

Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12062 Entry Year: 2027 Acreage: 2,075

Management Area: Ralph Moraine

County: Dickinson

Stand Examiner: Deb Goupell

Legal Description:

T42N R28W Sec 9, 10, 15-17

Identified Planning Goals:

Manage for a sustainable yield in all forested cover types with aspen being prescribed for cut at age 50, per Management Area guidelines.

Soil and topography:

Fine sandy loams and rock outcrops for most of the uplands. Lowlands are Carbondale/Cathro/Waucedah mucks.

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

There are a number of private landowners within and adjacent to this compartment. It is heavily used for hunting, trapping and ATV riding.

Unique Natural Features:

Two branches of the Skunk Creek flow through this compartment.

Archeological, Historical, and Cultural Features:

None noted

Special Management Designations or Considerations:

This has been a historic deer wintering area.

Watershed and Fisheries Considerations:

Protect branches of Skunk Creek and East Branch Skunk Creek (Designated Trout Streams) with a 300 foot buffer for 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. There are also wetland areas within this compartment

(https://www.mcgi.state.mi.us/wetlands/mcgiMap.html#) If any treatments are near a wetland area, best management practices should be incorporated which include a 100' buffer. Streams, regardless of their size or frequency of flow, are connected to downstream waters and strongly influence their function. Additionally, wetlands and open waters in riparian areas and floodplains are physically, chemically, and biologically integrated with rivers via functions that improve downstream water quality. These systems act as effective buffers to protect downstream waters from pollution and are essential components of river food webs. BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

Wildlife Habitat Considerations:

This compartment in part of a historic deer wintering complex so white-tailed deer was selected as a featured species. Maintenance and enhancement of conifer species to provide thermal cover, travel corridors, and dispersal through uplands to obtain forage will be critical. Maintenance of forest openings and mast producing trees and shrubs is very important for both deer and bear. Maintaining the integrity of lowland conifers, lowland hardwoods, riparian corridors, vernal pools and drainages will provide for necessary black bear habitat. Mature forest conditions that provide nesting and foraging habitat for northern goshawk will be part of this compartment's management. Incorporating smaller aspen stands, increased age-class diversity, and adequate conifer as a stand component will enhance this compartment for grouse and woodcock.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest known active sand/gravel pit is less than two miles south, and two miles southeast is a quarry mining Randville dolomite. There is some good potential for development of gravel within the compartment on the uplands, but the glacial sediments also appear to be clay-rich. Furthermore, the compartment 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. Significant past metallic mineral exploration test drilling was completed within and in the immediate vicinity of the compartment. Evidence from test drilling and geophysical data indicate the presence of iron-bearing formations beneath the compartment, but any ore deposits may be too deep and/or too low grade to be economical to mine. The setting is also suitable for the occurrence of other metallic and critical minerals, but there has been no identified legitimate prospects and no leasing activity in the area involving State-owned mineral rights within the past 15 years. Potential for future production of metallic minerals from within the compartment is considered low at this time

Vehicle Access:

Skunk Creek Rd on the south boundary; poor dirt roads or trails access most of the rest of the compartment.

Survey Needs:

Yes

Recreational Facilities and Opportunities:

Stream fishing, hunting, trapping, ATV riding, dispersed camping available in this compartment.

Fire Protection:

Felch protection area.

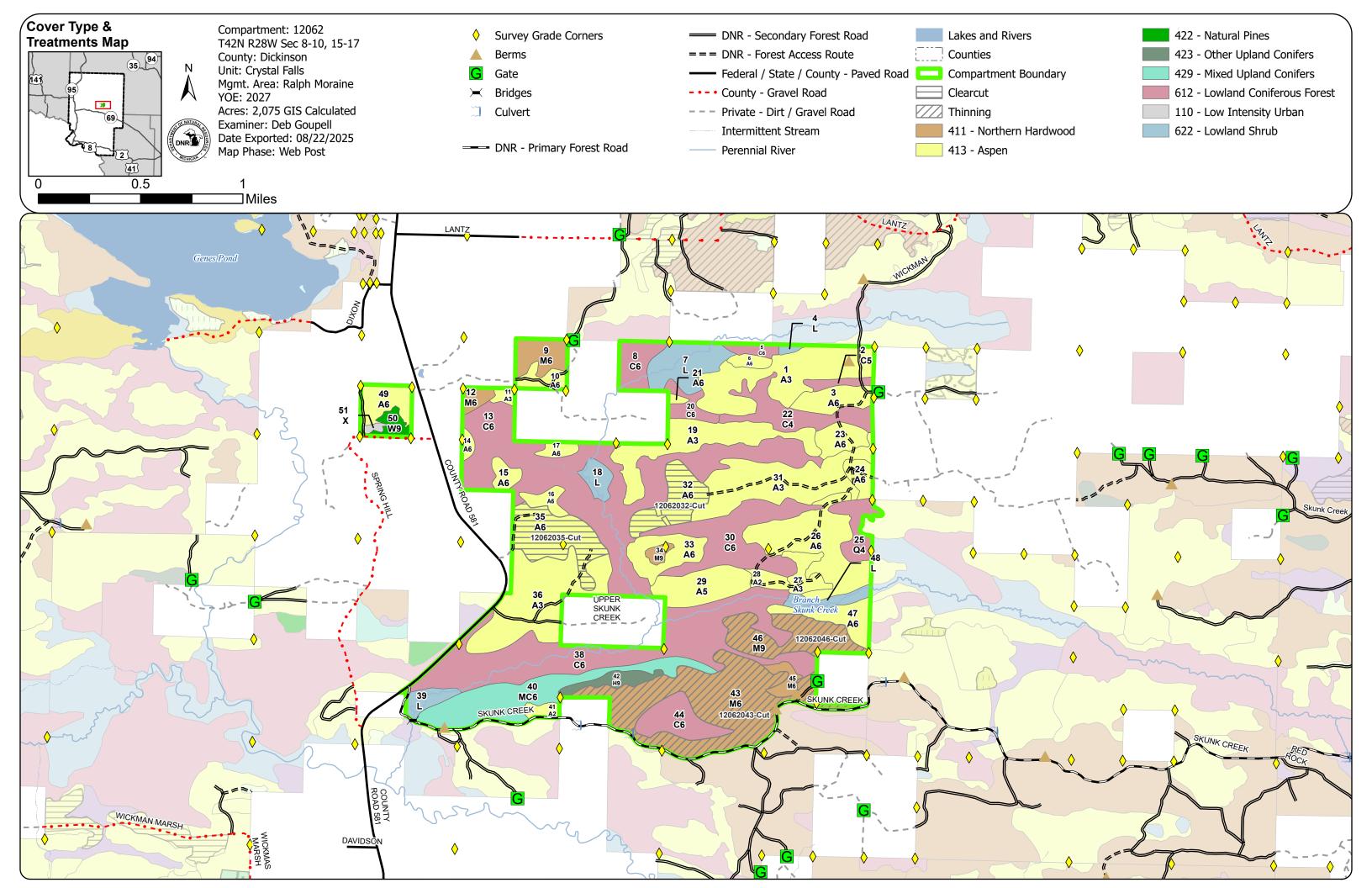
Additional Compartment Information:

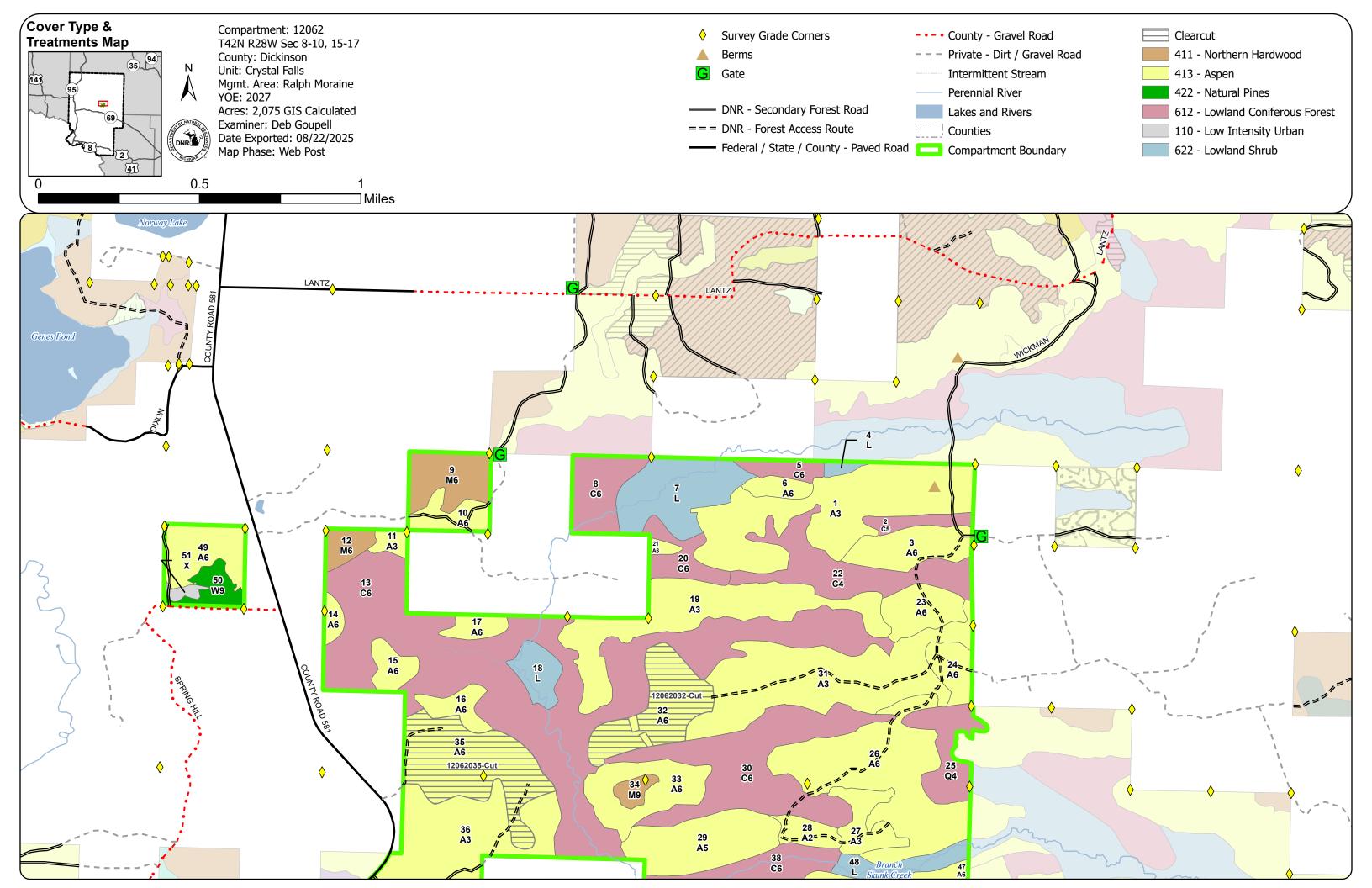
The following reports from the Inventory are attached:

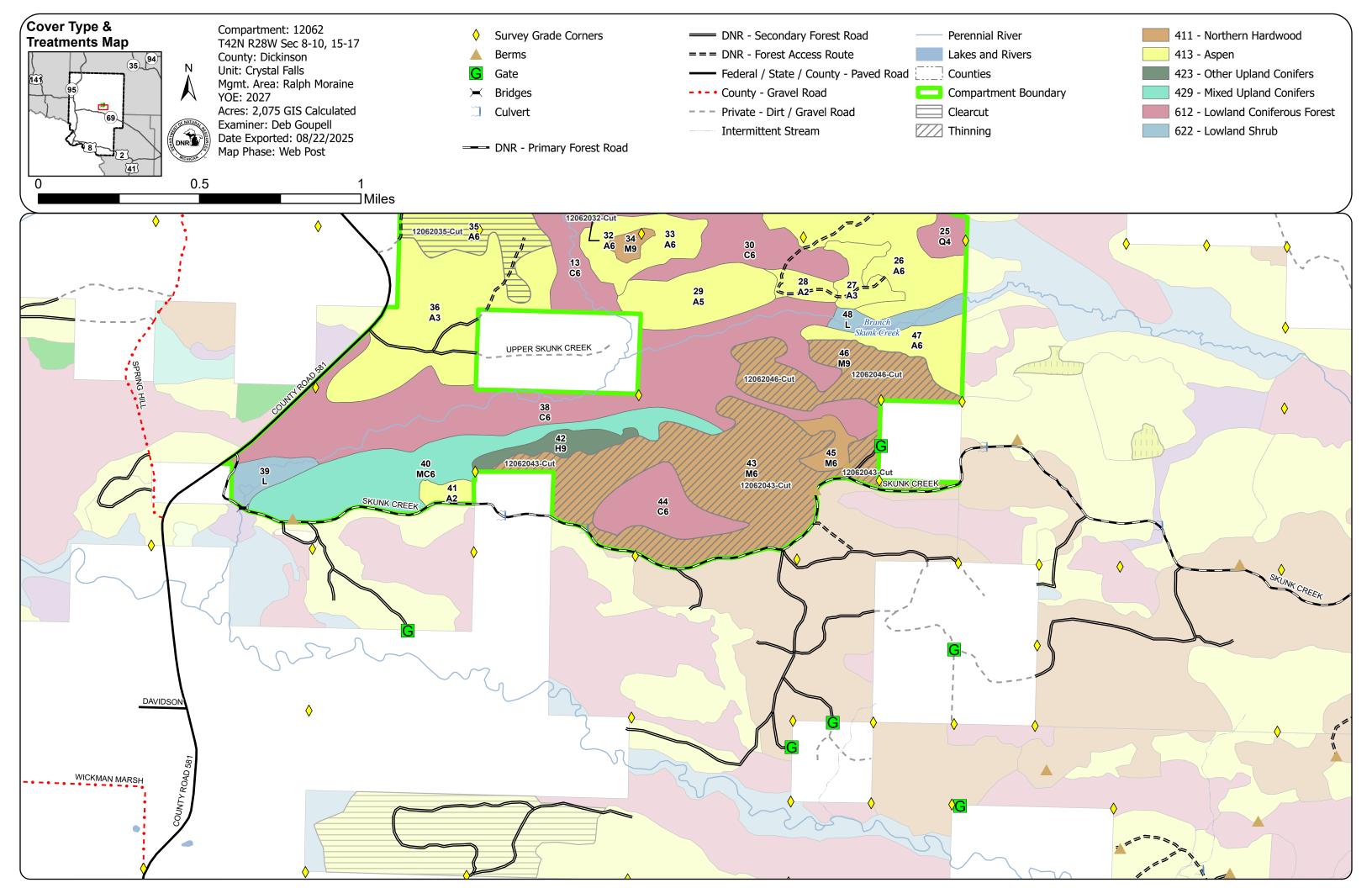
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

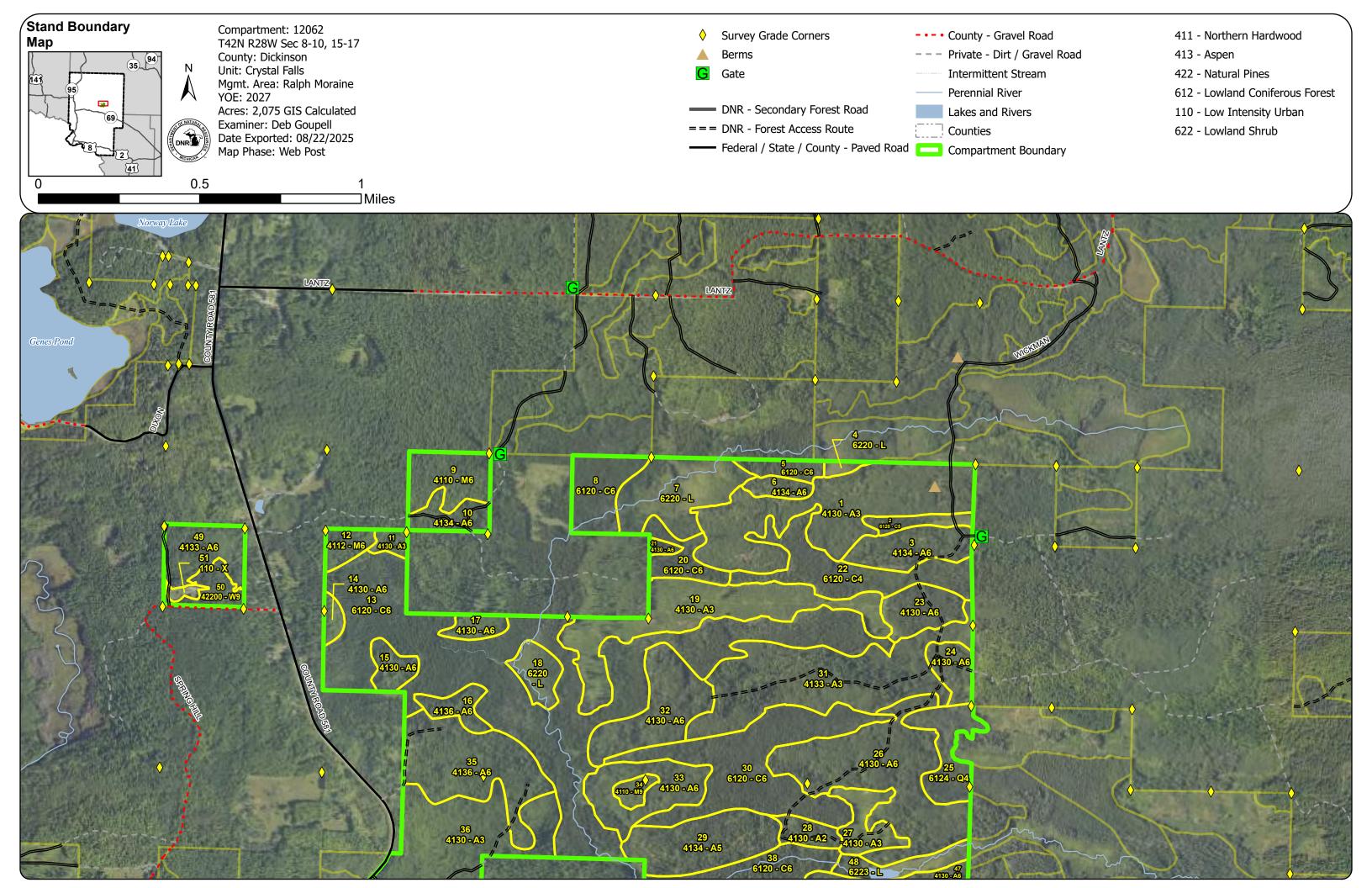
The following information is displayed, where pertinent, on the attached compartment maps:

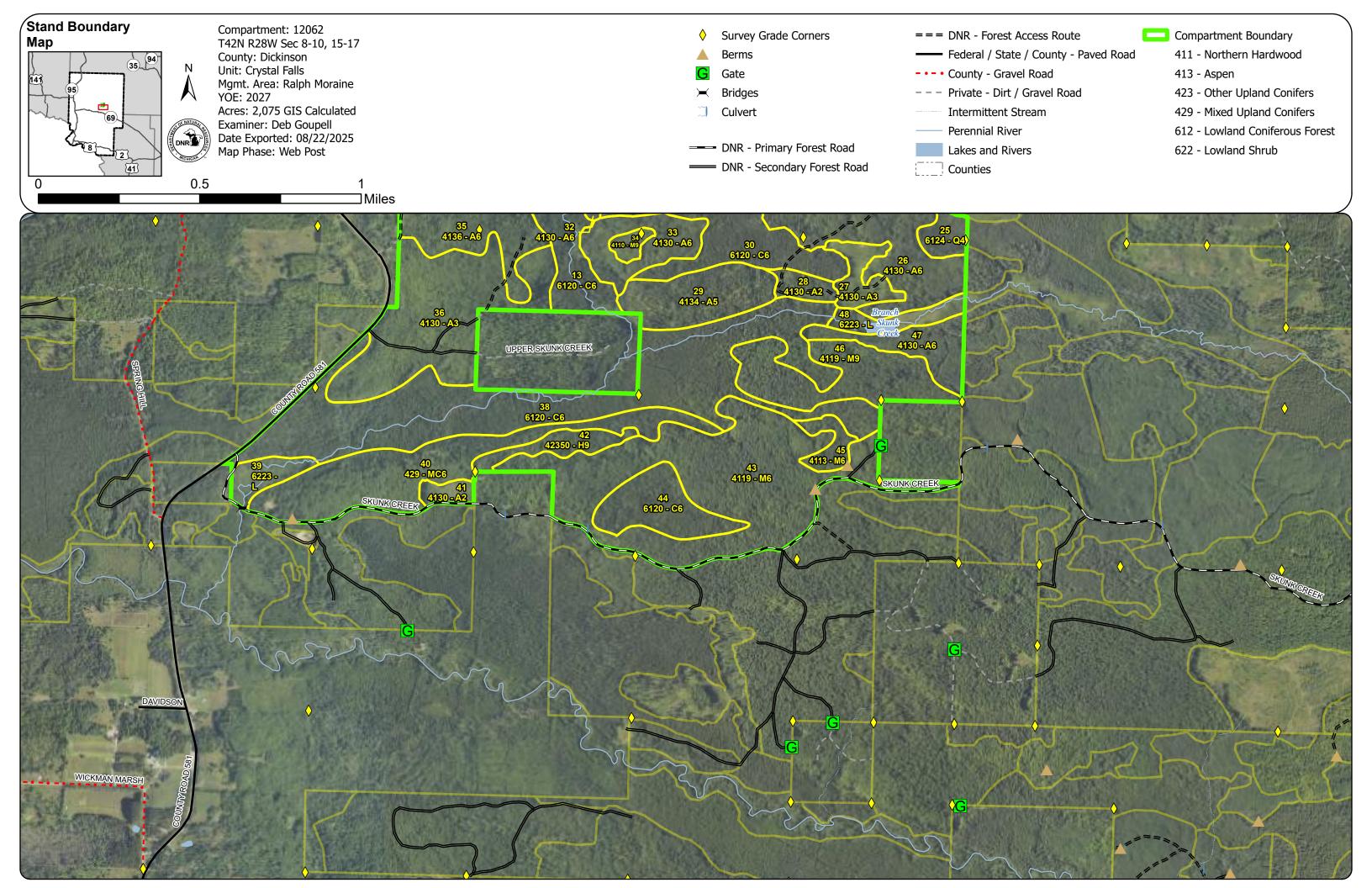
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

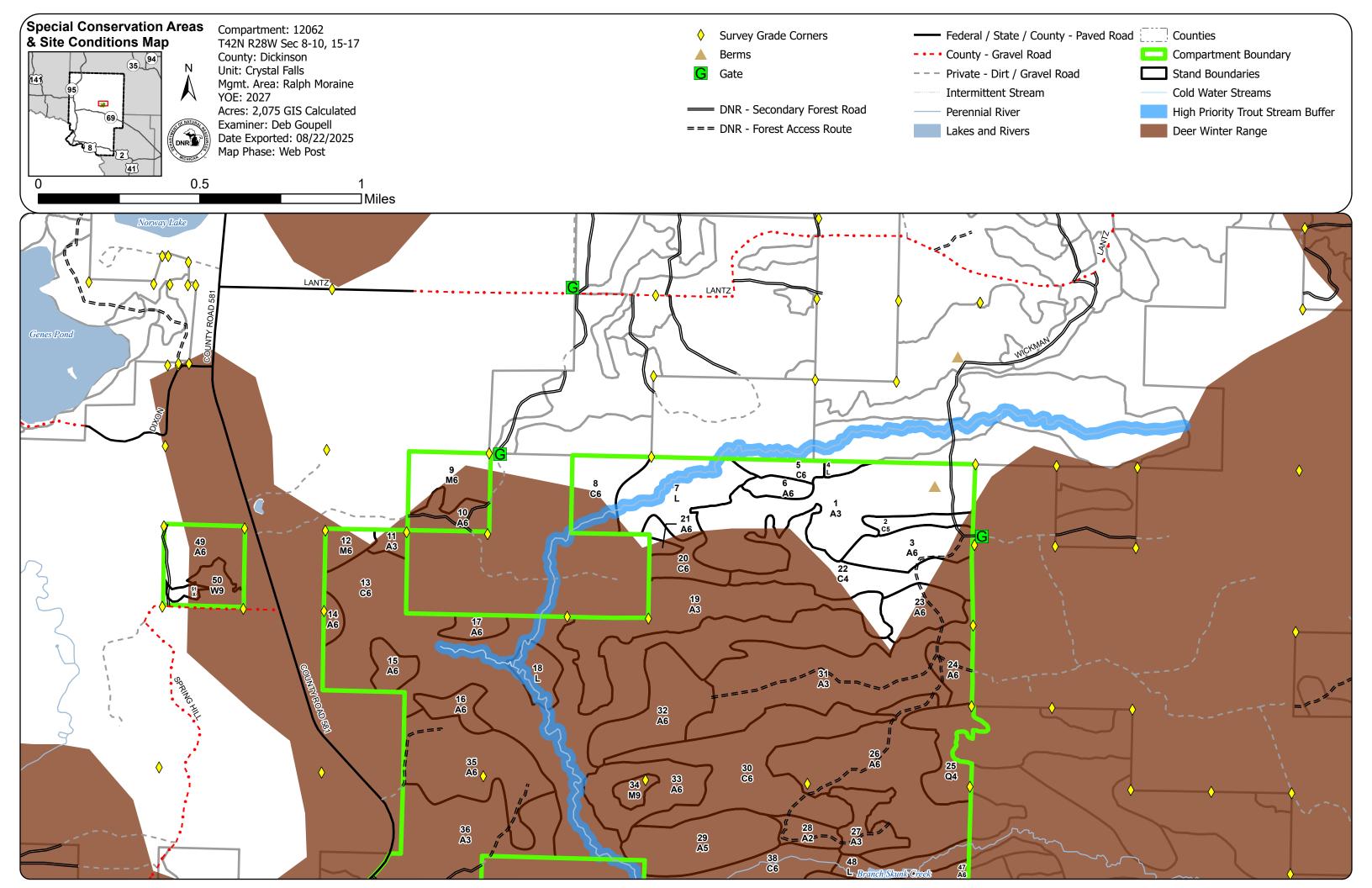


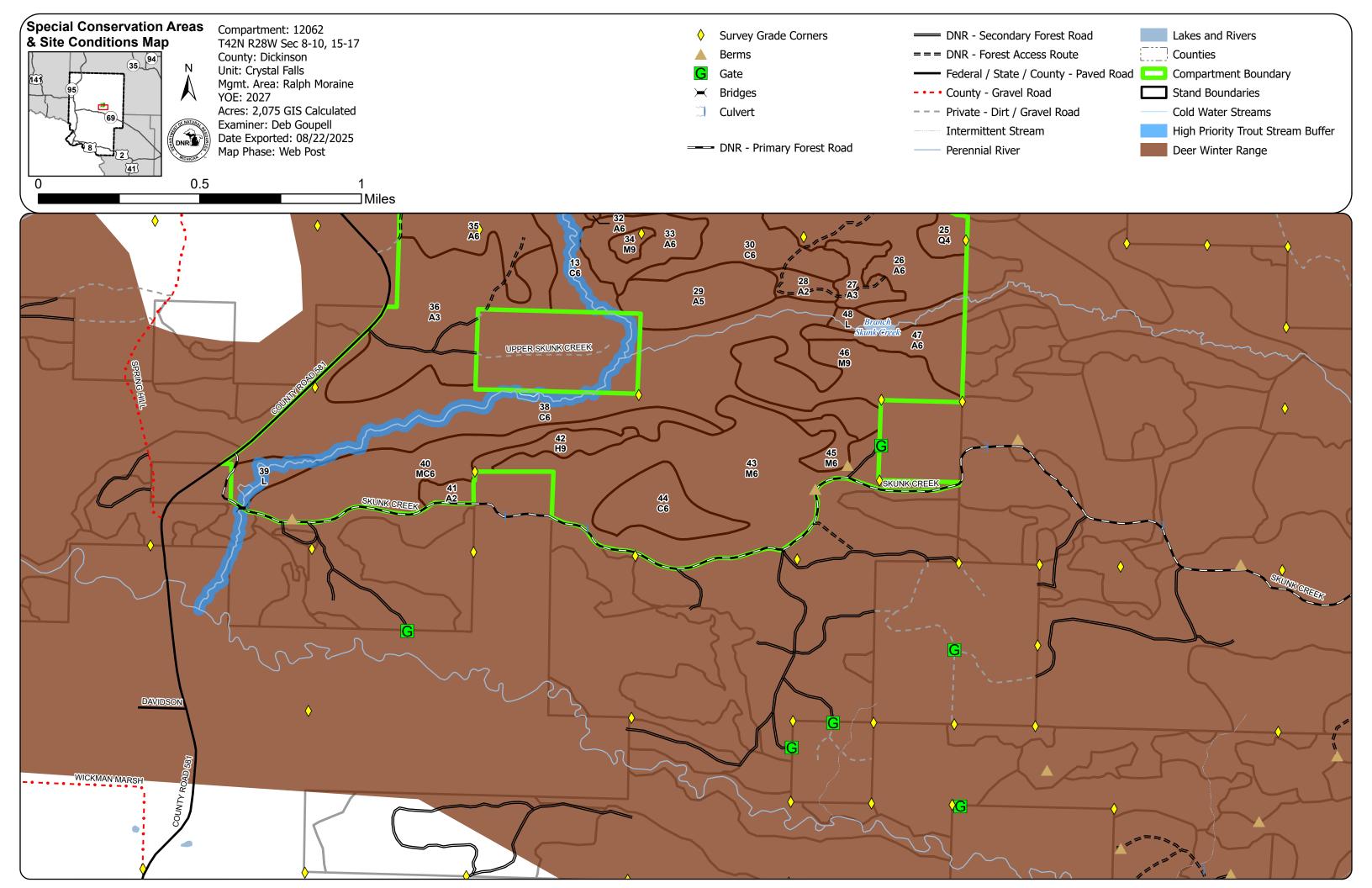












Compartment 62 Year of Entry 2027

Crystal Falls Mgt. Unit Deb Goupell: Examiner



Age Class

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91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	i
0	0	0	0	0	11	0	0	0	0	0	238	0	0	0	0	0	41	290	i
0	0	0	0	91	0	0	0	0	0	0	0	0	0	0	0	0	0	90	i
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	ı
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Report 2 – Treatment Summary

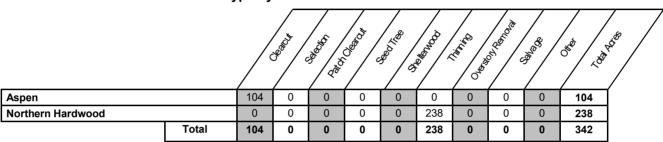
Crystal Falls Mgt. Unit Year of Entry: 2027

Acres of Harvest

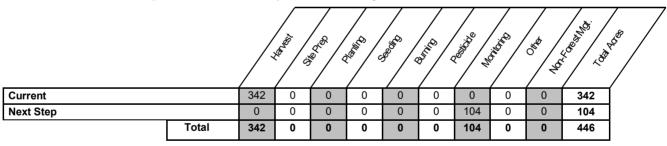
Compartment 62
Total Compartment Acres: 2,075

Commercial Harvest - 447 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Compartment: 12062

Planting

Record

No



S t	J	i y Stai i aii	o mgt. omt		Kepoi	(3)	reauments		Year of Entr		DNR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
opose	ed Treatmer	ıts:									
32	12062032-Cut	40.8	4130 - Aspen	6	50	Unspeci fied	Harvest	Clearcut	413 - Aspen	Planting Record	No
Trea	cs: left as t Step Monito atments:	retention (s	tems " and up. Reta shown in treatment). al Regen (Re-Inven	tory)	-	, ,	·				
Rege	en:	mixed nar	dwood, mixed softw	/00 0							
Othe Com	<u>er</u> nment:										
	Condition:	: 10/01/20									
	osed Start Date										

Final harvest all stems 3" and greater except cedar, white/red pine, hemlock, Red pine pocket will be kept as retention as well as conifer in the Prescription northwest corner. Retain clumps of live submerchantable conifer where available. Specs:

Harvest

50 Unspeci

fied

Clearcut

413 - Aspen

Next Step Monitoring, Natural Regen (Re-Inventory)

62.8 4136 - Aspen, Mixed

Conifer

Treatments:

12062035-Cut

Acceptable aspen, mixed softwood, mixed hardwood

Regen: **Other** Comment:

Site Condition:

Proposed Start Date: 10/01/2026

Thinning Planting 12062043-Cut 176.6 4119 - Mixed 101 111-Harvest 411 - Northern No Northern Hardwoods 140 Hardwood Record

Prescription Thin to 70 BA following Compleat Marker. Retain some representation of minor species. No cedar, pine, hemlock, conifer will be cut. WLD requests this be a winter only harvest to feed deer. Specs:

Next Step Treatments:

Acceptable mixed hardwood, mixed softwood

Regen:

Other Be mindful of vernal ponds keeping 70% canopy cover

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

Planting 12062046-Cut 61.8 4119 - Mixed 9 102 111-Harvest Thinning 411 - Northern No Northern Hardwoods 140 Hardwood Record

Prescription Thin to 70 BA following Compleat Marker. Retain some representation of minor species. No cedar, pine, hemlock, conifer will be cut. Specs:

Next Step **Treatments:**

Acceptable mixed hardwood, mixed softwood

Regen: **Other**

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

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

Total Treatment 342 Acreage Proposed:

Report 4 - Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell: Examiner

Compartment: 62 Year of Entry: 2027



Availability for Management Total Acres Acres Avail Acres **Dominant Site Conditions** Available With Condition Not Available 3J 3L Acres 3Н 5E 758 9 3 2 4 767 0 Aspen 671 93 578 Cedar 569 0 17 17 0 Hemlock 0 25 25 0 **Lowland Conifers** 0 90 91 0 Lowland Shrub 0 290 290 0 0 Northern Hardwood 90 91 0 0 **Upland Conifers** 3 3 0 Urban 0 12 0 White Pine 12 1,964 588 1,377 **Total Forested Acres** 572 2 4 30% 70% 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.

ι	Unavailable	3J: Water quality/BMPs					
		(stream, river, or lake)	9	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comi	ments:						
ι	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Com	ments:						
· (Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	370	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comi	ments:						

Report 4 - Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell: Examiner

Compartment: 62 Year of Entry: 2027



8 Unavailable 3L: Other wildlife concerns 2 2H: Blocked by physical Unspecified Unspecifie

Comments:

Need to harvest through cedar to access this stand; water draining along east edge of this stand northerly. Low volume to capture for roadwork necessary to access. Other possibility is to access through private

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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				



Stan	d Level 4 Cover Type		Size Density		Acres	Stand Age	BA Range	e Managed Site		General Comments
1	4130	- Aspen		Sapling Well	99.2	15	Immature	N/A		Goat Country TS cut 2010; wet pockets in here, very rocky
	Canopy Species	% Cover	Size Class	DBH Age						
	Balsam Poplar	15	Log	3						
	Balsam Fir	5	Pole	3						
	Quaking Aspen	80	Log	3 15						
2	6120 - Lo	wland Ceda	ır F	oletimber Medium	8.6	92	Unspecified	N/A		Most of the cedar is on west half of stand. Cutting only merchantable wood to where cedar is predominant. No cedar to be cut. Very wet. Did
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	not find bed and bank but there is definite drainage through here. Skunk
N	orthern White Cedar	50		9 92	T	ag Alder	Medium	5 - 10 feet	5 - 10 feet	Creek Scraps TS cut 2020, about 2-3 acre along road, recruiting to
	Balsam Poplar	5		14						T1/T2 with a few black spruce
	Black Spruce	10	Seedling	8						
	Tamarack	35	Pole	1 5						
3	4134 - Asp	en, Spruce/	Fir	Poletimber Well	26.0	29	Immature	N/A		Upper Skunk Ck Club TS cut 1996. Rocky site
	Canopy Species	% Cover	Size Class	DBH Age						
	Balsam Poplar	15	Seedling	5						
	Balsam Fir	15	Sapling	5						
	Quaking Aspen	60	Seedling	5 29						
	White Spruce	10	Seedling	5						
4	6220 - A	lder/Willow		None	3.0			No		OPIC - FMD: OI Stand Year Origin was 1910
5	6120 - Lo	wland Ceda	r	Poletimber Well	9.0	115	Unspecified	N/A		stand is within 300' buffer to Skunk Creek
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
N	orthern White Cedar	70	Seedling	8 115	T	ag Alder	High	5 - 10 feet	5 - 10 feet	
	Tamarack	30	Seedling	9						
6	4134 - Asp	en, Spruce/	Fir	Poletimber Well	7.6	39	Unspecified	N/A		Stand cut 1986. Stand is on a rock ridge
	Canopy Species	% Cover	Size Class	DBH Age						
	Quaking Aspen	50	Seedling	5 39						
	Red Maple	25	Sapling	5						
	Balsam Fir	25	Sapling	6 39						
7	6220 - A	lder/Willow		None	44.6			No		
8	6120 - Lo	wland Ceda	r	Poletimber Well	25.6	115	111-140	N/A		Skunk Creek passes in the south portion of this stand.
	Canopy Species	% Cover	Size Class	DBH Age						
N	orthern White Cedar	95		10 115						
	Tamarack	5	Seedling	8						

Crystal Falls Mgt. Unit Report 7 – Stands



Stand	d Level 4 Cover Type		Size Density	Acres	Stand Age	BA Range	Managed S	ite	General Comments	
9	4110 - Sugar N	Maple Assoc	ciation	Poletimber Well	25.7	101	81-110	N/A		Private Access TS cut 2010. State received this 40 in 1993 in an
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	exchange. White ash & ironwood very thick in east half, where BAs are more around 110
	Paper Birch	2		11	W	hite Ash	High	10 - 20 feet	10 - 20 feet	
	Basswood	37		12	In	onwood	Medium	Variable	Variable	
	Red Maple	1		10						
	Sugar Maple	60		13 101						
10	4134 - Asp	en, Spruce/	Fir	Poletimber Well	13.7	33	Immature	N/A	\	Cut 1992; State received this 40 in 1993 in trade
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	
	White Spruce	10	Sapling	6	Haze	elnut (Spp.)	High	5 - 10 feet	5 - 10 feet	
	Balsam Fir	10	Sapling	6						-
	Ironwood	5	Sapling	5						
	Black Cherry	5	Pole	4						
	Quaking Aspen	70	Sapling	5 33						
11	4130	- Aspen		Sapling Well	5.1	15	Immature	N/A	1	Private Access TS cut 2010
	Canopy Species	% Cover	Size Class	DBH Age						
	White Pine	5		18						
	Quaking Aspen	95	Log	2 15						
12	4112 - Maple, Beed	ch, Cherry A	ssociation	Poletimber Well	9.3	101	81-110	N/A	\	Big bowl in center of stand. Some impressive sugar maple relics. White pine super canopy. South edge of stand has more conifer/pine/birch.
	Canopy Species	% Cover	Size Class		Sub-Ca	nopy Species	s Density	Avg. Height	Size	Very heavy browse. White birch is falling out.
	Sugar Maple	60		12 101		hite Pine	Low	< 5 feet	< 5 feet	
	Yellow Birch	3		10	Ba	alsam Fir	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	2	Seedling		In	onwood	Low	Variable	Variable	
	Ironwood	2	Seedling							
	White Spruce	3	Seedling							
	Red Maple	20		12						
	White Pine	10		18						
13	6120 - Lo	wland Ceda	r	Poletimber Well	243.8	115	Unspecified	N/A	\	Cedar dbhs range all over. Larger diameters on stand perimeters. Very wet stand.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	wet stalid.
	Black Spruce	8	Seedling	8	Ta	ag Alder	High	5 - 10 feet	5 - 10 feet	
	Balsam Fir	2	Seedling	7	BI	ack Ash	Medium	Variable	Variable	
No	orthern White Cedar	90		10 115						
14	4130	- Aspen		Poletimber Well	5.0	34	Immature	N/A	\	Stanton Line TS cut 1991. Stand is moving into pole size
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	
	White Pine	1		16	Ва	alsam Fir	Low	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	94	Sapling	5 34	Wh	ite Spruce	Low	5 - 10 feet	5 - 10 feet	
	White Spruce	5	Log	2						



Stanc	Level 4 Co	over Type		Size Density	Acres	Stand Age	BA Range	Managed S	ite	General Comments
15	4130 -	- Aspen		Poletimber Well	10.4	34	Immature	N/A		Stanton Line TS cut 1991. Canopy closure closer to 75%. just moving
	Canopy Species	% Cover	Size Class	DBH Age						into pole size
	Quaking Aspen	80	Sapling	5 34						
	White Spruce	5	Log	4						
	Balsam Fir	5	Sapling	5						
	Balsam Poplar	10	Sapling	5						
16	4136 - Aspen	, Mixed Co	nifer	Poletimber Well	11.1	34	Immature	N/A		Stanton Lines TS cut 1991; tamarack is more on edges. Stand just moving into pole size
	Canopy Species	% Cover	Size Class	DBH Age						moving into pole size
	Balsam Poplar	10	Log	4						
	Quaking Aspen	70	Sapling	5 34						
	Balsam Fir	10	Seedling	6						
	Tamarack	5	Log	2						
	White Spruce	5	Sapling	5						
17	4130 -	- Aspen		Poletimber Well	8.0	34	Immature	N/A		Stanton Line TS cut 1991. BAs 4-7", stand moving into pole size
	Canopy Species	% Cover	Size Class	DBH Age						
	Balsam Poplar	5	Log	4						
	Quaking Aspen	85	Sapling	5 34						
	Balsam Fir	5	Sapling	5						
	White Spruce	5	Sapling	5						
18	6220 - Al	der/Willow		None	13.6			No		
19	4130 -	- Aspen		Sapling Well	73.5	5	Immature	N/A		Skunk Creek Scraps cut 2020
	Canopy Species	% Cover	Size Class	DBH Age						
	Quaking Aspen	100	Log	1 5						
20	6120 - Lov	vland Ceda	ır	Poletimber Well	15.8	102	Unspecified	N/A		center/west of this stand has stunted BS & WC 1-4" dbh. This is a very
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	wet stand.
No	orthern White Cedar	90		10 102	Ва	alsam Fir	Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	10	Seedling	5	Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
					Wh	ite Spruce	Medium	5 - 10 feet	5 - 10 feet	
21	4130 -	- Aspen		Poletimber Well	2.4	92	Unspecified	N/A		Significant conifer mortality. Balsam fir 5-15 feet regeneration. Stand
	Canopy Species		Size Class	DBH Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	surrounded by cedar, running water on east end. Would be a very difficult stand to access WLD prefered to retain this stand
	Quaking Aspen	99		11 92		ite Spruce	Medium	Variable	Variable	·
	White Pine	1		16	Ва	alsam Fir	Low	Variable	Variable	



Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed Sit	e	General Comments
22	6120 - Lo	wland Ceda	ır I	Poletimb	er Poor	47.1	94	Unspecified	N/A		Stand is extremely wet. Pockets of S3, tag, Q4.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
	Black Spruce	12	Pole	4		Ta	ag Alder	High	5 - 10 feet	5 - 10 feet	
	Black Ash	5	Log	4		Bla	ack Ash	Medium	Variable	Variable	
	Tamarack	3	Seedling	6							
N	orthern White Cedar	80	Seedling	8	94						
23	4130	- Aspen		Poletimb	er Well	20.5	29	Immature	N/A		Upper Skunk Ck Club TS cut 1996. some upland balm of gilead and
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	conifer on north
	Balsam Fir	5	Sapling	6		Whi	te Spruce	Low	Variable	Variable	
	Quaking Aspen	90	Seedling	7	29	Ва	lsam Fir	Medium	Variable	Variable	
	Balsam Poplar	5	Sapling	7							_
24	4130	- Aspen		Poletimb	er Well	13.1	29	Immature	N/A		Upper Skunk Ck Club TS cut 1996
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
	Quaking Aspen	100	Sapling	5	29	Whi	te Spruce	Low	Variable	Variable	
				'		Ва	lsam Fir	Low	Variable	Variable	
						WI	nite Pine	High	Variable	Variable	
25	6124 - Lowl	and Spruce	-Fir I	Poletimb	er Poor	24.6	95	Unspecified	N/A		Stand is very wet except for the upland knob on the east side, which should be cut with adjacent stand/compartment (YOE 2018).
	Canopy Species		Size Class		Age						should be cut with adjacent stand/compartment (10E 2016).
	Balsam Poplar	10		14							
	Quaking Aspen	10		12							
	White Spruce	15	Seedling	8							
	Black Ash	20	Sapling	6							
	Black Spruce	40	Seedling	7	95						
N	orthern White Cedar	5	Seedling	9							
26	4130	- Aspen		Poletimb	er Well	90.9	29	Immature	N/A		Upper Skunk Ck Club TS cut 1996. Dbhs 3-6"
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
	Quaking Aspen	100	Sapling	5	29	Ва	lsam Fir	Medium	Variable	Variable	
						Whi	te Spruce	Medium	Variable	Variable	
		Aanan		Sapling	Well	17.0	5	Immature	N/A		Skunk Creek Scraps TS cut 2020
27	4130	- Aspen		Capilli							
27	4130 Canopy Species		Size Class		Age						
27			Size Class								
27	Canopy Species	% Cover	Size Class	DBH							



Stand	d Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed Si	te	General Comments
28	4130	- Aspen	S	apling I	Medium	9.7	29	Immature	N/A		Upper Skunk Ck Club TS cut 1996; top of a knob. aspen thinner on top
	Canopy Species	% Cover	Size Class	DBH	l Age						than edges and east end of stand
	Quaking Aspen	65	Log	4	29						
	White Spruce	5	Log	3							
	Black Cherry	2	Log	3							
	Balsam Fir	10	Pole	4							
	Red Maple	15	Log	2							
	White Pine	3	Log	3							
29	4134 - Aspe	en, Spruce/	Fir Pol	etimbe	Medium	44.7	46	Unspecified	N/A		East Br. Skunk Ck TS cut 1979. This stand is on a rock; north facing
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	slope has more conifer 2-6" dbh; top of rock is very scattered trees mostly less than 5"dbh. South and east of rock is thicker to aspen. Not
	Balsam Fir	10	Seedling	8	46	Bal	lsam Fir	Medium	Variable	Variable	easily accessible great retreat for bear/deer. Some mortality in conifer
	White Spruce	10	Seedling	8		Whit	e Spruce	Low	Variable	Variable	from SBW . Traces of black cherry on rock top and black spruce on
	Quaking Aspen	55	Sapling	7	46	Blac	k Cherry	Medium	Variable	Variable	north facing slope 1"dbh.
	Red Pine	5		12					'		_
	Red Maple	10	Pole	4							
	White Pine	10		12							
30	6120 - Lov	uland Cada									
	0120 201	wiand Ceda	r P	oletimb	er Well	84.4	94	81-110	N/A		This stand is very wet.
	Canopy Species		Size Class		er Well I Age		94 nopy Species		N/A Avg. Height	Size	This stand is very wet.
			•			Sub-Car	•				This stand is very wet.
	Canopy Species	% Cover	•	DBH	l Age	Sub-Car Bal	nopy Species	Density	Avg. Height	Size	This stand is very wet.
	Canopy Species orthern White Cedar	% Cover	Size Class	DB F	l Age	Sub-Car Bal	nopy Species	S Density Medium	Avg. Height Variable	Size Variable	This stand is very wet.
	Canopy Species orthern White Cedar Tamarack	% Cover 80 7 13	Size Class Seedling Seedling	9 8	94	Sub-Car Bal	nopy Species	S Density Medium	Avg. Height Variable	Size Variable 5 - 10 feet	Pine Ridge TS cut 2000. White pine regen good near seed sources but
No	Canopy Species orthern White Cedar Tamarack Black Spruce	% Cover 80 7 13 en, Mixed Pi	Size Class Seedling Seedling	DBH 9 8 7 Sapling	94	Sub-Car Bal Ta	nopy Species Isam Fir g Alder	Medium High	Avg. Height Variable 5 - 10 feet	Size Variable 5 - 10 feet	
No	Canopy Species orthern White Cedar Tamarack Black Spruce 4133 - Aspe	% Cover 80 7 13 en, Mixed Pi	Size Class Seedling Seedling	DBH 9 8 7 Sapling	94 94 g Well	Sub-Car Bal Ta 98.5 Sub-Car	nopy Species Isam Fir g Alder 25	Medium High	Avg. Height Variable 5 - 10 feet N/A	Size Variable 5 - 10 feet	Pine Ridge TS cut 2000. White pine regen good near seed sources but
No	Canopy Species orthern White Cedar Tamarack Black Spruce 4133 - Aspe	% Cover 80 7 13 en, Mixed Pi % Cover	Size Class Seedling Seedling ne Size Class	DBH 9 8 7 Sapling	94 94 Well	Sub-Car Bal Ta 98.5 Sub-Car	nopy Species Isam Fir g Alder 25 nopy Species	Medium High 51-80 Bensity	Avg. Height Variable 5 - 10 feet N/A Avg. Height	Size Variable 5 - 10 feet	Pine Ridge TS cut 2000. White pine regen good near seed sources but
No	Canopy Species orthern White Cedar Tamarack Black Spruce 4133 - Aspe Canopy Species Quaking Aspen	% Cover 80 7 13 en, Mixed Pi 70 70	Size Class Seedling Seedling ne Size Class Log	9 8 7 Sapling DBH	94 94 Well	Sub-Car Bal Ta 98.5 Sub-Car Bal Whit	nopy Species Isam Fir g Alder 25 nopy Species Isam Fir	Medium High 51-80 Density Medium Medium Medium	Avg. Height Variable 5 - 10 feet N/A Avg. Height Variable	Size Variable 5 - 10 feet Size Variable	Pine Ridge TS cut 2000. White pine regen good near seed sources but
No	Canopy Species orthern White Cedar Tamarack Black Spruce 4133 - Aspe Canopy Species Quaking Aspen Red Maple	% Cover 80 7 13 en, Mixed Pi 70 10	Size Class Seedling Seedling ne Size Class Log	9 8 7 Sapling DBH 4 3	94 94 Well 1 Age 25	Sub-Car Bal Ta 98.5 Sub-Car Bal Whit	nopy Species Isam Fir g Alder 25 nopy Species Isam Fir te Spruce	Medium High 51-80 Density Medium Low	Avg. Height Variable 5 - 10 feet N/A Avg. Height Variable < 5 feet	Size Variable 5 - 10 feet Size Variable < 5 feet	Pine Ridge TS cut 2000. White pine regen good near seed sources but
No	Canopy Species orthern White Cedar Tamarack Black Spruce 4133 - Aspe Canopy Species Quaking Aspen Red Maple White Pine	% Cover 80 7 13 en, Mixed Pi 70 10	Size Class Seedling Seedling ne Size Class Log Log	9 8 7 Sapling DBH 4 3 18	94 94 Well 1 Age 25	Sub-Car Bal Ta 98.5 Sub-Car Bal Whit	nopy Species Isam Fir g Alder 25 nopy Species Isam Fir te Spruce Inut (Spp.) nite Pine	51-80 S Density Medium High 51-80 S Density Medium Low High	Avg. Height Variable 5 - 10 feet N/A Avg. Height Variable < 5 feet 5 - 10 feet	Size Variable 5 - 10 feet Size Variable < 5 feet 5 - 10 feet < 5 feet	Pine Ridge TS cut 2000. White pine regen good near seed sources but
31	Canopy Species orthern White Cedar Tamarack Black Spruce 4133 - Aspe Canopy Species Quaking Aspen Red Maple White Pine	% Cover 80 7 13 en, Mixed Pi 70 10 20	Size Class Seedling Seedling ne Size Class Log Log	Poletimb	94 94 94 94 94 95 95 95 95 95 95 95 95 95 95 95 95 95	Sub-Car Bal 98.5 Sub-Car Bal Whit Hazel	nopy Species Isam Fir g Alder 25 nopy Species Isam Fir te Spruce Inut (Spp.) nite Pine	Medium High 51-80 S Density Medium Low High Medium Unspecified	Avg. Height Variable 5 - 10 feet N/A Avg. Height Variable < 5 feet 5 - 10 feet < 5 feet	Size Variable 5 - 10 feet Size Variable < 5 feet 5 - 10 feet < 5 feet	Pine Ridge TS cut 2000. White pine regen good near seed sources but browsed hard. Bedrock ridges run east/west
31	Canopy Species orthern White Cedar Tamarack Black Spruce 4133 - Aspe Canopy Species Quaking Aspen Red Maple White Pine	% Cover 80 7 13 20 7 10 20 20 7 10 20 7 7 10 20 7 7 7 7 7 7 7 7 7	Size Class Seedling Seedling ne Size Class Log Log	Poletimb	y Well Age 25 115 er Well	Sub-Car 98.5 Sub-Car Bal Whit Hazel Wh 42.1 Sub-Car	nopy Species Isam Fir g Alder 25 nopy Species Isam Fir te Spruce Inut (Spp.) nite Pine	Medium High 51-80 S Density Medium Low High Medium Unspecified	Avg. Height Variable 5 - 10 feet N/A Avg. Height Variable < 5 feet 5 - 10 feet < 5 feet N/A	Size Variable 5 - 10 feet Size Variable < 5 feet 5 - 10 feet < 5 feet	Pine Ridge TS cut 2000. White pine regen good near seed sources but browsed hard. Bedrock ridges run east/west
31	Canopy Species orthern White Cedar Tamarack Black Spruce 4133 - Aspe Canopy Species Quaking Aspen Red Maple White Pine 4130 Canopy Species	% Cover 80 7 13 en, Mixed Pi 70 10 20 - Aspen % Cover % Cover % Cover	Size Class Seedling Seedling ne Size Class Log Log	DBH 9 8 7 Sapling DBH 4 3 18	y Well Age 25 115 er Well	Sub-Car Bal 98.5 Sub-Car Bal Whit Haze Wh 42.1 Sub-Car Bal	nopy Species Isam Fir g Alder 25 nopy Species Isam Fir te Spruce Inut (Spp.) hite Pine 50 nopy Species	51-80 S Density Medium High 51-80 S Density Medium Low High Medium Unspecified S Density	Avg. Height Variable 5 - 10 feet N/A Avg. Height Variable < 5 feet 5 - 10 feet < 5 feet N/A Avg. Height	Size Variable 5 - 10 feet Size Variable < 5 feet 5 - 10 feet < 5 feet Size	Pine Ridge TS cut 2000. White pine regen good near seed sources but browsed hard. Bedrock ridges run east/west
31	Canopy Species orthern White Cedar Tamarack Black Spruce 4133 - Aspe Canopy Species Quaking Aspen Red Maple White Pine 4130 Canopy Species White Pine	% Cover 80 7 13 en, Mixed Pi 70 10 20 - Aspen % Cover 1	Size Class Seedling Seedling ne Size Class Log Log	9 8 7 Sapling DBH 4 3 18 coletimb DBH 16	y Well Age 25 115 er Well Age	Sub-Car Bal 98.5 Sub-Car Bal Whit Hazel Wh 42.1 Sub-Car Bal Hazel	nopy Species Isam Fir g Alder 25 nopy Species Isam Fir the Spruce Inut (Spp.) hite Pine 50 nopy Species Isam Fir	51-80 S Density Medium High 51-80 S Density Medium Low High Medium Unspecified S Density Medium Medium	Avg. Height Variable 5 - 10 feet N/A Avg. Height Variable < 5 feet 5 - 10 feet < 5 feet N/A Avg. Height Variable	Size Variable 5 - 10 feet Size Variable < 5 feet 5 - 10 feet < 5 feet Size Variable	Pine Ridge TS cut 2000. White pine regen good near seed sources but browsed hard. Bedrock ridges run east/west



Stand	Level 4 C	over Type		Size Density	Acres	Stand Age	BA Range	Managed S	ite	General Comments
33	4130	- Aspen		Poletimber Well	33.2	29	Immature	N/A		Upper Skunk Ck Club TS cut 1996. Very wet access along trail from
	Canopy Species	% Cover	Size Class	DBH Age						east Moving into pole class, dbh range 3-6". Some white pine left in fa southwest
	Quaking Aspen	85	Sapling	5 29						Southwest
	Balsam Fir	10	Pole	4						
	White Spruce	5	Log	3						
34	4110 - Sugar N	Maple Assoc	ciation	Sawtimber Well	5.6	96	81-110	N/A	\	Too small to manage until aspen is cut. White pine seedlings are
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	prowsed nard
	Quaking Aspen	5		14	Ba	alsam Fir	Medium	5 - 10 feet	5 - 10 feet	
	White Pine	10		16	W	hite Pine	Medium	< 5 feet	< 5 feet	
	Sugar Maple	85		12 96	Wh	ite Spruce	Medium	5 - 10 feet	5 - 10 feet	
35	4136 - Asper	n, Mixed Co	nifer	Poletimber Well	62.8	50 l	Jnspecified	N/A	\	some rocky knobs have smaller dbh aspen and trace cherry. Far sou
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	tip has ~3acres of RP/WP on rock knob. Several ridges run parallel E/W.Fair amount of blowdown on west and north where conifer was
	White Spruce	10	Seedling	8	Haze	elnut (Spp.)	High	5 - 10 feet	5 - 10 feet	thickest (SBW mortality in conjunction with blowdown)
	Red Pine	5		14	Wh	ite Spruce	Low	Variable	Variable	
	White Pine	5		16	Ba	alsam Fir	Medium	Variable	Variable	
	Quaking Aspen	75		9 50						
	Balsam Fir	5	Seedling	8						
36	4130	- Aspen		Sapling Well	111.0	25	Immature	N/A		Upper Skunk Ck Rd TS cut 2000
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Pine	2		16	W	hite Pine	Medium	< 5 feet	< 5 feet	
	Quaking Aspen	88	Log	4 25	Wh	ite Spruce	Medium	Variable	Variable	
	Balsam Fir	5	Sapling	6	Haze	elnut (Spp.)	High	5 - 10 feet	5 - 10 feet	
	White Spruce	5	Sapling	7	Ва	alsam Fir	Low	Variable	Variable	
38	6120 - Lo	wland Ceda	r	Poletimber Well	210.4	100 l	Jnspecified	N/A		Wide range of cedar diameters.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Tamarack	10	Seedling	7	Ва	alsam Fir	Medium	Variable	Variable	
	Balsam Poplar	5		12	Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	10	Seedling	7						
No	rthern White Cedar	75		10 100						
39	6223 - Inundat	ted Shrub S	wamp	None	14.3			No		OPIC - FMD: OI Stand Year Origin was
აჟ	0220 - Illulluat	.ca Ciliub S	wamp	INUID	14.0			NO		OF IO - FINID. OF GLAND FEAT ORIGIN WAS

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Stand	and Level 4 Cover Type		Size Density		Acres	Stand Age	BA Range	Managed Site		General Comments
40	429 - Mixed Upland Conifers			Poletimber Well	90.5	33	Immature	N/A		Skunk Ck Rd TS cut 1992. The conifer makes up most of the east and
	Canopy Species	% Cover	Size Class	DBH Age						north half. White pine is very bushy. Trace bits of cedar
	Quaking Aspen	40	Sapling	6 33						
	Balsam Fir	15	Sapling	6						
	White Spruce	30	Sapling	7						
	White Pine	10	Seedling	8						
	Tamarack	5	Log	4						
41	1 4130 - Aspen		Sapling Medium	7.3	5	Immature	N/A		Stand is on a rock knob facing south. Skunk Creek Scraps TS cut 2020.	
	Canopy Species	% Cover	Size Class	DBH Age						Trees 5-10 feet tall
	Balsam Poplar	5	Log	1						
	Quaking Aspen	85	Log	1 5						
	Red Maple	10	Log	1						
42	42350 - Upland Hemlock		ck	Sawtimber Well	16.7	115	111-140	N/A		White pine heavy on east end but scattered throughout. Thick hemlock over west half. Very rocky. Half of stand unharvestable as it's on a cliff
	Canopy Species	% Cover	Size Class	DBH Age						face. Lots of deer use.
	White Pine	25		16						
	Hemlock	60		11 115						
No	orthern White Cedar	5	Seedling	9						
	Yellow Birch	5		11						
	Red Maple	5	Seedling	9						
43	4119 - Mixed Northern Hardwoods		Poletimber Well	176.6 101 1		111-140	N/A		BAs do not, for the most part, indicate urgent need to thin, however there does seem to be some use for sanitation (cracks, splits). Ironwood	
	Canopy Species		Size Class		Sub-Ca	nopy Species		Avg. Height	Size	saps heavier n north. Everything just above snow is browsed very hard.
	Hemlock	10		9	In	onwood	Medium	Variable	Variable	YB and Black ash are more in the wetter depressions, red maple more on north end. Bed and bank on east end.
	Sugar Maple	45		12 101						
	Red Maple	15	Seedling	9						
	Basswood	25		12						
	Yellow Birch	5		11						
44	6120 - Lowland Cedar		Poletimber Well	37.5 104			N/A		Hungry Deer TS cut 1996; aspen, balm of gilead, birch, maple, spruce, ¬ & fir were cut if over 4 sticks. Good overstory cover of cedar. Hemlock	
	Canopy Species	% Cover	Size Class	DBH Age		nopy Species	s Density	Avg. Height	Size	on north side of this stand
	Hemlock	20		14	Qual	king Aspen	Low	10 - 20 feet	10 - 20 feet	
No	orthern White Cedar	70		12 104						
	Black Ash	3	Seedling	8						
	Yellow Birch	7		10						



Stand	Level 4 Cover Type			Size De	nsity	Acres	Stand Age	BA Range	Managed Site		General Comments
45	4113 - R.Maple, Conifer		er	Poletimber Well		10.9	48	1-50	N/A		Most of stems are multi-stemmed. Conifer pocket in south central with
	Canopy Species	% Cover	Size Class	DBH	Age						trace of cedar is wetter.
	Balsam Fir	15	Sapling	6							
	Red Maple	55	Sapling	7	48						
No	rthern White Cedar	5		9							
	Sugar Maple	20	Pole	4	48						
	Quaking Aspen	5	Seedling	6							
46	4119 - Mixed Northern Hardwoods S			Sawtimber Well		61.8	102	111-140	N/A		Allinger TS cut 2008. Much of the hemlock is half dead or snags. Only
	Canopy Species	% Cover	Size Class	s DBH Age		Sub-Canopy Species		s Density	Avg. Height Size		fair quality hardwood stand. A few white pine.
	Basswood	15		12		Whi	te Spruce	Low	Variable	Variable	
	Hemlock	5		10		Ва	lsam Fir	Low	Variable	Variable	
	Sugar Maple	54		12	102	Iro	onwood	Low	5 - 10 feet	5 - 10 feet	
	Red Maple	20		10							_
	Yellow Birch	5		11							
No	orthern White Cedar	1		10							
47	4130 - Aspen		I	Poletimber Well		28.0	34	Immature	N/A		Skunk Ck Trail TS cut 1991. Far west finger is scattered cherry, balsar
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	Skunk Creek.
	Balsam Fir	5	Seedling	6		Whi	te Spruce	Low	Variable	Variable	
	White Spruce	5	Sapling	6		Ва	lsam Fir	Low	Variable	Variable	
	Quaking Aspen	90	Sapling	6	34						
48	6223 - Inundated Shrub Swamp N			Nor	ne	15.0			No		
49	4133 - Aspen, Mixed Pine		ne	Poletimber Well		25.8 32 lr		Immature	nmature N/A		Stand Year Origin was 1993. White pine regen heavy in west. RP/WP
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	super canopy dominant on west line.
	White Pine	15		11			Inut (Spp.)	Full	5 - 10 feet	5 - 10 feet	
	Red Pine	10		10			nite Pine	Medium	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	75	Seedling	6	32				l		
50	42200 - Natural White Pine S.		Sawtimber Well		11.5 90 8		81-110	31-110 N/A		Harvested 2012 with "Spring Hill Select" sale #12-080-10-01.	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	
	White Pine	60		16	90	Haze	Inut (Spp.)	High	5 - 10 feet	5 - 10 feet	
	Red Pine	40		14		Ва	lsam Fir	Medium	5 - 10 feet	5 - 10 feet	
						WI	nite Pine	Medium	Variable	Variable	
51	1 110 - Low Intensity Urban			Nor	ne	2.7			No		OPIC - FMD: SCHOOL FOREST GRAVEL PIT.