aggregate resources present to have much value beyond use by the county road commission or DNR for local road maintenance. Some sparse ground-based exploration for metallic minerals has occurred in this area, but no known prospects have been identified, and potential for any economic development of metallic minerals within/beneath the compartment is considered low at this time. The nearest current leasing activity involving State-owned mineral rights is several miles west. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Simpson Road (poor dirt road) and Tower Road (county gravel road) are the primary arteries of this compartment. Various

two-track roads and trails cut through the interior.

Survey Needs:

None at this time

Recreational Facilities and Opportunities:

No facilities within the compartment; snowmobile trail is located a half mile southeast of the compartment boundary. This area heavily used by hunters, trappers, ATV riders, fishermen.

Fire Protection:

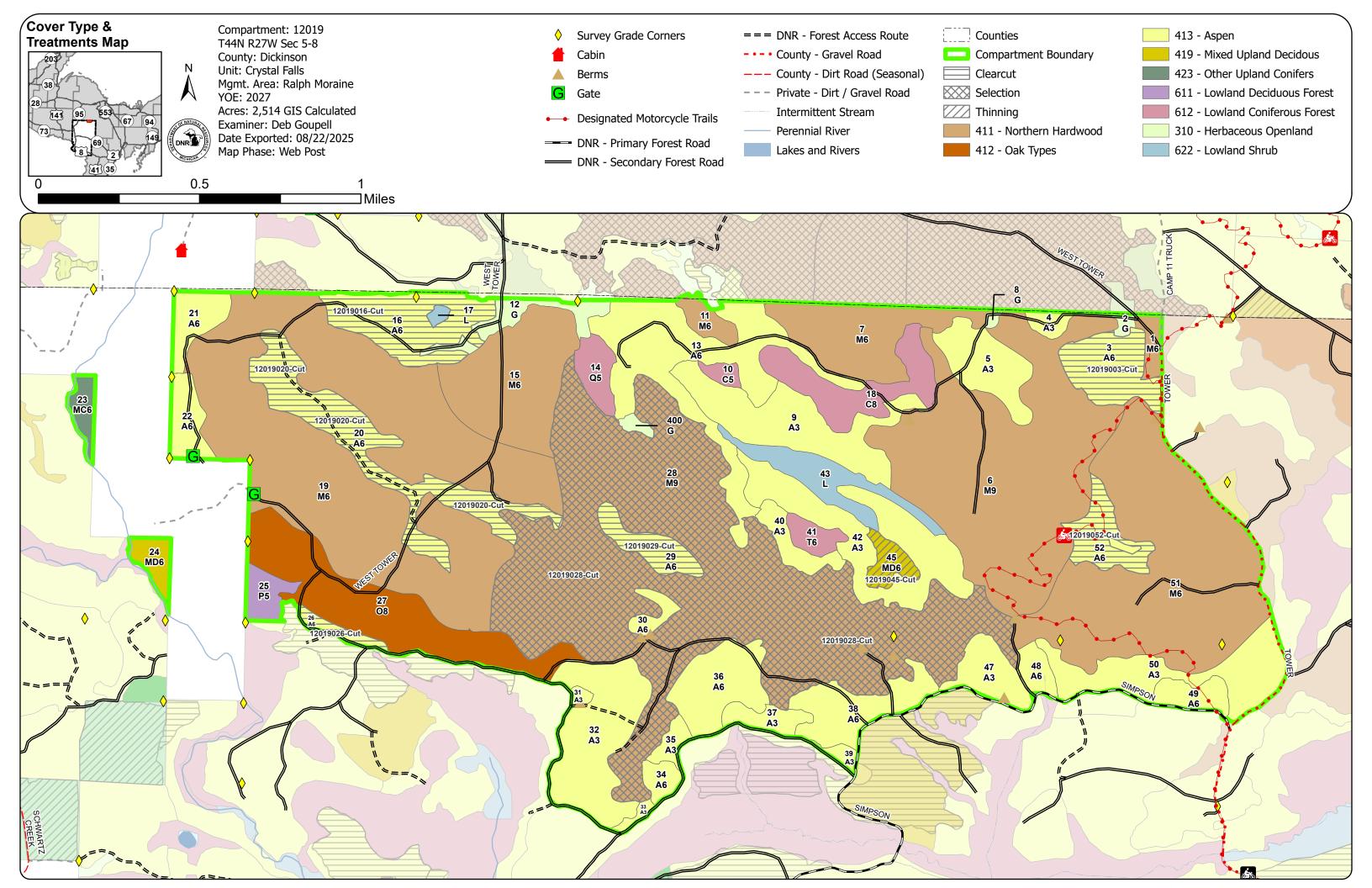
Additional Compartment Information:

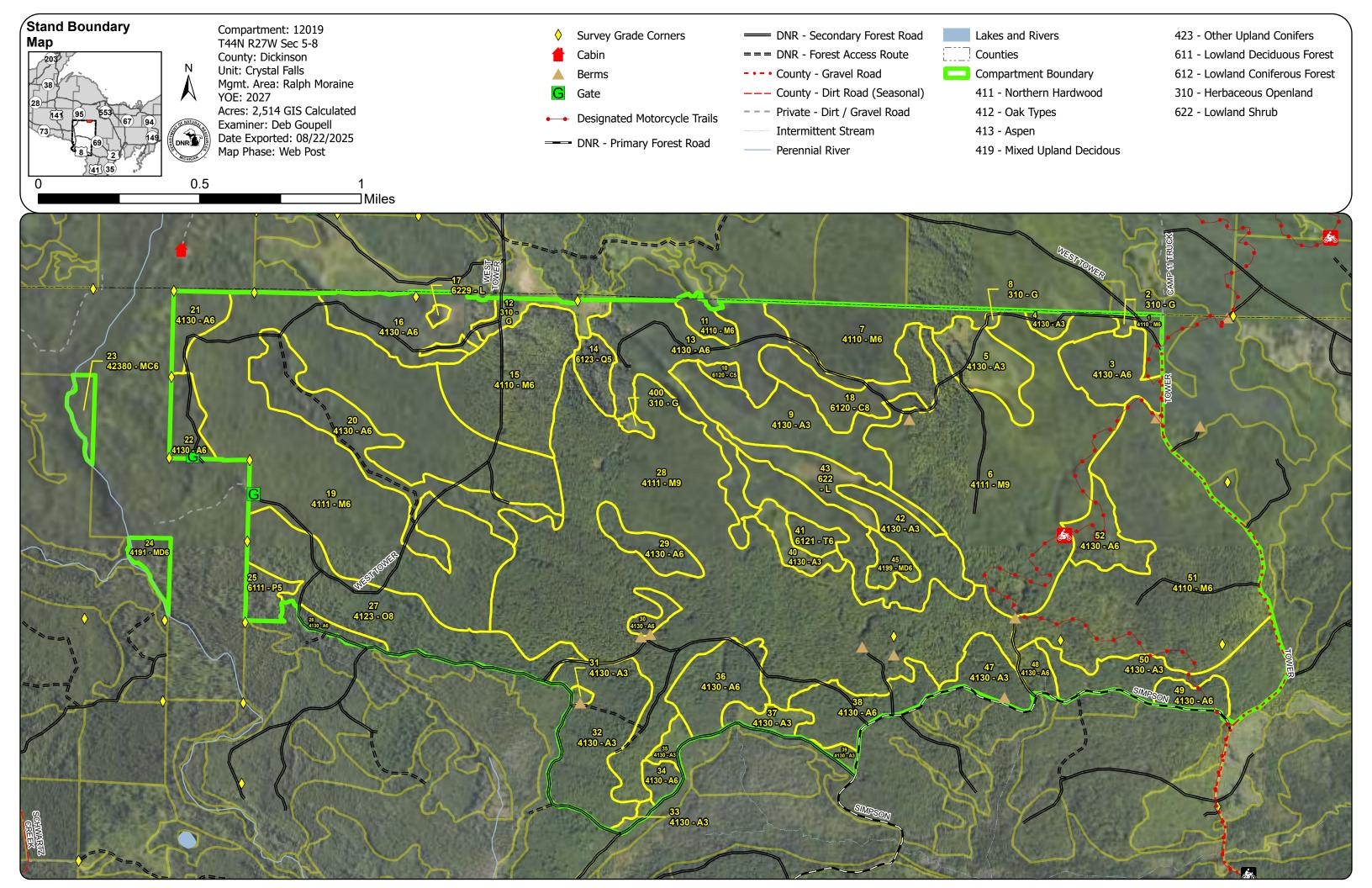
The following reports from the Inventory are attached:

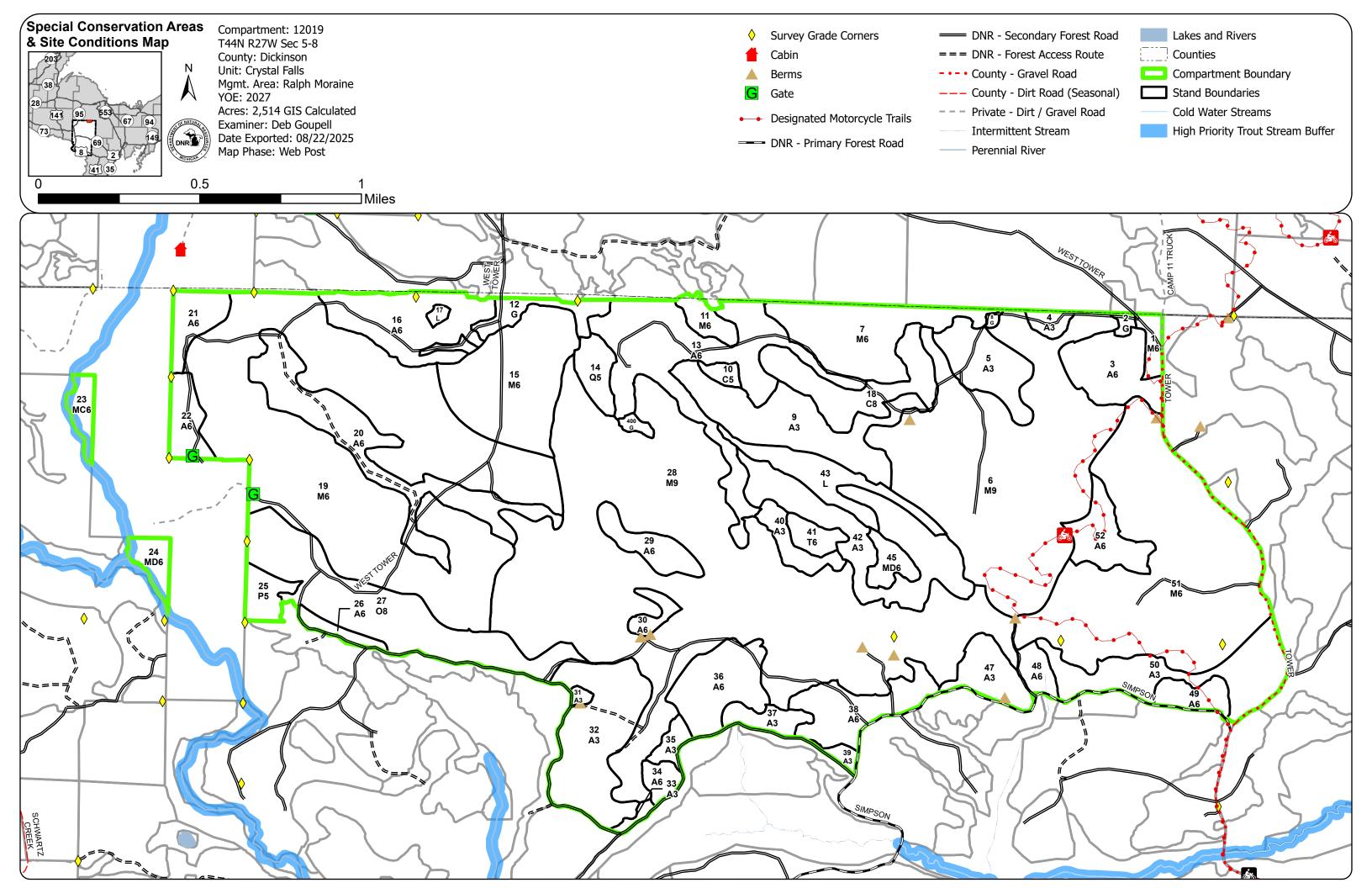
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Crystal Falls Mgt. Unit

Compartment 19 Year of Entry 2027

Deb Goupell: Examiner



Age Class

	Į gor	i de la companya de l	8 / <u>2</u>	Ø / &		3 / 1		3/8				lar.	70,70					S Jules	No. No.
Aspen	0	79	54	22	302	193	124	24	0	9	0	0	0	0	0	0	0	0	806
Cedar	0	0	0	0	0	0	0	0	0	0	0	46	0	0	0	0	0	0	46
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12
Lowland Conifers	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Shrub	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	10	11	0	0	0	0	0	0	21
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	1446	0	0	0	0	0	0	1446
Oak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	95
Tamarack	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Upland Conifers	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Total	55	79	54	22	302	207	124	24	0	9	40	1503	0	0	0	0	0	95	2513



Report 2 – Treatment Summary

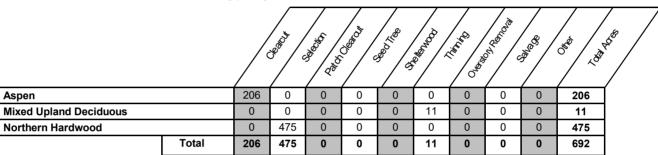
Crystal Falls Mgt. Unit Year of Entry: 2027

Acres of Harvest

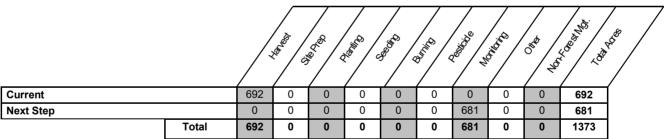
Compartment 19
Total Compartment Acres: 2,514

Commercial Harvest - 1373 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Site Condition:

Proposed Start Date: 10/01/2026

 16
 12019016-Cut
 51.8
 4130 - Aspen
 6
 55
 Unspeci fied
 Harvest
 Clearcut
 413 - Aspen
 Planting Record

<u>Prescription</u> Specs: Final harvest all stems 3" and greater at dbh except white pine, red pine, cedar, oak (if found). Scattered live clumps of submerchantable conifer will be left as available. Retention will be focused around pond for conifer retainment, as requested by WLD

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, mixed hardwood, mixed softwood

Regen:
Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2026

20 12019020-Cut 71.4 4130 - Aspen 6 48 Unspeci Harvest Clearcut 413 - Aspen Planting No fied Record

<u>Prescription</u> Final harvest all stems 3"dbh and greater except oak, white pine, red pine, cedar. Retention will be focused around heavier areas of conifer, <u>Specs:</u> generally the northwest/north central, per WLD request.

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

Acceptable aspen, mixed hardwood, mixed softwood Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

26 12019026-Cut 6.8 4130 - Aspen 6 41 Unspeci Harvest Clearcut 413 - Aspen Planting No fied Record

Prescription Final harvest all stems 2" dbh and greater except oak & white pine. No other retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, mixed softwood, mixed hardwood

Regen:

Other This stand has lost much volume due to SBW

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

Report 3 -- Treatments

Compartment: 12019

S t	0.	your run	3g.: 0		Nepoi		realments		Year of Entr		DNR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habita Cut
28	12019028-Cut	475.4	4111 - S.Maple, Hard Mast Association	9	105	111- 140	Harvest	Selection	411 - Northern Hardwood	Planting Record	No
Pres Spec			cusing on removal o							er. Larger bas	swood tree
	Step Monitor tments:	ring, Natur	al Regen (Re-Invent	tory)							
Acce Rege		ixed hardw	vood, aspen, mixed	softwood.							
Othe Com	<u>r</u> ment:										
	Condition: osed Start Date	10/01/2	026								
29	12019029-Cut	18.0	4130 - Aspen	6	50	Unspeci fied	Harvest	Clearcut	413 - Aspen	Planting Record	No
Pres Spec		arvest all s	tems 3" dbh and gre	eater excep	t oak, re	ed pine, wh	nite pine. Also re	etain submerchant	able conifer.		
	Step Monito	ring, Natur	al Regen (Re-Invent	tory)							
Acce Rege		mixed hard	dwood, mixed softwo	ood							
Othe Com	<u>r</u> Very lit <u>ment:</u>	tle conifer	in here								
	Condition:	40/04/0	000								
	osed Start Date										
45	12019045-Cut	10.7	4199 - Other Mixed Upland Deciduous	6	105	111- 140	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
Pres Spec			cusing on removal o leaving over other s			es that wil	ll not survive to n	next marking entry	, following Complea	at Marker. Oa	k may be
	Step tments:										
Acce Rege	e <u>ptable</u> en:										
Othe Com	<u>r</u> ment:										
	Condition:										
Prop	osed Start Date	10/01/2	026								
52	12019052-Cut	23.0	4130 - Aspen	6	60	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Planting Record	No
Pres Spec	•	arvest all s	tems 3" dbh and gre	eater excep	t oak an	nd cedar. F	Retention is refle	cted in treatment,	excluding low area	from harvest	
	Step Monito	ring, Natur	al Regen (Re-Invent	tory)							
Acce	eptable aspen,	maple, mi	xed softwood								

Comment: Site Condition:

Regen: <u>Other</u>

Proposed Start Date: 10/01/2026

May consider marking better quality sugar maple trees to leave

s	(Crystal Fall	s Mgt. Unit		Repor	t 3	Treatments		Compartme Year of Ent		DNR DNR
t									real of Life	. y. 2027	
a n	Treatment	Acres	Stand	Size	Stand	ВА	Treatment	Treatment	Cover Type	Age	Habitat
ď	Name		CoverType	Density	Age	Range	Type	Method	Objective	Structure	Cut

Total Treatment Acreage Proposed: 691.7

Report 4 - Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell: Examiner

Compartment: 19
Year of Entry: 2027



Availability for Management Total Acres Acres Avail Acres **Dominant Site Conditions** Available With Condition Not Available Acres 5C 2G 3J 5E 747 23 23 777 7 Aspen 7 46 46 0 Cedar 0 23 23 0 Herbaceous Openland 0 Lowland Aspen/Balsam Poplar 11 0 11 0 11 0 **Lowland Conifers** 14 14 0 32 0 32 0 Lowland Shrub 21 11 10 Mixed Upland Deciduous 10 0 1446 1446 0 0 Northern Hardwood 0 95 95 Oak 0 0 9 9 0 Tamarack 9 0 9 **Upland Conifers** 0 9 2,483 2,422 54 Total Forested Acres 20 7 11 23 98% 0% 2% 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.

(stream, river, or lake) Comments:		Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
2 Unavailable 3J: Water quality/BMPs 9 Unspecified Unspecified Unspecified Unspecified Unspecified (stream, river, or lake)	Unavailable		10	Unspecified	Unspecified	Unspecified	Unspecified
(stream, river, or lake)	Comments:						
Comments:	Unavailable		9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
		Comments: Unavailable	Unavailable Substitute Condition 3J: Water quality/BMPs (stream, river, or lake)	Unavailable Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments: Unavailable 3J: Water quality/BMPs (stream, river, or lake) 9 (stream, river, or lake)	Cond Availability Dominant Site Condition Acres Other Site Condition Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments: Unavailable 3J: Water quality/BMPs 9 Unspecified (stream, river, or lake)	Cond Availability Dominant Site Condition Acres Other Site Condition Other Site Condition Unavailable 3J: Water quality/BMPs (stream, river, or lake) 10 Unspecified Unspecified Comments: Unavailable (stream, river, or lake) 9 Unspecified Unspecified	Cond Availability Dominant Site Condition Acres Other Site Condition Other Site Condition Other Site Condition Unavailable 3J: Water quality/BMPs (stream, river, or lake) 10 Unspecified Unspecified Unspecified Unavailable 3J: Water quality/BMPs (stream, river, or lake) 9 Unspecified Unspecified Unspecified

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell: Examiner



3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: holding for "tail" as	pen age class					
5	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: there is a bed and	bank that cuts this stand in half					
8	Unavailable	5E: Long-Term Retention	2	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments:						
9	Unavailable	5E: Long-Term Retention	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments:						

Mgt. Unit Compartment: #Type!
Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Stand	d Level 4 C	over Type		Size Density	Acres	Stand Age E	BA Range	Managed S	ite	General Comments
1	4110 - Sugar i	Maple Asso	ciation	Poletimber Well	7.6	104	81-110	N/A		THE OAKS TS CUT 2010
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Sugar Maple	50		9	Lea	therwood	Medium	5 - 10 feet	5 - 10 feet	
	Basswood	50		14 104	Iro	nwood	Full	5 - 10 feet	5 - 10 feet	
2	310 - Herbad	ceous Open	lland	None	2.5			No		Aspen, cherry, conifer filling in
3	4130	- Aspen		Poletimber Well	34.6	57 L	Inspecified	N/A		Trace amounts of white ash and paper birch. West 1/3 of stand is
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	rockier & wetter, more balm gilead
	Sugar Maple	15		10	Irc	nwood	Medium	10 - 20 feet	10 - 20 feet	
	Basswood	10		12	Whit	te Spruce	Low	Variable	Variable	
	Quaking Aspen	65		11 57	Ва	Isam Fir	Medium	Variable	Variable	
	Balsam Poplar	10	Seedling	9	Haze	Inut (Spp.)	Medium	5 - 10 feet	5 - 10 feet	
4	4130	- Aspen		Sapling Well	5.9	5	Immature	N/A		HIpster Hwd TS cut 2018. Most of residual black ash is dead.
	Canopy Species	% Cover	Size Class	DBH Age						
	Quaking Aspen	75	Log	1 5						
	Red Oak	1		14						
	Balsam Poplar	10	Log	1						
	Red Maple	14	Log	1						
5	4130	- Aspen		Sapling Well	32.5	5	Immature	N/A		Hipster Hwd cut 2018. Black ash retention is dead
	Canopy Species	% Cover	Size Class	DBH Age						
	Red Maple	15	Log	1						
	Quaking Aspen	85	Log	1 5						
6	4111 - S.Maple, H	lard Mast A	ssociation	Sawtimber Well	243.2	104	81-110	N/A		THE OAKS TSALE CUT 2010. many multiple stem red oak, nearly no
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	finger.
	Red Oak	35		18 104		ing Aspen	Low	10 - 20 feet	10 - 20 feet	-
	Basswood	25		14	R	ed Oak	Low	< 5 feet	< 5 feet	
	Sugar Maple	35		10 104	Irc	nwood	Full	10 - 20 feet	10 - 20 feet	
	White Ash	5		10	WI	hite Ash	Low	< 5 feet	< 5 feet	
7	4110 - Sugar i	Maple Asso	ciation	Poletimber Well	58.6	104	51-80	N/A		Tower Basswood cut 2000. Some sugar maple and white ash saplings 7 >5'. Fewer oak.
	Canopy Species	% Cover	Size Class			nopy Species	Density	Avg. Height	Size	⊺ >э . Fewer оак. │ Hipster Hwd TS cut ~2021 (sale closed in 2022)
	Red Oak	2		14	Ва	Isam Fir	Low	5 - 10 feet	5 - 10 feet	
	Sugar Maple	45		10	Irc	nwood	Full	5 - 10 feet	5 - 10 feet	
	Basswood	53		10 104	R	ed Oak	Low	< 5 feet	< 5 feet	
8	310 - Herba	ceous Open	land	None	1.2			No		



Stand	d Level 4 Co	over Type		Size De	nsity	Acres St	tand Age B	A Range	Managed S	ite	General Comments
9	4130	- Aspen		Sapling		64.0	33 I	mmature	N/A	A	Tower Rd Walking Trail cut 1991. More red oak saplings/poles in cente $_{\scriptscriptstyle extsf{T}}$ of stand along closed road
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cano _l	py Species	Density	Avg. Height	Size	of startd along closed road
	Red Oak	5	Sapling	6		Hazelnu	t (Spp.)	High	5 - 10 feet	5 - 10 feet	
	Red Maple	10	Log	1							
	Balsam Fir	2	Pole	4							
	Quaking Aspen	80	Sapling	5	33						
	White Spruce	3	Pole	4							
10	6120 - Lov	vland Ceda	ır Po	oletimber	Mediun	n 4.4	104 U	nspecified	N/A	4	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cano	py Species	Density	Avg. Height	Size	
	Black Spruce	2	Seedling	7		Red N	/laple	Low	5 - 10 feet	5 - 10 feet	
	Tamarack	3	Seedling	8		Tag A	Alder	High	5 - 10 feet	5 - 10 feet	
No	orthern White Cedar	95		10	104			·			-
11	4110 - Sugar M	laple Asso	ciation	Poletimb	er Well	10.0	104	81-110	N/A	4	Tower Basswood cut 2000. Hipster Hwd TS cut 2019 (closed in 2022)
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cano _l	py Species	Density	Avg. Height	Size	
	Sugar Maple	42		10		White 9	Spruce	Low	5 - 10 feet	5 - 10 feet	
	Basswood	53		10	104	Red	Oak	Low	< 5 feet	< 5 feet	
	Red Oak	5		14		Balsa	m Fir	Low	5 - 10 feet	5 - 10 feet	
						Ironv	vood	Full	5 - 10 feet	5 - 10 feet	
12	310 - Herbac	eous Open	land	Nor	ie	16.9			No)	
13	4130	- Aspen		Poletimb		97.1	48 U	nspecified	N/A	A	County Line TS cut 1976. Ready for cut
	Canopy Species	% Cover	Size Class	DBH	Age		py Species	Density	Avg. Height	Size	
	Bigtooth Aspen	10	Seedling	9		Hazelnu	t (Spp.)	Medium	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	70	Seedling	9	48	Balsa	m Fir	Medium	Variable	Variable	
	Balsam Fir	7	Seedling	7		Sugar	Maple	Low	Variable	Variable	
	White Ash	5	Seedling	9		White 9	Spruce	Low	Variable	Variable	
	White Spruce	2	Seedling	6							
	Red Oak	1		16							
	Paper Birch	5	Seedling	9							
14	6123 - L	owland Fir	Po	oletimber	Mediun	n 13.9	45 U	nspecified	N/A	4	Conifer is thick, dbhs range from 1-7" with a couple 12" white spruce.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cano _l	py Species	Density	Avg. Height	Size	Water table very near to the surface. Little merchantable wood at this time.
	Balsam Fir	55	Sapling	5	45	Tag A	Alder	High	5 - 10 feet	5 - 10 feet	
	White Spruce	25	Seedling	6							_
No	orthern White Cedar	5	Seedling	9							
	Balsam Poplar	15	Seedling	7							



Stand	d Level 4 Co	over Type	;	Size Density	Acres	Stand Age B	BA Range	Managed \$	Site	General Comments
15	4110 - Sugar N	laple Assoc	ciation F	oletimber Well	80.9	101	81-110	N//	A	many large rocks scattered in stand, on topsoil. South 2/3 of stand is
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Can	opy Species	Density	Avg. Height	Size	best quality and potential (on hillside). North edge is heavier to aspen. (old notes)Needs field update next inventory cycle. Stand harvested
	Paper Birch	3		10	White	e Spruce	Low	Variable	Variable	with CF Squared Hardwood timber sale 32-037-18. Cut between 2019
	Basswood	35		12	Leath	nerwood	Medium	5 - 10 feet	5 - 10 feet	and 2023. (2024)
	Bigtooth Aspen	5		14	Iror	nwood	Low	10 - 20 feet	10 - 20 feet	
	Sugar Maple	45		10 101	Re	d Oak	Trace	< 5 feet	< 5 feet	
	Quaking Aspen	12		12	Bals	sam Fir	Low	Variable	Variable	
					Suga	ar Maple	Low	< 5 feet	< 5 feet	
16	4130	- Aspen	F	Poletimber Well	51.8	55 U	Inspecified	N//	A	Aspen ranges from 7-14" dbh
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Red Pine	2		12	Hazelr	nut (Spp.)	High	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	90		10 55	Whi	te Pine	Trace	< 5 feet	< 5 feet	
	Balsam Fir	8	Seedling	8	Bals	sam Fir	Medium	Variable	Variable	
					Re	d Pine	Trace	< 5 feet	< 5 feet	
					White	e Spruce	Low	Variable	Variable	
17	6229 - Mixed	Lowland S	hrub	None	2.0			No)	
18	6120 - Lov	wland Ceda	ır Sa	wtimber Medium	n 41.4	108 U	Inspecified	N/A	A	Heavy to tag alder especially on south edge of stand. Most tamarack in
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Can	opy Species	Density	Avg. Height	Size	far southwest Cutting through this stand will compromise its cover integrity in an area where decent conifer cover is scarce. Scattered
	Black Spruce	15	Seedling	8	Тад	g Alder	High	5 - 10 feet	5 - 10 feet	black ash still alive
	Tamarack	5		12						-
	Balsam Poplar	10		12						
No	orthern White Cedar	70		12 108						
19	4111 - S.Maple, H	ard Mast As	ssociation F	Poletimber Well	351.2	102	81-110	N//	A	Thinned in 2004. BAs range from 100-150. Quite a variable stand. (old notes)Stand harvested with CF Squared Hardwood timber sale 32-
	Canopy Species		Size Class	DBH Age	Sub-Can	opy Species	Density	Avg. Height	Size	037-18. Cut between 2019 and 2023. (2024)
	Sugar Maple	35		11 102		nwood	High	10 - 20 feet	10 - 20 feet	, ,
	Basswood	35		13 102	Re	d Oak	Trace	< 5 feet	< 5 feet	
	White Ash	3		11	Leath	nerwood	Medium	5 - 10 feet	5 - 10 feet	
	Red Oak	20		16						
	Paper Birch	7		9						



Stand	l Level 4 C	over Type		Size De	ensity	Acres S	Stand Age E	BA Range	Managed S	Site	General Comments
20	4130	- Aspen		Poletimb	er Well	72.0	48 U	Inspecified	N/A	Ą	Trace amount of cherry. More maple saplings in pinch points
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Cand	py Species	Density	Avg. Height	Size	
	White Spruce	5	Seedling	8		Hazeln	ut (Spp.)	High	5 - 10 feet	5 - 10 feet	
	Horsechestnut	5		9		White	Spruce	Low	10 - 20 feet	10 - 20 feet	
	Sugar Maple	10	Seedling	8		Iron	wood	High	Variable	Variable	
	Red Oak	10		10		Balsa	am Fir	Low	10 - 20 feet	10 - 20 feet	
	Quaking Aspen	65		10	48	Sugai	r Maple	Medium	10 - 20 feet	10 - 20 feet	
	Balsam Fir	5	Seedling	8							-
21	4130	- Aspen		Poletimb	er Well	17.3	47 U	Inspecified	N/A	4	Fair amount of softwood on the ground. Will hold for next entry
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Cano	py Species	Density	Avg. Height	Size	
	Balsam Fir	5	Seedling	6		Hazeln	ut (Spp.)	High	5 - 10 feet	5 - 10 feet	
	Paper Birch	5	Seedling	6		Leath	erwood	Medium	< 5 feet	< 5 feet	
	White Spruce	3	Seedling	7		Balsa	am Fir	Low	Variable	Variable	
	Quaking Aspen	87	Seedling	7	47	White	Spruce	Low	Variable	Variable	
						Iron	wood	Medium	Variable	Variable	
22	4130	- Aspen		Poletimb	er Well	16.5	37 U	Inspecified	N/A	4	West Tower TS cut 1987
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Cand	py Species	Density	Avg. Height	Size	
	Balsam Fir	5	Sapling	5		Balsa	am Fir	Medium	5 - 10 feet	5 - 10 feet	
	Red Oak	3		18		White	Spruce	Medium	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	70	Seedling	5	37	Hazeln	ut (Spp.)	High	5 - 10 feet	5 - 10 feet	
	Bigtooth Aspen	10	Seedling	5		Sugai	r Maple	Low	5 - 10 feet	5 - 10 feet	
	Red Maple	12	Log	4							-
23	42380 - Non Pine U Dec	Jpland Coni iduous	fer, Mixed	Poletimb	er Well	9.4	94	81-110	N/A	Ą	Most of this stand is within 300' of prime trout waters.
24	4191 - Mixed Upl Co	and Decidu	ous with	Poletimb	er Well	10.4	95	81-110	N/A	Α	Stand is within 300' of prime trout water.
25	6111 - Lowlan	d Balsam F	oplar F	Poletimbe	r Mediun	n 12.2	96 U	Inspecified	N/A	4	Much of interior of stand is dead; drainage south central of stand. Large
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Cano	py Species	Density	Avg. Height	Size	spruce and balm are standing dead. Buffering this bed/bank preclude much of the stand for harvest
	Balsam Poplar	75		10	96		Alder	Medium	5 - 10 feet	5 - 10 feet	Thron or the stand for harvest
	Paper Birch	2	Seedling							1	1
	rapel bilcii		Coodining	0							
	White Spruce	13		11							



Stan	d Level 4 C	over Type	•	Size De	• •	Acres S	Otana Age D		Managed S	ite	General Comments
26	4130	- Aspen	Р	oletimb	er Well	6.8	41 U	nspecified	N/A	\	understory/submerchantable fir/spruce hit harder by SBW
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Cand	opy Species	Density	Avg. Height	Size	
	Red Oak	5		10		Whit	te Pine	Trace	Variable	Variable	
	Red Maple	10	Seedling	7		Red	l Maple	Medium	Variable	Variable	
	White Spruce	5	Seedling	6		Bals	sam Fir	Medium	10 - 20 feet	10 - 20 feet	
	Balsam Fir	5	Seedling	7		White	Spruce	Medium	10 - 20 feet	10 - 20 feet	
	Quaking Aspen	75	Seedling	8	41						-
27	4123 -	Red Oak	Sa	wtimbe	Medium	94.8	105	111-140	N/A	1	Sugar maple seedlings are browsed, stump sprouting as well. Almost no
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Cand	opy Species	Density	Avg. Height	Size	red oak seed recruitment where red oak BA is higher. Red oak is thickest on top of the ridge.
	White Pine	5		14		Iron	nwood	Medium	10 - 20 feet	10 - 20 feet	
	Red Oak	95		14	105	Red	Maple	Medium	5 - 10 feet	5 - 10 feet	
						Suga	ar Maple	Low	< 5 feet	< 5 feet	
						Whit	te Pine	Medium	Variable	Variable	
						Bals	sam Fir	Low	Variable	Variable	*
						Bigtoo	oth Aspen	High	>20 feet	>20 feet	
						Quakir	ng Aspen	High	>20 feet	>20 feet	
						Q 0.0	ing / topen	riigii	~20 leet	- 20 1001	
							d Oak	Medium	10 - 20 feet	10 - 20 feet	
28	4111 - S.Maple, H	lard Mast A	ssociation S	awtimb	er Well		d Oak			10 - 20 feet	Split Sale cut 2008-2010. Avg BA 127 from 43 plots taken. Basswood
28	4111 - S.Maple, H		ssociation S		er Well	475.4	d Oak	Medium	10 - 20 feet	10 - 20 feet	Split Sale cut 2008-2010. Avg BA 127 from 43 plots taken. Basswood and ash in severe decline.
28	• •					475.4 Sub-Cand	d Oak 105	Medium 111-140	10 - 20 feet N/A	10 - 20 feet	,
28	Canopy Species	% Cover		DBH		475.4 Sub-Cane White	d Oak 105 opy Species	Medium 111-140 Density	10 - 20 feet N/A Avg. Height	10 - 20 feet Size	
28	Canopy Species Red Oak	% Cover		DB F		475.4 Sub-Cane White	d Oak 105 opy Species e Spruce	Medium 111-140 Density Low	10 - 20 feet N/A Avg. Height 5 - 10 feet	10 - 20 feet Size 5 - 10 feet	
28	Canopy Species Red Oak White Ash	% Cover 20 5		18 12	I Age	475.4 Sub-Cane White	d Oak 105 opy Species e Spruce nwood	Medium 111-140 Density Low Full	N/A Avg. Height 5 - 10 feet Variable	Size 5 - 10 feet Variable	,
28	Canopy Species Red Oak White Ash Sugar Maple	% Cover 20 5 30		18 12 12	105	475.4 Sub-Cane White	d Oak 105 opy Species e Spruce nwood	Medium 111-140 Density Low Full	N/A Avg. Height 5 - 10 feet Variable	Size 5 - 10 feet Variable	
28	Canopy Species Red Oak White Ash Sugar Maple Red Maple Basswood	% Cover 20 5 30 5	Size Class	18 12 12 11	105 105	475.4 Sub-Cane White	d Oak 105 opy Species e Spruce nwood sam Fir	Medium 111-140 Density Low Full	N/A Avg. Height 5 - 10 feet Variable	Size 5 - 10 feet Variable 5 - 10 feet	
	Canopy Species Red Oak White Ash Sugar Maple Red Maple Basswood	% Cover 20 5 30 5 40	Size Class	18 12 12 11 11 14	105 105	475.4 Sub-Cane White Iron Bals	d Oak 105 opy Species e Spruce nwood sam Fir	Medium 111-140 Density Low Full Low	N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet	Size 5 - 10 feet Variable 5 - 10 feet	and ash in severe decline.
	Canopy Species Red Oak White Ash Sugar Maple Red Maple Basswood	% Cover 20 5 30 5 40 - Aspen	Size Class	18 12 12 11 11 14	105 105 er Well	Rec 475.4 Sub-Cane White Iron Bals 18.0 Sub-Cane	d Oak 105 opy Species e Spruce nwood sam Fir	Medium 111-140 Density Low Full Low Inspecified	N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet	Size 5 - 10 feet Variable 5 - 10 feet	and ash in severe decline.
	Canopy Species Red Oak White Ash Sugar Maple Red Maple Basswood 4130 Canopy Species	% Cover 20 5 30 5 40 - Aspen % Cover	Size Class	18 12 12 11 14 Poletimb	105 105 er Well	475.4 Sub-Cane White Iron Bals 18.0 Sub-Cane Bals	d Oak 105 opy Species e Spruce nwood sam Fir 50 U opy Species	Medium 111-140 Density Low Full Low Inspecified Density	N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet N/A Avg. Height	Size 5 - 10 feet Variable 5 - 10 feet Size	and ash in severe decline.
	Canopy Species Red Oak White Ash Sugar Maple Red Maple Basswood 4130 Canopy Species White Ash	% Cover 20 5 30 5 40 - Aspen % Cover 3	Size Class	DBH 18 12 12 11 14 Poletimb	105 105 er Well	475.4 Sub-Cane White Iron Bals 18.0 Sub-Cane Bals Suga	d Oak 105 opy Species e Spruce nwood sam Fir 50 U opy Species sam Fir	Medium 111-140 Density Low Full Low Inspecified Density Low	N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet Variable Variable Variable Variable	Size 5 - 10 feet Variable 5 - 10 feet Variable Variable	and ash in severe decline.
	Canopy Species Red Oak White Ash Sugar Maple Red Maple Basswood 4130 Canopy Species White Ash Quaking Aspen	% Cover	Size Class	18 12 12 11 14 14 Poletimb DBH 10 9	105 105 er Well	475.4 Sub-Cane White Iron Bals 18.0 Sub-Cane Bals Suga Iron	opy Species e Spruce nwood sam Fir 50 U opy Species sam Fir ar Maple	Medium 111-140 Density Low Full Low Inspecified Density Low High	N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet Variable 10 - 20 feet	Size 5 - 10 feet Variable 5 - 10 feet Variable 10 - 20 feet	and ash in severe decline.
	Canopy Species Red Oak White Ash Sugar Maple Red Maple Basswood 4130 Canopy Species White Ash Quaking Aspen Red Oak White Spruce	% Cover 20 5 30 5 40 - Aspen % Cover 3 80 15	Size Class Size Class Seedling Seedling	DBH 18 12 12 11 14 Poletimb DBH 10 9 12 6	105 105 er Well	475.4 Sub-Cane White Iron Bals 18.0 Sub-Cane Bals Suga Iron	opy Species e Spruce nwood sam Fir 50 U opy Species sam Fir ar Maple nwood e Spruce	Medium 111-140 Density Low Full Low Inspecified Density Low High Medium	N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet N/A Avg. Height Variable 10 - 20 feet 5 - 10 feet	Size 5 - 10 feet Variable 5 - 10 feet Variable 10 - 20 feet Variable 10 - 20 feet Variable	white ash is dying stand 29 and 30 will hold or if cutting hardwood stand, then cut it. Oak is
29	Canopy Species Red Oak White Ash Sugar Maple Red Maple Basswood 4130 Canopy Species White Ash Quaking Aspen Red Oak White Spruce	% Cover	Size Class Size Class Seedling Seedling	18	105 105 105 er Well 1 Age	475.4 Sub-Cane White Iron Bals 18.0 Sub-Cane Bals Suga Iron White 6.9	opy Species e Spruce nwood sam Fir 50 U opy Species sam Fir ar Maple nwood e Spruce	Medium 111-140 Density Low Full Low Inspecified Density Low High Medium Low	N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet Variable 10 - 20 feet Variable 10 - 20 feet Variable Variable	Size 5 - 10 feet Variable 5 - 10 feet Variable 10 - 20 feet Variable 10 - 20 feet Variable	white ash is dying
29	Canopy Species Red Oak White Ash Sugar Maple Red Maple Basswood 4130 Canopy Species White Ash Quaking Aspen Red Oak White Spruce	% Cover	Size Class P Size Class Seedling Seedling	18	105 105 105 105 106 107 108 108 108 108 108 108 108 108 108 108	A75.4 Sub-Cane White Iron Bals 18.0 Sub-Cane Bals Suga Iron White 6.9 Sub-Cane	d Oak 105 opy Species e Spruce nwood sam Fir 50 U opy Species sam Fir ar Maple nwood e Spruce 50 U	Medium 111-140 Density Low Full Low Inspecified Density Low High Medium Low Inspecified	N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet N/A Avg. Height Variable 10 - 20 feet 5 - 10 feet Variable	Size 5 - 10 feet Variable 5 - 10 feet Variable 5 - 10 feet Variable 10 - 20 feet Variable 10 - 20 feet Variable	white ash is dying stand 29 and 30 will hold or if cutting hardwood stand, then cut it. Oak is
29	Canopy Species Red Oak White Ash Sugar Maple Red Maple Basswood 4130 Canopy Species White Ash Quaking Aspen Red Oak White Spruce 4130 Canopy Species	% Cover	Size Class P Size Class Seedling Seedling	DBH 18 12 12 11 14 Poletimb DBH 10 9 12 6 Poletimb DBH DBH DBH	105 105 105 105 106 107 108 108 108 108 108 108 108 108 108 108	A75.4 Sub-Cane White Iron Bals 18.0 Sub-Cane Bals Suga Iron White 6.9 Sub-Cane Bals	d Oak 105 opy Species e Spruce nwood sam Fir 50 U opy Species sam Fir ar Maple nwood e Spruce 50 U opy Species	Medium 111-140 Density Low Full Low Inspecified Density Low High Medium Low Inspecified Density	N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet N/A Avg. Height Variable 10 - 20 feet 5 - 10 feet Variable N/A Avg. Height Avg. Height	Size 5 - 10 feet Variable 5 - 10 feet Variable 10 - 20 feet Variable 10 - 20 feet Variable 5 - 10 feet Variable	white ash is dying stand 29 and 30 will hold or if cutting hardwood stand, then cut it. Oak is
29	Canopy Species Red Oak White Ash Sugar Maple Red Maple Basswood 4130 Canopy Species White Ash Quaking Aspen Red Oak White Spruce 4130 Canopy Species Red Oak Red Oak	% Cover	Size Class Size Class Seedling Seedling P Size Class	18	105 105 105 er Well 1 Age 50 er Well 1 Age	475.4 Sub-Cane White Iron Bals 18.0 Sub-Cane Bals Suga Iron White 6.9 Sub-Cane Bals White	d Oak 105 opy Species e Spruce nwood sam Fir 50 U opy Species sam Fir ar Maple nwood e Spruce 50 U opy Species sam Fir	Medium 111-140 Density Low Full Low Inspecified Density Low High Medium Low Inspecified Density Low Low Low Inspecified Density Low Inspecified Density Low	N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet N/A Avg. Height Variable 10 - 20 feet 5 - 10 feet Variable N/A Avg. Height Variable N/A Avg. Height Variable	Size 5 - 10 feet Variable 5 - 10 feet Variable 10 - 20 feet Variable 10 - 20 feet Variable Variable Variable Variable Variable	white ash is dying stand 29 and 30 will hold or if cutting hardwood stand, then cut it. Oak is



Stand	Level 4 Co	ver Type		Size De	ensity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
31	4130 - Canopy Species	Aspen % Cover	Size Class	Sapling	g Well I Age	2.0	6	Immature	N/A		Hipster Hwd cut 2018
	Red Maple	22	Log	1	. Age						
	Red Oak	3	Log	12							
	Quaking Aspen	75	Log	1	6						
32	4130 -	Aspen		Saplino	g Well	68.3	34	Immature	N/A		Tower Rd Walking Trail TS cut 1991. Most of the conifer is along road.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	Aspen 2" is more on west with the thicker conifer; some scattered 9-11" aspen
	White Spruce	2	Sapling	5		R	ted Pine	Trace	Variable	Variable	
	Bigtooth Aspen	40	Log	4	34	Ва	alsam Fir	Medium	5 - 10 feet	5 - 10 feet	
	Red Oak	8		6		R	Red Oak	Medium	5 - 10 feet	5 - 10 feet	
	Balsam Fir	3	Seedling	6		W	hite Pine	Trace	Variable	Variable	
	Quaking Aspen	40	Log	4	34	Wh	ite Spruce	Medium	5 - 10 feet	5 - 10 feet	
	Red Maple	5	Log	2							
	Paper Birch	2	Log	4							
33	4130 -	Aspen		Saplin	g Well	2.9	6	Immature	N/A		Hipster H wd TS cut 2018. Trace oak 8" dbh
	Canopy Species	% Cover	Size Class	DBH	l Age						
	Red Maple	22	Log	1							
	White Pine	3		10							
	Quaking Aspen	75	Log	1	6						
34	4130 -	Aspen	1	Poletimb	er Well	7.7	34	Immature	N/A	ı	Tower Road Walking Trail TS cut 1991; Oak regenerating along with the Aspen.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	лэрсп.
	Bigtooth Aspen	30	Seedling	6		Re	ed Maple	Medium	10 - 20 feet	10 - 20 feet	
	Red Oak	5	Pole	4		Ва	alsam Fir	Medium	Variable	Variable	
	Quaking Aspen	65	Seedling	6	34	Haze	elnut (Spp.)	Medium	5 - 10 feet	5 - 10 feet	
						R	Red Oak	Low	5 - 10 feet	5 - 10 feet	
						Wh	ite Spruce	Low	Variable	Variable	
35	4130 -	Aspen		Saplin	g Well	6.8	6	Immature	N/A	ı	Hipster Hwd TS cut 2018
	Canopy Species	% Cover	Size Class		l Age						
	Red Oak	1		14							
	Red Maple	17	Log	1							
	White Pine	2		12							
	Quaking Aspen	80	Log	1	6						
36		Aspen		Poletimb		38.5	34	Immature	N/A		Oak regenerating along with the Aspen. Tower Rd Walking Trail cut 1 1991. Some oak and white pine regeneration; not much conifer in this
	Canopy Species	% Cover	Size Class		l Age		nopy Species		Avg. Height	Size	stand.
	Red Oak	10		16		Suc	gar Maple	Low	5 - 10 feet	5 - 10 feet	
					 		· .				+
	Bigtooth Aspen Quaking Aspen	15 75	Sapling Seedling	5	34	R	Red Oak elnut (Spp.)	Low	10 - 20 feet 5 - 10 feet	10 - 20 feet 5 - 10 feet	



Stanc	Stand Level 4 Cover Type		Size Density			Acres	Stand Age	BA Range	Managed S	ite	General Comments
37	4130 - Aspen			Sapling W		11.5	6	Immature	N/A		Hipster Hwd TS cut 2018
	Canopy Species	% Cover	Size Class	DBH	l Age						
	Red Maple	25	Log	1							
	Quaking Aspen	75	Log	1	6						
38	4130 - Aspen			Poletimber Well		36.2 34 I		Immature	N/A		Tower Rd Walking Trail TS cut 1991
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	
	Red Maple	10	Log	4		R	ed Oak	Low	10 - 20 feet	10 - 20 feet	
	Red Oak	10		16		WI	nite Pine	Low	5 - 10 feet	5 - 10 feet	
	Bigtooth Aspen	13	Sapling	6		Haze	Inut (Spp.)	Medium	5 - 10 feet	5 - 10 feet	
	Sugar Maple	5	Log	3		Sug	ar Maple	Medium	10 - 20 feet	10 - 20 feet	
	Balsam Fir	2	Seedling	8							-
	Quaking Aspen	60	Seedling	6	34						
39	4130 - Aspen			Sapling	y Well	3.8	6	Immature	N/A	٨	Hipster Hwd TS cut 2018
	Canopy Species	% Cover	Size Class	DBH	l Age						
	Quaking Aspen	100	Log	1	6						
40	4130 - Aspen			Sapling	y Well	13.1	6	Immature	N/A	١	Hipster Hwd TS cut 2018
	Canopy Species	% Cover	Size Class	DBH	l Age						
	Balsam Poplar	20	Log	1							
	Quaking Aspen	80	Log	1	6						
41	6121 - Tamarack		Poletimber Well		9.3 95 Unsp		Unspecified	specified N/A		Tamarack dbh ranges from 7-11". Edges of stand is where most of re	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	maple/aspen/cedar are. 12/7/22: This unit was not cut with Hipster Hwd and returned.
	White Pine	2		14		Re	d Maple	Low	10 - 20 feet	10 - 20 feet	
	Tamarack	75		9	95	Ва	lsam Fir	High	Variable	Variable	
	Red Maple	15		12		Pa	oer Birch	Low	10 - 20 feet	10 - 20 feet	
	Quaking Aspen	5		12		Blac	k Spruce	Medium	Variable	Variable	
No	orthern White Cedar	3		9					•	,	-
42	4130	- Aspen		Sapling Well		70.5 34		Immature	N/A		Tower Rd Walking Trail cut 1991. More conifer on east lobe in far NW
	Canopy Species	% Cover	Size Class		l Age		nopy Species	s Density	Avg. Height	Size	(UF, VVF, DF U-O UDII)
	Red Oak	10		15			ed Oak	Low	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	90	Log	4	34		d Maple	Low	5 - 10 feet	5 - 10 feet	
						Haze	Inut (Spp.)	High	5 - 10 feet	5 - 10 feet	
43	622 - Lov	wland Shrub)	Nor	ne	29.8			No	1	



Stand	Level 4 Cover Type		Size Density	Acres Stand Age BA Range			Managed Site		General Comments	
45	4199 - Other Mixed Upland Deciduous			Poletimber Well	10.7	105	111-140	N/A		Split Sale cut 2008-2010
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Sugar Maple	35		9	Re	d Oak	Low	< 5 feet	< 5 feet	
	Red Maple	5	Seedling	9	Iror	nwood	High	5 - 10 feet	5 - 10 feet	
	Red Oak	45		16 105	Suga	ır Maple	Low	< 5 feet	< 5 feet	
	Basswood	15		12						
47	4130	- Aspen		Sapling Well	21.8	26	Immature	N/A	\	Walking Trail TS cut 1999. Some oak saplings are recruiting
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Bigtooth Aspen	20	Log	4	Bals	am Fir	Medium	Variable	Variable	
	Quaking Aspen	55	Log	4 26	Hazelr	nut (Spp.)	Medium	5 - 10 feet	5 - 10 feet	
	Red Maple	15	Log	2						
	Sugar Maple	5	Log	2						
	Red Oak	5		10						
48	4130 - Aspen			Poletimber Well	9.3 85 Unspecified		N/A		Intermittent drainage with bed/bank through this stand. Most of this stand ¬ is retention/buffers from previous harvests.	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Can	opy Species	Density	Avg. Height	Size	is retention/buriers from previous harvests.
	Red Maple	10		11	Tag	Alder	Low	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	80	Seedling	9 85	Bals	am Fir	Medium	Variable	Variable	
	White Pine	10		14	White	Spruce	Low	Variable	Variable	
					Hazelr	nut (Spp.)	Medium	5 - 10 feet	5 - 10 feet	
49	4130 - Aspen		Poletimber Well	12.9	53 L	Inspecified	N/A	\	Trace red pine logs; red maple saps 4-5" dbh; bigtooth is larger and in	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Can	opy Species	Density	Avg. Height	Size	scattered pockets + along road. This stand will hold.
	Quaking Aspen	60	Seedling	8 53	White	Spruce	Low	Variable	Variable	
	Bigtooth Aspen	10		11	Red	Maple	Medium	>20 feet	>20 feet	
	White Pine	5		14	Bals	am Fir	Medium	Variable	Variable	
	Red Maple	20	Pole	4	Whi	te Pine	Low	Variable	Variable	
	White Spruce	5		12	Hazelr	nut (Spp.)	High	5 - 10 feet	5 - 10 feet	
50	4130	- Aspen		Sapling Well	54.1	16	Immature	N/A	1	Febrile Aspen TS cut 2009
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Red Oak	1	Seedling	9	Re	d Oak	Low	< 5 feet	< 5 feet	
	Red Maple	15	Log	1	Bals	am Fir	Low	Variable	Variable	
	White Pine	4		16	Whi	te Pine	Low	< 5 feet	< 5 feet	
	Quaking Aspen	80	Log	3 16			'			_



Stand	Level 4 Cover Type 4110 - Sugar Maple Association			Size Density Poletimber Well		Acres	Stand Age B	BA Range	Managed Site		General Comments ONeill TS cut 1991-92. Lower BAs, heavier ironwood saplings along
51						218.7	105	81-110			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Tower Rd. Lots of basswood clumps. There is a wet conifer/ash swale in southwest lobe of this stand to protect. Hipster Hwd TS cut 2020-
	Red Oak	13		14		Iro	onwood	Medium	10 - 20 feet	10 - 20 feet	2022.
	Sugar Maple	55		10	105	Lea	therwood	Low	5 - 10 feet	5 - 10 feet	
	Basswood	30		14		Whi	te Spruce	Low	Variable	Variable	
	White Ash	1		9				'			_
	Bigtooth Aspen	1		12							
52	4130	30 - Aspen		Poletimber Well		24.4 60	60	81-110	N/A	1	There are hardwood knobs in here which are low quality (cracks, defect,
	Canopy Species	% Cover	Size Class	DBH	Age						broken limbs); low spot in east finger will serve retention. Keep all oak (only a few)
	Sugar Maple	25		10							(5.11) 4.1511)
	Basswood	10		12							
	Quaking Aspen	65	Seedling	8	60						
400	310 - Herbad	eous Open	land	Nor	ne	2.8			No		OPIC - FMD: Site Index is from previous OI data.