DNR DR

Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12071 Entry Year: 2027 Acreage: 1,933

County: Dickinson

Management Area: Cassidy Creek

Stand Examiner: Andrew Church

Legal Description:

T41N, R29W, Sections 1, 2, 11 and 12 T42N, R29W, Section 36

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Protect riparian areas during management activity implementing Best Management Practices guidelines.

Soil and topography:

Sandy soils are found with large rocks and high rocky bluffs. Some of the higher sites have fair, but often shallow, hardwood soils.

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

Private ownership is prevalent throughout this compartment. The topography is mixed with rock bluffs and lowland swamps. Hunting, fishing, trapping, and camping are the main recreational use patterns.

Unique Natural Features:

The West Branch of Sturgeon River, and Mitchell Creek are present.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

This area has an Ecological Reference Area.

Watershed and Fisheries Considerations:

Wet areas contribute to local creeks. This compartment contains headwater areas of Mitchell Creek and feeder streams that flow into the West Branch of the Sturgeon River and a portion of the WB Sturgeon River to the north. Both of these waterbody (including unnamed headwater and feeder streams) of designated Type 1 trout streams less than 50' in width. A 300' buffer is recommended for the areas susceptible to Aspen regeneration (specifically stands 3,48). For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope.

Wildlife Habitat Considerations:

Wood turtle occurrence to the south of the compartment. Loon to north and great blue heron rookery to the west. Potential for goshawk, moose, gray wolf, great blue heron rookery, and wood turtle. This is a natural area that is good habitat for deer, wolves, fisher, rabbits and general wildlife. Deer wintering area so functional cover is crucial. Contains game fund lands.

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 roughly three miles northeast. Bedrock is at or near the surface across the compartment, and there may be limited potential for development of sand & gravel. Abandoned iron mines occur within a couple miles of the compartment, and there is high potential for the occurrence iron-bearing formations beneath the southern portion of the compartment, as well as the potential for other metallic and/or critical minerals. State-owned mineral rights in and around the compartment have recently been leased for metallic mineral exploration and development; some mineral rights in the compartment were conveyed to Keweenaw Land Association in 2024 as part of a large exchange of mineral rights. There is moderate potential for new exploration activities within the compartment, and because the State does not own all the mineral rights within the compartment, and the mineral estate is the dominant estate, the department will need to provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Poor, rough roads blocked by private gates.

Survey Needs:

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Multiple corners needed.

Recreational Facilities and Opportunities:

Hunting, hiking, trapping, and fishing are some of the recreational opportunities.

Fire Protection:

Fire response will be from the Felch or Norway Field office.

Additional Compartment Information:

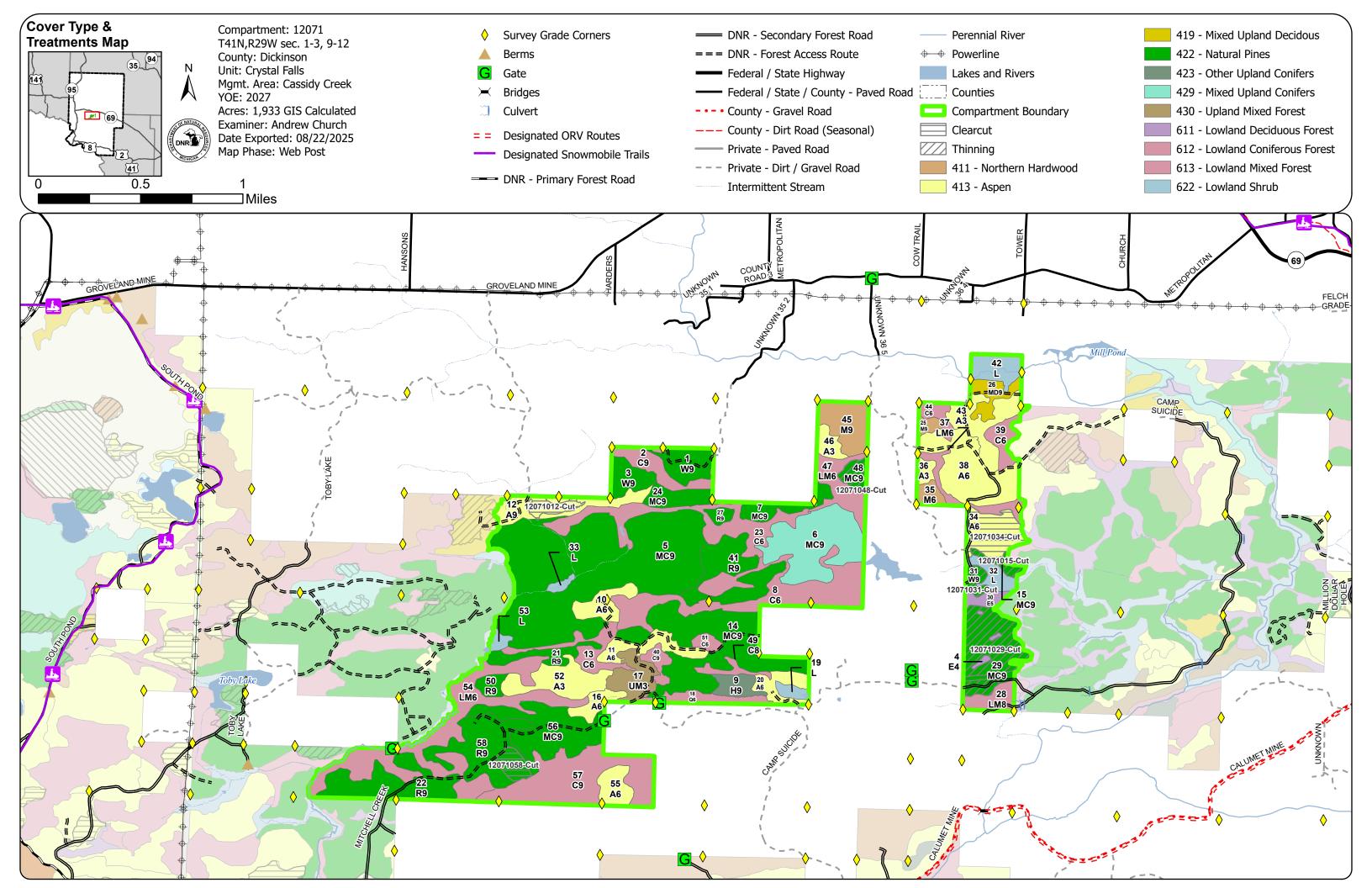
The following reports from the Inventory are attached:

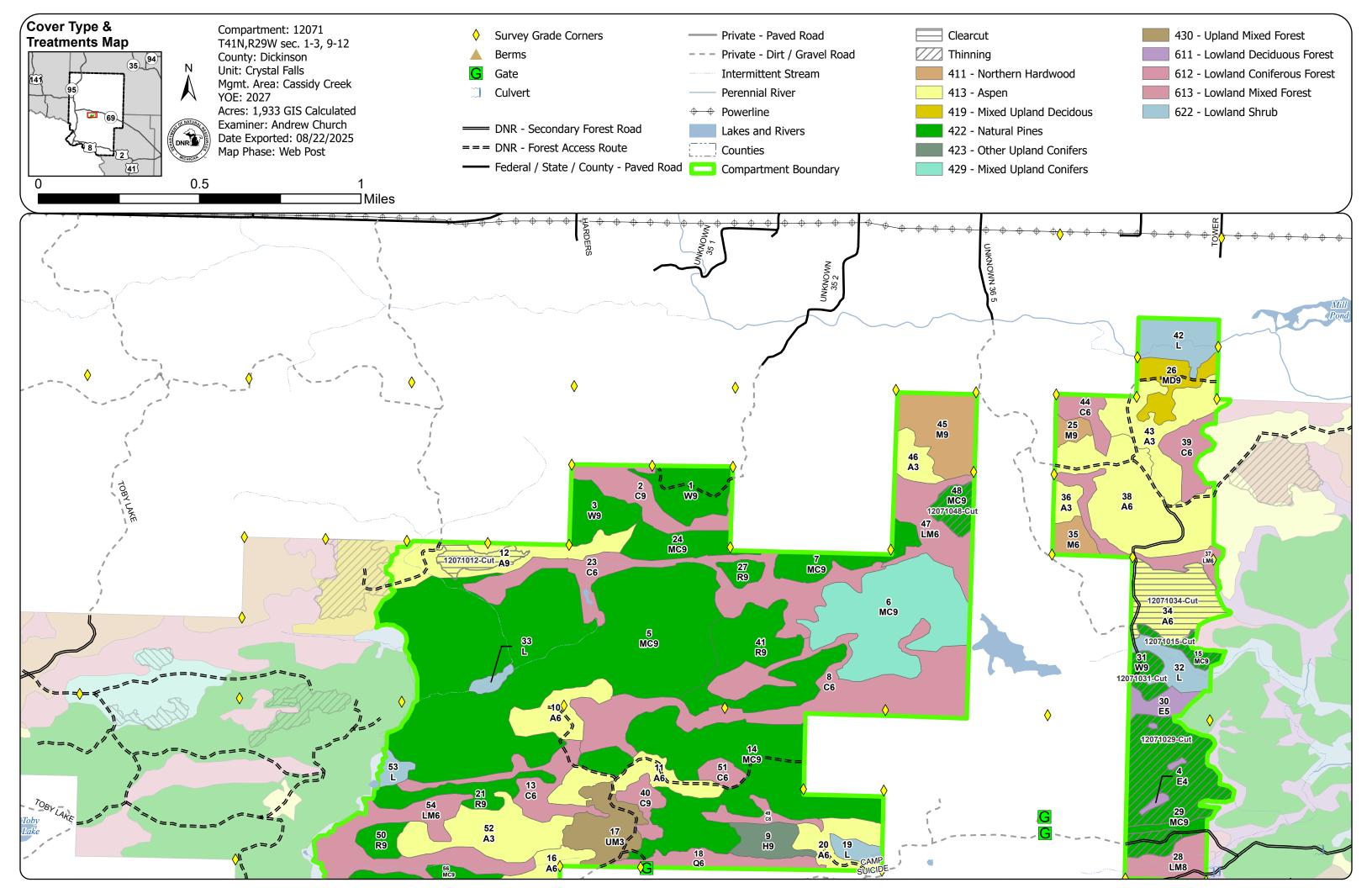
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

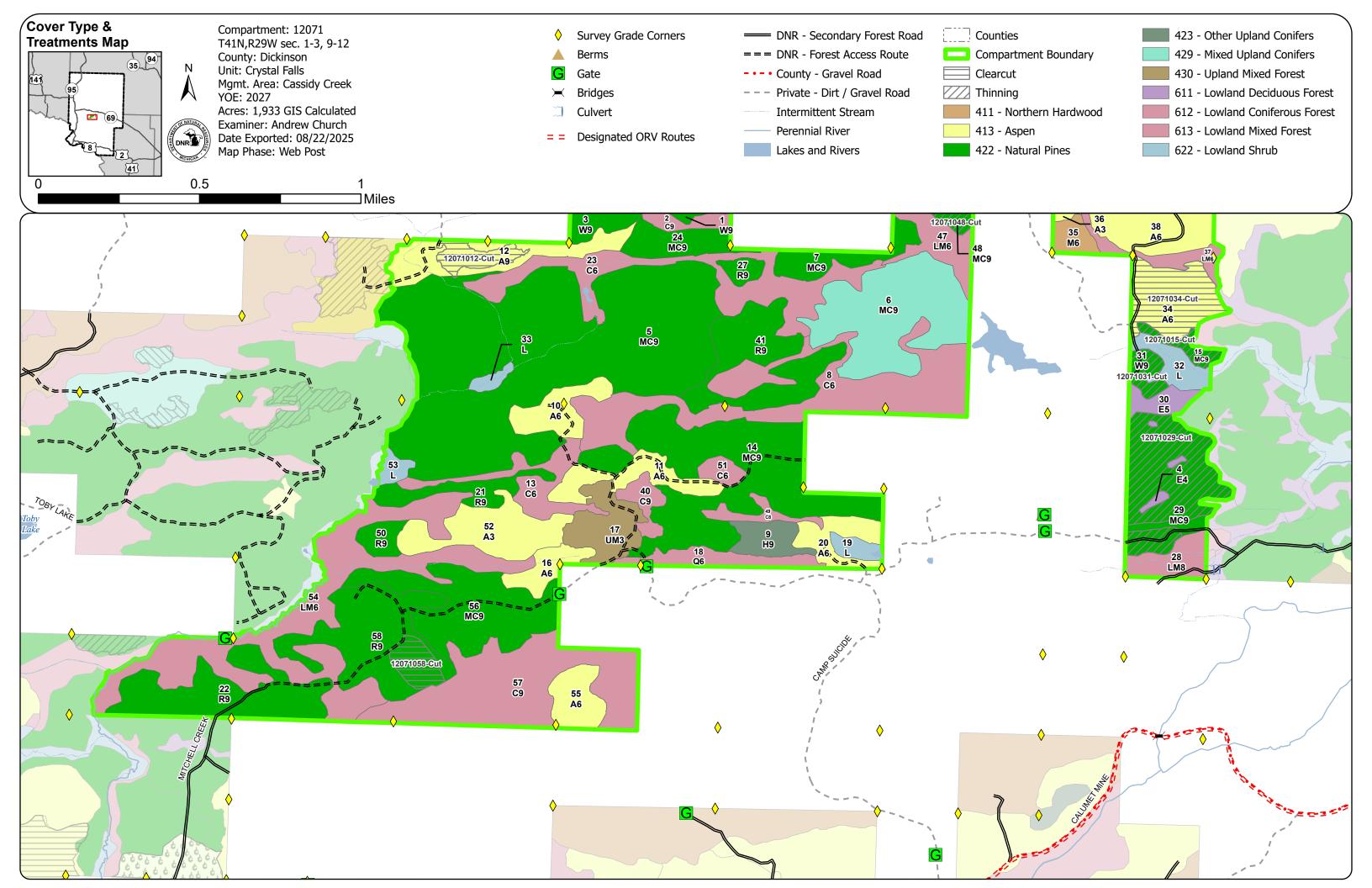
The following information is displayed, where pertinent, on the attached compartment maps:

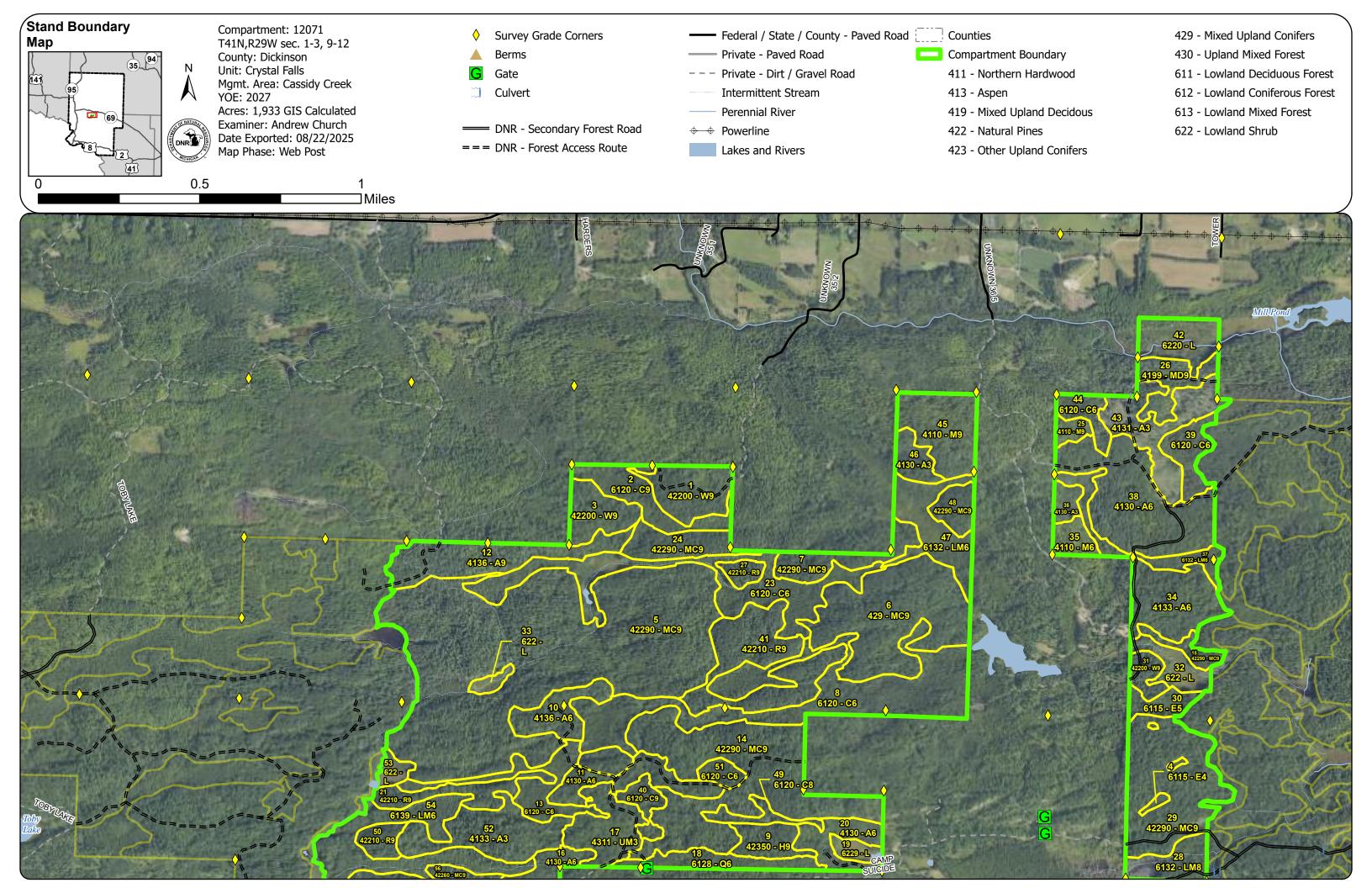
Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries

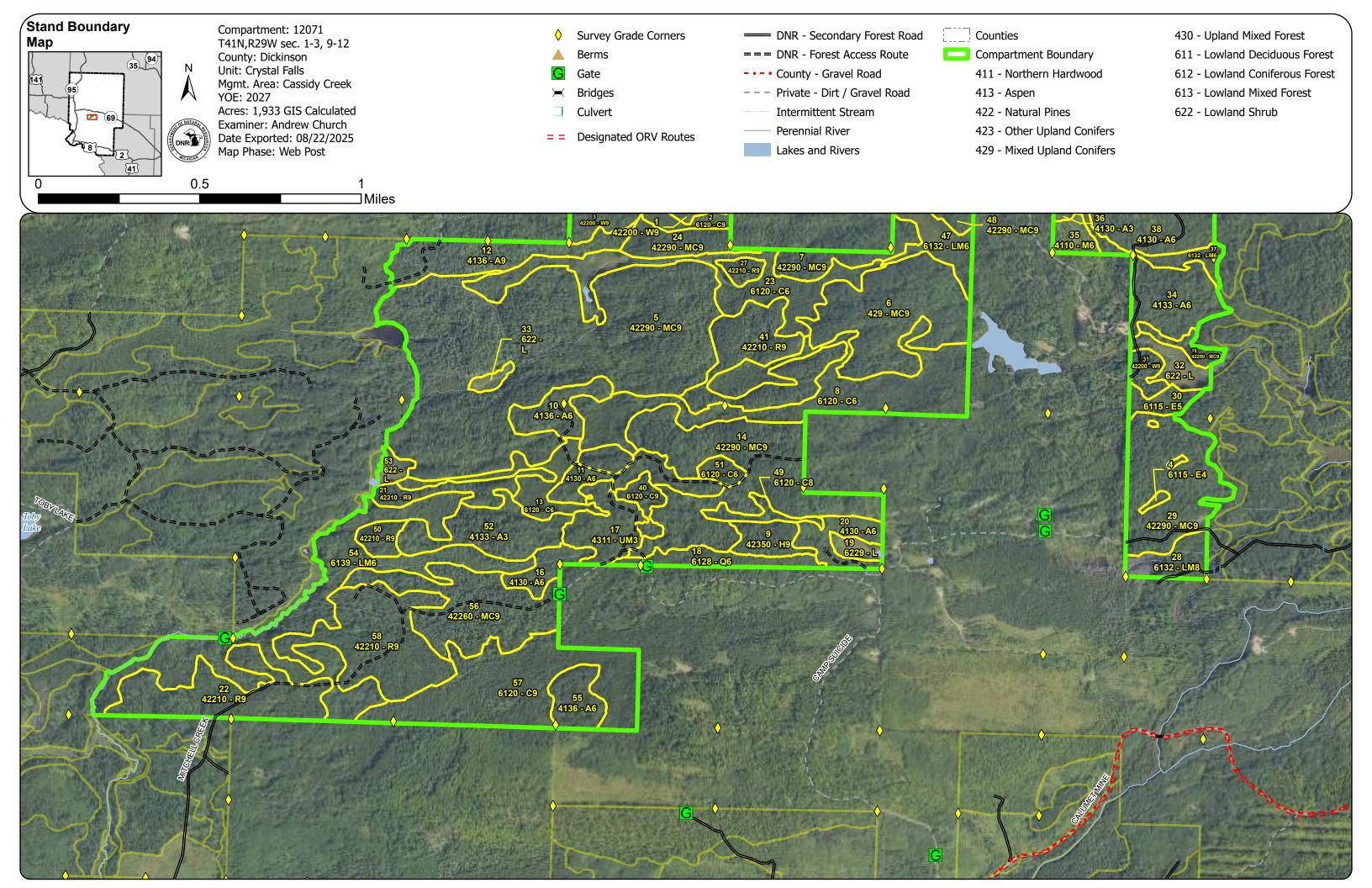
Details on the road access system

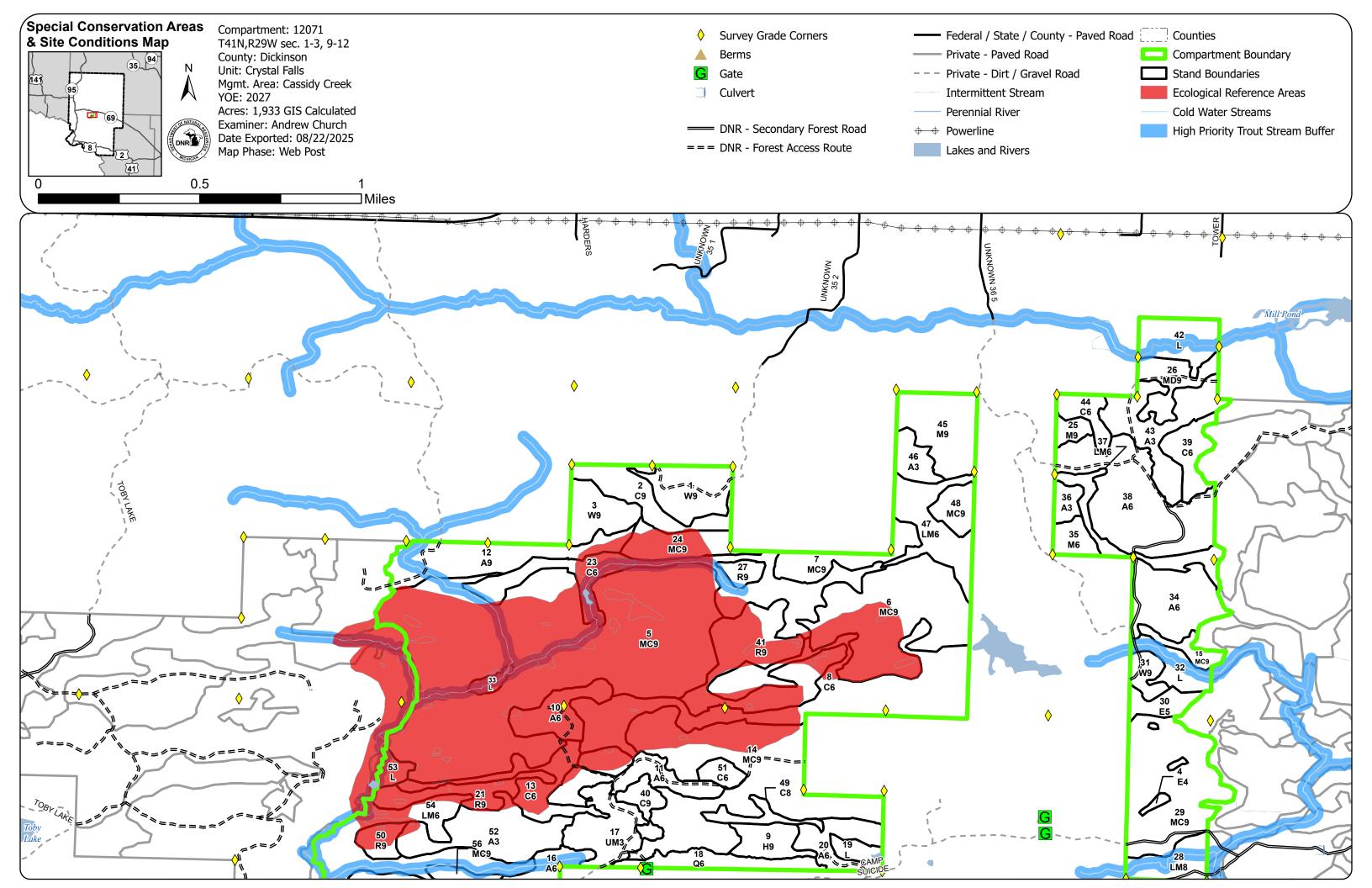


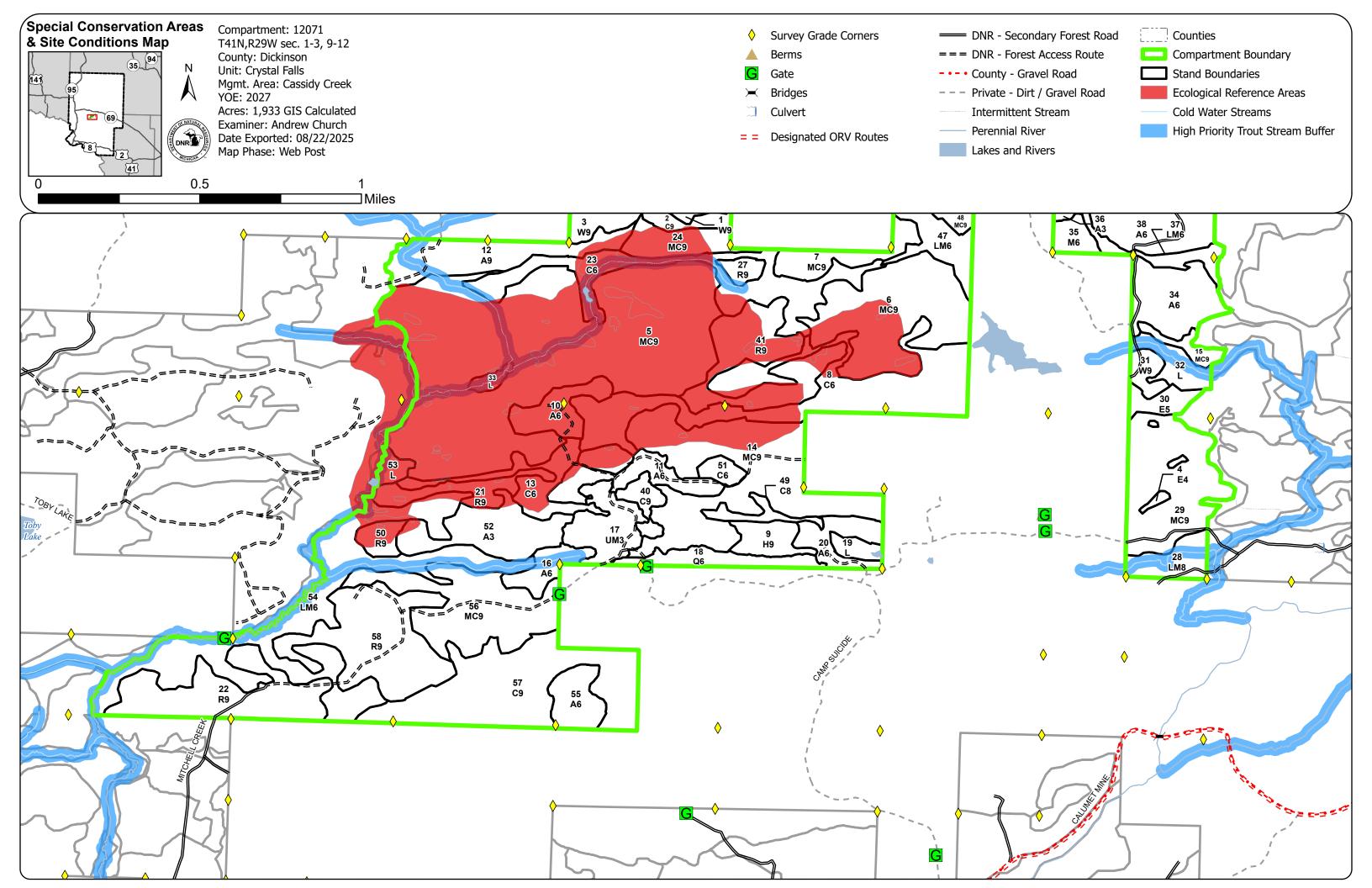












Compartment 71 Year of Entry 2027

Crystal Falls Mgt. Unit **Andrew Church: Examiner**



Age Class

	* Age	Kor C	§ / ½	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				8/8		R / 8			70,	& /&		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		S Juli	No. No.
Aspen	0	35	16	38	0	126	64	0	39	0	0	0	0	0	0	0	0	0	318
Cedar	0	0	0	0	0	0	0	0	0	0	0	91	38	113	97	0	0	0	339
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	14
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	17
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	0	0	11
Lowland Mixed Forest	0	0	0	0	0	0	118	0	0	0	0	28	0	17	0	16	0	0	179
Lowland Shrub	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	16
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	64	0	0	514	0	0	0	578
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	37	45
Red Pine	0	0	0	0	0	0	0	0	0	0	0	125	0	0	82	0	0	0	207
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	0	0	80
Upland Mixed Forest	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	0	0	0	51
Total	49	61	16	38	0	126	182	0	39	0	0	332	55	144	827	25	0	37	1930



Report 2 – Treatment Summary

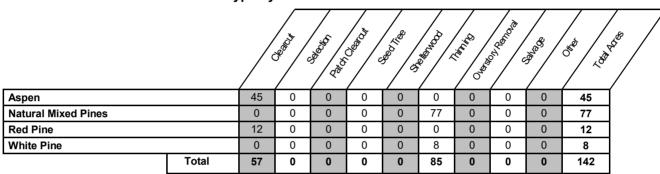
Crystal Falls Mgt. Unit Year of Entry: 2027

Acres of Harvest

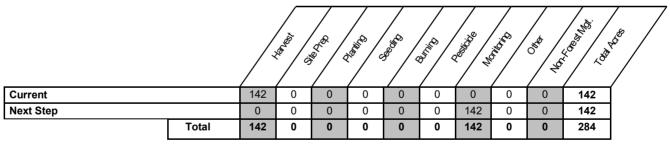
Compartment 71
Total Compartment Acres: 1,933

Commercial Harvest - 284 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: 12071 Year of Entry: 2027

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a											AMICHIGAN W
n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut

Proposed Treatments:

15	120/1015-Cut	7.1	42290 - Naturai	9	139	171-	Harvest	i ninning	429 - Mixed	Cutting	NO
			Mixed Pine			200			Upland Conifers	Record	

<u>Prescription</u> Utilize Variable Density Thinning method. Mark to target residual BA of 60-100. Release and expand existing advanced regeneration gaps of Specs: Pine. No gap shall be greater than 1 acre. Leave all Cedar, Hemlock, and Oak if found. Leave trees greater than

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Pine, Aspen, Mixed conifers, Mixed deciduous

Regen:

Other This treatment should establish a Pine sapling layer by installing holes in the canopy. Once saplings are established, the majority of the remaining overstory should be harvested to release the saplings.

Site Condition:

Proposed Start Date: 10/01/2026

 29
 12071029-Cut
 59.8
 42290 - Natural
 9
 139
 141 Harvest
 Thinning
 429 - Mixed
 Cutting
 No

 Mixed Pine
 170
 Upland Conifers
 Record

<u>Prescription</u> Utilize Variable Density Thinning method. Mark to target residual BA of 60-100. Release and expand existing advanced regeneration gaps of <u>Specs:</u> Pine. No gap shall be greater than 1 acre. Leave all Cedar, Hemlock, and Oak if found. Exclude non-operable area

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Pine, Aspen, Mixed conifers, Mixed deciduous

Regen:

Other This treatment should establish a Pine sapling layer by installing holes in the canopy. Once saplings are established, the majority of the remaining overstory should be harvested to release the saplings.

Site Condition:

Proposed Start Date: 10/01/2026

31 12071031-Cut 8.0 42200 - Natural 9 139 141- Harvest Thinning 429 - Mixed Cutting No White Pine 170 Upland Conifers Record

<u>Prescription</u>
Specs:
Utilize Variable Density Thinning method. Mark to target residual BA of 60-100. Release and expand existing advanced regeneration gaps of Pine. No gap shall be greater than 1 acre. Leave all Cedar, Hemlock, and Oak if found. Leave trees greater than

Next Step Monitoring, Natural Regen (Re-Inventory)

<u>Treatments:</u>

Acceptable Pine, Aspen, Mixed conifers, Mixed deciduous

Regen:

Other This treatment should establish a Pine sapling layer by installing holes in the canopy. Once saplings are established, the majority of the remaining overstory should be harvested to release the saplings.

Site Condition:

Proposed Start Date: 10/01/2026

34 12071034-Cut 34.3 4133 - Aspen, Mixed 6 51 Harvest Clearcut 413 - Aspen Planting No Pine Record

Prescription Final harvest using 4" spec. Leave all Cedar, Hemlock, Pine and Oak if found.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Pine, Mixed conifers, Mixed deciduous

Regen:

<u>Other</u>

Comment:
Site Condition:

Proposed Start Date: 10/01/2026

Compartment: 12071

Year of Entry: 2027

Record

Upland Conifers

S t a

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
48	12071048-Cut	10.4	42290 - Natural	9	139	141-	Harvest	Thinning	429 - Mixed	Cutting	No

<u>Prescription</u> Utilize Variable Density Thinning method. Mark to target residual BA of 60-100. Release and expand existing advanced regeneration gaps of <u>Specs:</u> Pine. No gap shall be greater than 1 acre. Leave all Cedar, Hemlock, and Oak if found. Leave trees greater than

170

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Pine, Aspen, Mixed conifers, Mixed deciduous

Regen:

Other This treatment should establish a Pine sapling layer by installing holes in the canopy. Once saplings are established, the majority of the remaining overstory should be harvested to release the saplings.

Site Condition:

Proposed Start Date: 10/01/2026

58 12071058-Cut 11.5 42210 - Natural Red 9 105 81-110 Harvest Clearcut 429 - Mixed Planting No Pine Upland Conifers Record

Prescription Final harvest using 2" spec due to insect and disease concerns.

Mixed Pine

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Plne, Aspen, Mixed deciduous, Mixed conifers

Regen:

Other 2 pocket of mortality were found. This is more of a sanitation harvest than a salvage harvest.

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

Approved Treatments:

12 12071012-Cut 10.7 4136 - Aspen, Mixed 9 73 81-110 Harvest Clearcut 4139 - Aspen, Planting No Conifer Mixed Deciduous Record

Prescription Cut all trees 2 inches and greater at DBH. Do not cut pine, oak, cedar and hemlock. Do not cut sub-merchantable spruce and fir. Buffer Stream

Specs: 300ft.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, birch and pine

Regen:
Other
Comment:

Site Condition:

Proposed Start Date: 02/03/2022

Total Treatment 141.8 Acreage Proposed:

Crystal Falls Mgt. Unit

Compartment: 71
Year of Entry: 2027



Andrew Church: Examiner

Total	Acres	Acres Avail	Acres		Domina	nt Site	e Con	dition	S	
Acres	Available	With Condition	Not Available		2F	2G	ЗА	3J	5A	5E
260	206	0	54	Aspen	13		25		12	4
339	0	0	339	Cedar		29	78		233	
14	0	0	14	Hemlock					14	
17	0	0	17	Lowland Conifers					17	
12	0	0	12	Lowland Deciduous		12				
179	0	0	179	Lowland Mixed Forest		45	8	126		
49	40	0	9	Lowland Shrub			9			
2	0	0	2	Mixed Upland Deciduous						2
438	82	0	357	Natural Mixed Pines	29		312		16	
45	45	0	0	Northern Hardwood						
204	125	0	79	Red Pine	17		62			
80	0	0	80	Upland Conifers	49		31			
26	26	0	0	Upland Mixed Forest						
51	51	0	0	White Pine						
1,716	575		1,140	Total Forested Acres	109	86	523	126	291	6
	34%		66%	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.

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3A: Conservation values incompatible with harvest at this time	525	Unspecified	Unspecified	Unspecified	Unspecified
_	omments: art of Groveland M	lines ERA Complex. Large hi	gh quali	ty dry-mesic northern fore	st occurring on rugged top	ography and shallow soils	over bedrock.
_		lines ERA Complex. Large hi 5E: Long-Term Retention	gh quali	ty dry-mesic northern fore	st occurring on rugged top Unspecified	ography and shallow soils Unspecified	over bedrock. Unspecified
P:	art of Groveland M	· ·	gh quali				
2 2	art of Groveland M	· ·	gh quali				

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3	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	110	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments: Mitchell Creek and	various intermittent streams w	ithin sit	e condition. In addition, ma	any wet areas outside of s	tream buffers.	
4	Unavailable	5A: Not able to obtain desirable regeneration	91	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Cedar regen difficul	lties.					
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	58	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Very wet and stream	n toward South end of stand.					
6	Unavailable	2F: Too steep	104	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Steep terrain with n	o access.					
7	Unavailable	5A: Not able to obtain desirable regeneration	48	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Cedar regen difficul	Ities.					
8	Unavailable	5A: Not able to obtain desirable regeneration	39	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Cedar regen difficul	Ities.					

Crystal Falls Mgt. Unit

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9	Unavailable	5A: Not able to obtain desirable regeneration	22	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
(Cedar regen difficu	ılties.					
10	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
	Rough Terrain						
11	Unavailable	5A: Not able to obtain	14	Unspecified	Unspecified	Unspecified	Unspecified
		desirable regeneration					
(Comments:						
ŀ	Hemlock regenerat	ion issues.					
4.0							
12	Unavailable	5A: Not able to obtain desirable regeneration	17	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:	te					
(Cedar regen difficu	lities.					
13	Unavailable	5A: Not able to obtain	9	Unspecified	Unspecified	Unspecified	Unspecified
		desirable regeneration		5p = 5 a	p =		
(Comments:						
	Cedar regen difficu	ılties.					
	- J						
14	Unavailable	5A: Not able to obtain	9	Unspecified	Unspecified	Unspecified	Unspecified
		desirable regeneration					
(Comments:						
(Cedar regen difficu	ılties.					
. =							
15	Unavailable	5A: Not able to obtain	7	Unspecified	Unspecified	Unspecified	Unspecified
		desirable regeneration					
	Comments:						
(Cedar regen difficu	Ilties.					

Crystal Falls Mgt. Unit
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16	Unavailable	5A: Not able to obtain desirable regeneration	6	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
	edar regen difficul	ties					
	edai regen dillicui	ues.					
17	Unavailable	5A: Not able to obtain desirable regeneration	5	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
	edar regen difficul	ties					
	oddi Togoti dilliodi						
18	Unavailable	5A: Not able to obtain desirable regeneration	10	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
	edar regeneration	concerns					
	eddi regeneralion	concerns.					
19	Unavailable	5A: Not able to obtain desirable regeneration	15	Unspecified	Unspecified	Unspecified	Unspecified
C	omments:						
	edar regeneration	concerns					
	edai regeneration	concerns.					
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						

Crystal Falls Mgt. Unit
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22	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Treatment says do	not cut pine. This is a pine poc	ket tha	nt was red lined out.			
23	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	16	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments: Very wet stand with	n a stream.					
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
25	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Rock bluff						
27	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
43	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Steep hill that drop	s off to the West Branch of the	Sturge	eon River.			
44	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retention for 99 ye	ar old MD9 (2019)					

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	Level 4 Co	over Type	1	Size Density	Acres	Stand Age B	BA Range Managed Site		ite	General Comments
1	42200 - Natu	ıral White	Pine	Sawtimber Well	24.4	139	51-80	N/A	A	Cedar is primarily on the southern edge of the stand and dissipates as the grade climbs to the north. Aspen and Red Maple sapling found in
	Canopy Species	% Cove	r Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	gaps. Wet areas throughout the stand. Harvested 2024 with Jungle
	White Pine	70		18 139	WI	nite Pine	Low	Variable	Variable	Crumble sale.
	Red Pine	20		18	Whi	te Spruce	Low	Variable	Variable	
Nor	thern White Cedar	10	Seedling	8	Re	d Maple	High	>20 feet	>20 feet	
					Quak	king Aspen	High	Variable	Variable	
2	6120 - Lov	vland Ced	ar	Sawtimber Well	22.9	123	171-200	N/A	٨	Trace amounts of paper birch and black spruce.
	Canopy Species	% Cove	r Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
Nor	thern White Cedar	85		11 123	Bla	ack Ash	Low	Variable	Variable	
	White Pine	5		16	Ta	ng Alder	Medium	5 - 10 feet	5 - 10 feet	
	Red Pine	10		16						-
3	42200 - Natu	ıral White	Pine	Sawtimber Well	18.7	139	51-80	N/A	١	Aspen and Red Maple saplings found in gaps. Wet areas throughout the \upbeta stand. Harvested 2024 with Jungle Crumble sale.
	Canopy Species	% Cove	r Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Stariu. Harvested 2024 with Jurigie Chumble sale.
	Red Pine	20		18	WI	nite Pine	Low	Variable	Variable	
	White Pine	70		18 139	Whi	te Spruce	Low	Variable	Variable	
Nor	thern White Cedar	10	Seedling	8	Quak	king Aspen	High	Variable	Variable	
					Re	d Maple	High	>20 feet	>20 feet	
4	6115 - Lo	wland As	h	Poletimber Poor	2.5	139	1-50	N/A	٨	Small pockets of Black Ash in the rock outcroppings. Majority of Ash is
	Canopy Species	% Cove	r Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	dead.
	Black Ash	100		8 139	WI	nite Pine	Medium	< 5 feet	< 5 feet	
					Ta	ng Alder	Low	Variable	Variable	
					Re	d Maple	Medium	Variable	Variable	
5	42290 - Natu	ıral Mixed	Pine	Sawtimber Well	282.8	139	141-170	N/A	١	Trace amounts of cedar, aspen, hemlock, and paper birch. Mix of
	Canopy Species	% Cove	r Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	upland ridges with small lowland drainages. Cedar and black ash found in the canopy of the low areas, primarily towards the west portion of the
Nor	thern White Cedar	5		8	Re	d Maple	Low	Variable	Variable	stand.
	Red Pine	50		16 139	Bla	ack Ash	Low	Variable	Variable	
	White Pine	25		16	Ta	ng Alder	Low	5 - 10 feet	5 - 10 feet	
	Black Ash	10	Seedling	5	R	ed Pine	Low	< 5 feet	< 5 feet	
	Red Maple	5		9	Ва	lsam Fir	Low	Variable	Variable	
	Red Oak	5		15	Whi	te Spruce	Medium	Variable	Variable	
					WI	nite Pine	Medium	< 5 feet	< 5 feet	
						iile i iile				
						erry (spp.)	Low	Variable	Variable	

Report 7 - Stands



Stand	Level 4 Co	Cover Type		Size Density	Acres	Stand Age E	BA Range	Managed S	ite	General Comments	
6	429 - Mixed U	Jpland Con	ifers	Sawtimb	er Well	80.4	139	171-200	N/A	٨	The terrain is rocky and rugged. Black ash found in various sinks and
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	small drainages.
	Red Pine	20		14		Ire	onwood	Low	Variable	Variable	
	White Ash	10		14		W	hite Pine	Low	< 5 feet	< 5 feet	
Nort	hern White Cedar	5	Seedling	8		W	hite Ash	Low	Variable	Variable	
	Paper Birch	5		12		Sug	gar Maple	Low	Variable	Variable	
	Sugar Maple	5		12		Whi	te Spruce	Low	Variable	Variable	
,	White Spruce	5		12				'			_
	Red Maple	10		10							
	Hemlock	5		10							
	Red Oak	5		14							
	White Pine	30		18	139						
7	42290 - Natu	ıral Mixed F	Pine	Sawtimb	er Well	18.7	139	171-200	N/A	١	More Pine to the West. Large portion of the stand has thick cedar pole
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	under a pine canopy.
	Balsam Fir	2	Seedling	7		W	hite Ash	Low	Variable	Variable	
	Red Maple	2		10		Ва	ılsam Fir	Low	Variable	Variable	
Е	Bigtooth Aspen	2		14		Northern	n White Cedar	High	>20 feet	>20 feet	
Nort	hern White Cedar	2		9		Pa	per Birch	Low	Variable	Variable	
	White Pine	34		18		W	hite Pine	Low	Variable	Variable	
	Paper Birch	2		12				'		1	_
	Red Pine	56		18	139						
8	6120 - Lov	wland Ceda	ar	Poletimb	er Well	97.0	136	81-110	N/A	١	Trace amounts of red maple, white pine, red pine, hemlock, paper bird
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	and aspen. East side of stand contains a small upland inclusion composed mostly of ash, aspen, balsam, cedar and pine.
Nort	hern White Cedar	55		11	136	Ba	ılsam Fir	Low	Variable	Variable	tomposed mostly of asir, aspen, balsam, cedar and pine.
	Black Spruce	35	Seedling	5		W	hite Pine	Trace	Variable	Variable	
	Black Ash	10	Seedling	6		Blad	ck Spruce	Low	Variable	Variable	
						BI	ack Ash	Medium	Variable	Variable	
						Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
9	42350 - Upl	land Hemlo	ock	Sawtimb	er Well	13.5	123	201+	N/A	٨	
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Hemlock	65		12	123	Ва	ılsam Fir	Trace	Variable	Variable	
	White Pine	15		20				'		1	-
	Red Pine	5		20							
Nort	hern White Cedar	10		12							
	Red Maple	5		10							

Crystal Falls Mgt. Unit



Stand	Level 4 C	over Type		Size Density	Acres Stand Age B	Managed S	ite	General Comments	
10	4136 - Asper	pen, Mixed Conifer		Poletimber Well	19.2 46		N/A	1	Mix of upland and lowland.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Quaking Aspen	60	Seedling	8 46	Red Pine	Low	Variable	Variable	
	Balsam Fir	15	Seedling	6	Tag Alder	Trace	5 - 10 feet	5 - 10 feet	
	Balsam Poplar	10	Seedling	9	White Pine	Medium	Variable	Variable	
	Black Ash	5	Sapling	6	Hazelnut (Spp.)	Low	5 - 10 feet	5 - 10 feet	
	Red Pine	5		14	White Spruce	Low	Variable	Variable	
	White Pine	5		16	White Spruce	Medium	Variable	Variable	
					Balsam Fir	Medium	Variable	Variable	
					White Ash	Trace	Variable	Variable	
					Ironwood	Low	Variable	Variable	
11	4130	- Aspen		Poletimber Well	21.9 46		N/A	1	Various wet spots with Ash and BAM. Tag alder is concentrated to
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	where the stream runs through the stand. Trace amounts of cedar.
	Black Ash	5	Seedling	6	White Spruce	Medium	Variable	Variable	
	Quaking Aspen	55	Seedling	8 46	Balsam Poplar	Low	Variable	Variable	
	White Spruce	5	Seedling	6	Tag Alder	Low	5 - 10 feet	5 - 10 feet	
	Bigtooth Aspen	20	Seedling	9	Balsam Fir	Low	Variable	Variable	
	Balsam Fir	5	Seedling	6	Black Ash	Medium	Variable	Variable	
	White Pine	5		20	Red Pine	Low	Variable	Variable	
	Balsam Poplar	5		9	White Pine	Low	Variable	Variable	
12	4136 - Asper	n, Mixed Co	nifer	Sawtimber Well	38.9 73	81-110	N/A	\	Larger spruce has fallen out of stand. Small rock nob with
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	cedar/hemlock present.
	Paper Birch	5		8	Balsam Fir	Medium	Variable	Variable	
	Red Maple	5		10	White Pine	Medium	Variable	Variable	
	Hemlock	2		11	Ironwood	Low	Variable	Variable	
	White Pine	18		15					_
	Quaking Aspen	37		13 73					
No	rthern White Cedar	2		11					
	Sugar Maple	1		10					
	Bigtooth Aspen	30		13					
13	6120 - Lo	wland Ceda	r	Poletimber Well	23.3 118	111-140	N/A	\	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Black Ash	5	Seedling	7	Balsam Fir	Low	Variable	Variable	
	Black Spruce	15	Seedling	7	Black Spruce	Low	Variable	Variable	
No	rthern White Cedar	80		10 118	White Pine	Full	< 5 feet	< 5 feet	
No	rthern White Cedar	80		10 118	White Pine Tag Alder	Full	< 5 feet 5 - 10 feet	< 5 feet 5 - 10 feet	



Stand	Level 4 Co	Level 4 Cover Type				Acres Stand Age BA Range			Managed S	Site	General Comments
14	42290 - Natu			Sawtimbe		112.2		111-140	N//		Trace amounts of hemlock, white spruce, and sugar maple. More Red Maple and Cedar to the South. Spruce and Fir removed in portions of
(Canopy Species		Size Class		Age		nopy Species	Density	Avg. Height	Size	stand due to Spruce Budworm outbreak in 2016.
	White Pine	30		19	100		alsam Fir	Low	Variable	Variable	
	Red Pine	45		14	139		tch Hazel	Medium	5 - 10 feet	5 - 10 feet	
	Black Ash	5	Sapling	6			led Oak	Trace	< 5 feet	< 5 feet	
	Red Maple	5		11			hite Ash	Trace	>20 feet	>20 feet	
C	Quaking Aspen	10		11			n White Cedar	Low	>20 feet	>20 feet	
	Red Oak	5		14			ag Alder	Trace	5 - 10 feet	5 - 10 feet	
						Wh	ite Spruce	Low	Variable	Variable	
						Re	ed Maple	Low	Variable	Variable	
						Suç	gar Maple	Medium	Variable	Variable	
						W	hite Pine	Trace	Variable	Variable	
						Ir	onwood	Low	Variable	Variable	
						R	led Oak	Low	Variable	Variable	
15	42290 - Natu	ıral Mixed F	Pine	Sawtimbe	er Well	7.1	139	171-200	N/A	4	
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
Nort	hern White Cedar	10	Seedling	8		Hazelı	nut (Beaked)	Low	5 - 10 feet	5 - 10 feet	
	Red Maple	5		8		Ва	alsam Fir	Low	Variable	Variable	
	Red Pine	40		20	139	Wh	ite Spruce	Low	>20 feet	>20 feet	
	White Pine	30		20		Re	ed Maple	Medium	>20 feet	>20 feet	
G	Quaking Aspen	15		12		W	hite Pine	Low	< 5 feet	< 5 feet	
16	4130	- Aspen		Poletimbe	er Well	12.8	50		N/A	4	East side of stand has a concentration of small pines and tag alder.
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Trace amounts of bigtooth, cedar, black spruce, and white spruce.
	Paper Birch	5	Pole	4		W	hite Ash	Low	Variable	Variable	
C	Quaking Aspen	60	Seedling	8	50	Wh	ite Spruce	Low	Variable	Variable	
Е	Balsam Poplar	30	Seedling	7		Haze	elnut (Spp.)	Medium	5 - 10 feet	5 - 10 feet	
	Balsam Fir	5	Seedling	9		Wild R	ed Raspberry	Low	< 5 feet	< 5 feet	
						Re	ed Maple	Low	Variable	Variable	
						R	ed Pine	Medium	Variable	Variable	
						W	hite Pine	Low	Variable	Variable	
						Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet	
17	4311 - Pine	e, Aspen M	ix	Sapling	Well	26.2	1	51-80	N/A	4	Stand harvested 2024 with Jungle Crumble sale. Many areas of heavily
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stocked Red Pine and White Pine.
	White Pine	25		20		Haze	elnut (Spp.)	Low	5 - 10 feet	5 - 10 feet	
	Red Pine	25		18	139			1	1	1	1
C	Quaking Aspen	35	Log	1	1						
	Black Ash	5	Log	1							
	Red Maple	10	Log	1							

Crystal Falls Mgt. Unit



Stand	Level 4 C	over Type		Size Density	Acres	Stand Age B	A Range	Managed S	Site	General Comments
18	6128 - Lowland Dec	Coniferous,	Mixed	Poletimber Well	16.8	118	141-170	N/A	Ą	More Black ash to the East. Less stocking to East. Trace amounts of red maple, white birch and balsam poplar.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Black Ash	40	Seedling	6	Bal	lsam Fir	Low	Variable	Variable	
	Balsam Fir	5	Seedling	6	Bla	ack Ash	High	Variable	Variable	
	Black Spruce	10		13	Blac	k Spruce	Medium	Variable	Variable	
No	orthern White Cedar	45		11 118						-
19	6229 - Mixed	Lowland S	hrub	None	5.9			No)	OPIC - FMD: OI Stand Year Origin was
					Sub-Car	nopy Species	Density	Avg. Height	Size	
					Bal	lsam Fir	High	>20 feet	>20 feet	
					Whit	e Spruce	Medium	>20 feet	>20 feet	
20	4130	- Aspen		Poletimber Well	17.5	50		N/A	4	Trace amounts of paper birch, cedar, balsam, and pine.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Black Ash	5	Seedling	8	Balsa	am Poplar	Low	Variable	Variable	
	Quaking Aspen	65		8 50	Bal	lsam Fir	Medium	Variable	Variable	
	Red Maple	10		10	Re	ed Pine	Low	Variable	Variable	
	Balsam Poplar	15	Sapling	6	Wh	ite Pine	Low	Variable	Variable	
	White Spruce	5		10	Whit	e Spruce	Medium	Variable	Variable	
21	42210 - Na	tural Red P	ine	Sawtimber Well	17.2	139	141-170	N/A	4	Large Pine trees situated on rock outcropping.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	White Pine	20		18		d Maple	Low	Variable	Variable	
	Red Pine	70		16 139	Bal	lsam Fir	Medium	Variable	Variable	
	Red Maple	5		8	Whit	e Spruce	Low	Variable	Variable	
	Paper Birch	5		8	Haze	Inut (Spp.)	High	5 - 10 feet	5 - 10 feet	
22	42210 - Na	tural Red P	ine	Sawtimber Well	56.1	105	81-110	N/A	4	More White Pine to the South.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Paper Birch	10		9		ite Pine	Low	Variable	Variable	
	Red Pine	75		18 105	Re	d Maple	Low	5 - 10 feet	5 - 10 feet	
	White Pine	15		20		Inut (Spp.)	Full	5 - 10 feet	5 - 10 feet	
					Bal	Isam Fir	Low	5 - 10 feet	5 - 10 feet	
23	6120 - Lo	wland Ceda	nr	Poletimber Well	58.5	124		N/A	4	Wet areas with Cedar and Black Ash pockets. Also areas of only Tag dlder.
	Canopy Species		Size Class			nopy Species	Density	Avg. Height	Size	, 100.
No	orthern White Cedar	70		9 124	Та	g Alder	High	5 - 10 feet	5 - 10 feet	
	Black Ash	15	Sapling	6						
	Balsam Fir	5	Sapling	6						
	Paper Birch	10	Sapling	6						

Report 7 - Stands

Compartment: 71 Year of Entry: 2027



Stanc	and Level 4 Cover Ty		r Type S	er Type Size Densit			Size Density Acres Stand Age BA Range				ite	General Comments
24	42290 - Natu	ıral Mixed F	Pine	Sawtimb	er Well	18.7	139	141-170	N/A	\	Trace amount of oak and birch. Very rocky with cedar in portions of the ¬ understory. Good portion of stand in ERA.	
	Canopy Species	nopy Species % Cover Size Class DBH Age Sub-Canopy Species Density		Avg. Height	Size	understory. Good portion of stand in ERA.						
No	orthern White Cedar	5		10		W	hite Pine	Low	< 5 feet	< 5 feet		
	Red Maple	5		12		Whi	te Spruce	Low	>20 feet	>20 feet		
	Black Ash	5	Sapling	6		Re	ed Maple	Low	>20 feet	>20 feet		
	Quaking Aspen	5		11		R	ed Pine	Low	>20 feet	>20 feet		
	Red Pine	50		18	139						-	
	White Pine	30		20								
25	4110 - Sugar M	laple Assoc	ciation	Sawtimb	er Well	5.0	113	81-110	N/A	\	Harvested with Matamoosy sale #12-009-10-01 in 2012. Trace	
	Canopy Species	% Cover	Size Class	DBF	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	amounts of white ash and cedar.Poor quality hardwood and oak on rocky soil.	
	White Pine	5		20		Ва	ılsam Fir	Low	Variable	Variable	, restly estin	
	Basswood	33		14		Lea	therwood	Low	5 - 10 feet	5 - 10 feet		
	Sugar Maple	50		11	113	Ire	onwood	Low	Variable	Variable		
	Paper Birch	2	Seedling	9		Whi	te Spruce	Low	Variable	Variable		
	Red Oak	10		20				'		1	-	
26	4199 - Other Mixe	d Upland D	eciduous	Sawtimb	er Well	16.3	105	51-80	N/A	\	Southern lobe is mostly rock. Thinned 2024 with Jungle Crumble sale	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
	Red Maple	15		8		Ire	onwood	Medium	Variable	Variable		
	Bigtooth Aspen	5		12		Whi	te Spruce	Low	Variable	Variable		
	Red Oak	45		13	105			,			_	
	Basswood	20		11								
	Sugar Maple	15		9								
27	42210 - Nat	ural Red Pi	ne	Sawtimb	er Well	5.5	139	141-170	N/A	\	Very rocky. Cedar in portion of understory mostly around the perimeter	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	of the stand.	
	Red Pine	60		18	139	Northern	n White Cedar	Medium	>20 feet	>20 feet		
	White Pine	40		20		W	hite Pine	Low	< 5 feet	< 5 feet		
						Re	ed Maple	Medium	>20 feet	>20 feet		
28	6132 - Mixed Lowla	ınd Forest v	vith Cedar S	Sawtimbe	r Medium	n 16.0	147	111-140	N/A	1	Trace amounts of black spruce and cherry. Intermittent stream runs	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	through center of stand. Small upland inclusion to Southeast side of stand where Ash, Basswood, and Sugar Maple can be found.	
										V / ! - I- I -	, , , , , , , , , , , , , , , , , , , ,	
	Basswood	5		18		Whi	te Spruce	Medium	Variable	Variable		
		5 45	Seedling	18			te Spruce ck Spruce	Medium	Variable Variable	Variable		

Report 7 – Stands



Stand	Level 4 Co	over Type		Size Density		Acres	Stand Age B	A Range	Managed S	Site	General Comments
29	42290 - Natu	ıral Mixed P	ine s	Sawtimb	er Well	64.5	139	141-170	N/A	Ą	Areas of stand are very steep. The portion of the stand south of cliffs was harvested roughly 30 years ago and has lower stocking than the
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	remainder of stand.
	Red Oak	3		10		Re	d Maple	Medium	Variable	Variable	
	Paper Birch	2		9		Whi	te Spruce	Low	Variable	Variable	
	White Pine	55		18	139	Wh	nite Pine	Medium	< 5 feet	< 5 feet	
	White Spruce	2		9							
	Quaking Aspen	5		12							
	Red Maple	10		9							
	Red Pine	20		14							
No	orthern White Cedar	3	Seedling	8							
30	6115 - Lo	owland Ash	Po	oletimber	Medium	9.2	146	51-80	N/A	Ą	Trace amounts of paper birch variable black ash size from poles to
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	saplings. Very Wet. Thick Cedar pocket on the north side of stand and some cedar around the perimeter.
	Black Ash	90	Sapling	6	146	Blac	k Spruce	Medium	Variable	Variable	some social around the perimeter.
No	orthern White Cedar	10	Seedling	9		WI	nite Pine	Low	Variable	Variable	
31	42200 - Natu	ıral White P	ine S	Sawtimb		8.0	139	141-170	N/A	Ą	Large diameter White Pine stand situated on rock outcropping. Advanced Pine regeneration observed in canopy gaps.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Advanced Fine regeneration observed in canopy gaps.
	White Pine	80		20	139	Whi	te Spruce	Low	>20 feet	>20 feet	
	Paper Birch	2	Seedling	8		Ва	lsam Fir	Low	Variable	Variable	
	Red Pine	5		20		Re	d Maple	Medium	Variable	Variable	
No	orthern White Cedar	5	Seedling	8		Hazelr	ut (Beaked)	Low	5 - 10 feet	5 - 10 feet	
	Red Maple	3		8		Wł	nite Pine	Low	< 5 feet	< 5 feet	
	Bigtooth Aspen	5		16							
32	622 - Lov	/land Shrub		Nor	ne	13.0			No)	Stand is primarily marsh with cedar on the perimeter. Intermittent stream
						Sub-Ca	nopy Species	Density	Avg. Height	Size	runs through cedar patch in north west corner of stand.
						Northerr	White Cedar	High	>20 feet	>20 feet	
33	622 - Lov	/land Shrub		Nor	ne	3.7			No)	
34	4133 - Aspe	n, Mixed Pi	ne i	Poletimb	er Well	34.3	51		N/A	A	Trace amounts of white spruce and balsam fir. More Pine regen to the
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	North.
	Red Oak	10		16		WI	nite Pine	Low	Variable	Variable	
	White Ash	5	Seedling	8		Brad	ken Fern	Medium	Not Applicable	Not Applicable	
	Red Maple	5	Seedling	8		R	ed Pine	Low	Variable	Variable	
	White Pine	10		18							•
	Balsam Poplar	5	Seedling	7							
	Red Pine	15		16	139						
	Quaking Aspen	50	Seedling	8	51						



Stand	Level 4 Co			Size Density	Acres	Stand Age E	BA Range	Managed 9	Site	General Comments
35	4110 - Sugar M	laple Assoc	ciation	Poletimber Well	8.4	105	51-80	N/	A	This stand is on a steep hillside. Rocky terrain with trace amounts of
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	scattered hemlock, cedar, oak, white pine and red pine. Thinned 2024 with Jungle Crumble sale.
	Sugar Maple	47		9 105	WI	hite Pine	Low	Variable	Variable	man sangle Gramble sale.
	Basswood	38		15	Iro	onwood	Low	Variable	Variable	
	Red Maple	11		9	Whi	te Spruce	Low	Variable	Variable	
	Paper Birch	4		10						-
36	4130	- Aspen		Sapling Well	6.0	13	Immature	N/	A	Harvested 2012 with Matamoosy sale #12-009-10-01.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	90	Log	2 13	Haze	elnut (Spp.)	High	5 - 10 feet	5 - 10 feet	
	White Pine	5		20					1	
	Red Maple	5	Log	2						
37	6132 - Mixed Lowla	ınd Forest v	vith Cedar	Poletimber Well	16.8	127	81-110	N/.	A	Ash saplings to the North. Wet Standing water but no movement Some
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	trace pines and pine regen on higher ground.
	Black Ash	44	Sapling	6	Pin	es (spp.)	Low	Variable	Variable	
	Black Spruce	2	Pole	4	Whi	te Spruce	Low	Variable	Variable	
	Red Maple	2		10	Ва	llsam Fir	Low	Variable	Variable	
No	orthern White Cedar	45		9 127						1
	Hemlock	5		12						
	Balsam Poplar	2	Seedling	9						
38	4130	- Aspen		Poletimber Well	67.1	43		N/.	A	Spruce and Fir removed in portions of stand due to Spruce Budworm
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	outbreak in 2016. Black ash, white spruce, paper birch, basswood and maple are present in the stand and occur mostly in small patches or
	Sugar Maple	5	Sapling	6	Brad	cken Fern	Medium	Not Applicable	Not Applicable	
	White Pine	5		20 139	Ва	ılsam Fir	Low	Variable	Variable	few acres in size. Aspen size variable in some areas.
	Quaking Aspen	80	Seedling	7 43						1
	Red Pine	5		14						
	White Ash	5	Sapling	6						
39	6120 - Lov	wland Ceda	ır	Poletimber Well	14.9	127	111-140	N/.	A	Spruce and Fir removed in portions of stand due to Spruce Budworm
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	outbreak in 2016. Wet soils trace amounts of black spruce and white birch and balsam poplar.
No	orthern White Cedar	85		13 127	Ва	lsam Fir	Medium	Variable	Variable	and and an popular.
	Black Ash	5	Seedling	5			,		•	4
	Balsam Poplar	10		13						

Crystal Falls Mgt. Unit



Stand	nd Level 4 Cover Type		Size Density	Acres	Stand Age E	BA Range	Managed S	Site	General Comments	
40	6120 - Lo	wland Ceda	r	Sawtimber Well	8.9	118	111-140	N//	A	Trace amounts of white spruce and paper birch. Most of tag alder is
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	concentrated in the north east corner. Pine in super canopy.
	Red Pine	5		16	Ва	Balsam Fir		Variable	Variable	
	White Pine	30		18	T	ag Alder	High	5 - 10 feet	5 - 10 feet	
	Hemlock	5		10	F	Red Pine	Low	Variable	Variable	
No	orthern White Cedar	55		10 118	Haz	elnut (Spp.)	Low	5 - 10 feet	5 - 10 feet	
	Red Maple	5		8		ite Spruce	Medium	Variable	Variable	
					W	hite Pine	Low	Variable	Variable	
41	42210 - Na	tural Red Pi	ne	Sawtimber Well	51.4	139	111-140	N/A	A	Trace amounts of paper birch, fir, and aspen. Cedar understory very thick below pine. Hemlock concentrated in the north west corner.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	thick below pine. Hermock concentrated in the north west corner.
	White Pine	20		15	Norther	n White Cedar	Full	>20 feet	>20 feet	
	Red Pine	70		15 139	Wh	ite Spruce	Low	Variable	Variable	
	Hemlock	10		12	W	hite Pine	Low	Variable	Variable	
					F	Red Pine	Trace	Variable	Variable	
					Ва	alsam Fir	Low	Variable	Variable	
42	6220 - A	lder/Willow		None	20.9			No	0	Marsh area surrounding West Branch of Sturgeon River. Far north part of stand contains a mix of maple, pine, oak, aspen. Most of wooded
					Sub-Ca	anopy Species	Density	Avg. Height	Size	area would be within a 300 foot buffer of the river.
						Alder	Low	5 - 10 feet	5 - 10 feet	
43	4131 - A	Aspen, Oak		Sapling Well	35.1	1	Immature	N/A	A	Harvested 2024 with Jungle crumble sale.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	
	Red Oak	20		16	Bra	icken Fern	High	Not Applicable	Not Applicable	
	White Pine	10		18						
	Quaking Aspen	70	Log	1 1						
44	6120 - Lo	wland Ceda	r	Poletimber Well	9.8	127	111-140	N/A	A	Intermittent stream runs through stand and disappears at the southern
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	tip. Ground is very wet. High ground patches contain mature aspen but are close to the stream.
	White Spruce	2		11	T	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
	Balsam Poplar	3		8			1			
	Quaking Aspen	20		13						
	Black Ash	10	Sapling	6						
	Balsam Fir	5	Seedling	7						

Report 7 - Stands



Stand	d Level 4 Co	Level 4 Cover Type			nsity	ity Acres Stand Age BA Range			Managed Si	ite	General Comments
45	4110 - Sugar N	/laple Asso	ciation	Sawtimb	er Well	32.0	113	81-110	N/A		Harvested with Matamoosy sale #12-009-10-01 in 2012.Trace
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	amounts of white ash and cedar. Steep hill side on the south side of stand. Poor quality hardwood and oak on rocky soil.
	White Pine	5		20		Wh	ite Spruce	Low	Variable	Variable	
	Basswood	33		14		Ва	alsam Fir	Low	Variable	Variable	
	Sugar Maple	50		11	113	Lea	therwood	Low	5 - 10 feet	5 - 10 feet	
	Red Oak	10		20		Ir	onwood	Low	Variable	Variable	
	Paper Birch	2	Seedling	9							
46	4130	- Aspen		Sapling	Well	10.0	13 I	mmature	N/A		More Pine to the South. Harvested with Matamoosy sale #12-009-10-
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	01. Steep hill on South side of stand.
	Red Oak	5		12		Wh	ite Spruce	Medium	Variable	Variable	
	Quaking Aspen	85	Log	2	13	Haze	elnut (Spp.)	High	5 - 10 feet	5 - 10 feet	
	White Pine	10		20				,			<u>-</u>
47	6132 - Mixed Lowla			Poletimb		28.3	100	111-140	N/A		This is a valley with steep rock walls covered with pine. Pole sized aspen and paper birch present in the stand are mostly around edges
	Canopy Species		Size Class		Age						and in slightly higher areas of the drainage. Trace amounts of pine.
	Balsam Fir	4	Seedling	8							
No	orthern White Cedar	55	Seedling	9	100						
	Paper Birch	2	Seedling	7							
	Quaking Aspen	2	Seedling	7							
	Black Ash	37	Sapling	5							
48	42290 - Natu	ural Mixed I	Pine	Sawtimb	er Well	10.4	139	141-170	N/A		Lots of white birch poles and clumps of cedar along edge that slopes down into black ash/cedar stand. White pine saplings found in clumps
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	scattered in the stand.
	Paper Birch	3	Seedling	7		W	hite Pine	Medium	< 5 feet	< 5 feet	
	Red Pine	20		20		Haze	elnut (Spp.)	High	5 - 10 feet	5 - 10 feet	
	White Pine	55		20	139						
	Quaking Aspen	10		13							
	Red Maple	5		12							
No	orthern White Cedar	5	Seedling	8							
	Red Oak	2	Seedling	8							
49	6120 - Lov	wland Ceda	ar S	awtimbe		n 7.1	123	51-80	N/A		Open canopy with tag alder along portion near the stream.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Pine	10		18		Re	ed Maple	Low	Variable	Variable	
	Paper Birch	5		10		В	ack Ash	Medium	Variable	Variable	
	Black Spruce	5	Seedling	7		T	ag Alder	High	5 - 10 feet	5 - 10 feet	
	Red Pine	5		18				<u></u>			
No	orthern White Cedar	75		13	123						

Crystal Falls Mgt. Unit

Report 7 - Stands



Stand	d Level 4 Co	over Type		Size Density	Acres	Stand Age	BA Range	Managed S	Site	General Comments	MICHIGAN S
50	42210 - Nat	tural Red Pi	ine	Sawtimber Well	8.1	139	141-170	N//	4	Large Pine trees situated on rock outcropping.	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
	White Pine	20		18	Re	ed Maple	Low	Variable	Variable		
	Paper Birch	5		8	Ва	alsam Fir	Medium	Variable	Variable		
	Red Pine	70		16 139	Haze	elnut (Spp.)	High	5 - 10 feet	5 - 10 feet		
	Red Maple	5		8	Wh	ite Spruce	Low	Variable	Variable		
51	6120 - Lov	wland Ceda	ır	Poletimber Well	5.9	118	171-200	N//	4		
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
No	orthern White Cedar	80		10 118	W	hite Pine	Full	< 5 feet	< 5 feet		
	Black Ash	5	Seedling	7	T	ag Alder	Low	5 - 10 feet	5 - 10 feet		
	Black Spruce	15	Seedling	7	В	lack Ash	Low	Variable	Variable		
					Ва	alsam Fir	Low	Variable	Variable		
					Bla	ck Spruce	Low	Variable	Variable		
52	4133 - Aspe	en, Mixed P	ine	Sapling Well	38.2	21	Immature	N//	4	Many areas of stand are fully stocked with Pine logs.	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
	Quaking Aspen	75	Log	2 21	Bra	cken Fern	High	Not Applicable	Not Applicable		
	White Pine	15		20 139	W	hite Pine	Low	Variable	Variable		
	Red Pine	10		16			·			•	
53	622 - Lov	vland Shrub)	None	5.1			No)		
54	6139 - Mixed	Lowland Fo	orest	Poletimber Well	117.6	56	81-110	N/A	Α	Aspen, red maple with pine component. dense hazel understory	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	of stand adjacent to pine are upland but transition to low ground alder as near Mitchell Creek. Bluffs along creek.	a with tag
	Red Maple	15		9	Hazel	nut (Beaked)	Full	5 - 10 feet	5 - 10 feet	3	
	White Spruce	5		10	Ва	alsam Fir	Low	10 - 20 feet	10 - 20 feet		
No	orthern White Cedar	10		9	Su	gar Maple	Low	10 - 20 feet	10 - 20 feet		
	Black Ash	10	Sapling	6	Wh	ite Spruce	Low	5 - 10 feet	5 - 10 feet		
	Balsam Fir	5	Seedling	8			,				
	Red Pine	10		14							
	Paper Birch	10		10							
	White Pine	10		18							
	Tamarack	5		10							



Stand	Level 4 C	Cover Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
55	4136 - Asper	, Mixed Co	nifer	Poletimb	er Well	17.5	48	81-110	N/A	4	Edges of stand hold more mature Aspen. Center is still filling in with
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	saplings of BAM, Cherry, Spruce and Fir. Stream located on far Southern side.
C	Quaking Aspen	45		10	48	Whi	te Spruce	Low	Variable	Variable	- Countries of
	Red Pine	5	Seedling	8		Thir	mbleberry	Medium	5 - 10 feet	5 - 10 feet	
	Sugar Maple	5		10		Ire	onwood	Medium	Variable	Variable	
Е	Balsam Poplar	15	Sapling	6		Ва	ılsam Fir	Low	5 - 10 feet	5 - 10 feet	
	Red Maple	5		10		W	hite Pine	Low	Variable	Variable	
	Black Cherry	5	Sapling	6							-
	White Pine	5		20							
	Balsam Fir	15		8							
56	42260 - Natural Pi	ne, Mixed D	Deciduous	Sawtimb	er Well	64.4	105	81-110	N/A	Ą	More Sugar Maple and Ironwood to the East. Aspen located along
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Northern edges of stand near an intermittent stream. Pockets of Cedar and Tag Alder mixed throughout.
	White Pine	50		20	105	Ire	onwood	Medium	Variable	Variable	and rag rider mixed uneagneds.
	Red Pine	15		16		Ва	ılsam Fir	Medium	5 - 10 feet	5 - 10 feet	
	Paper Birch	10		8		Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet	
	Sugar Maple	10	Seedling	6		Whi	te Spruce	Medium	10 - 20 feet	10 - 20 feet	
Nortl	hern White Cedar	5		10		Sug	gar Maple	Low	10 - 20 feet	10 - 20 feet	
C	Quaking Aspen	10		10							-
57	6120 - Lo	wland Ceda	ır	Sawtimb	er Well	91.4	101	171-200	N/A	4	Very thick Cedar swamp. Pine regeneration along upland edges.
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Black Ash	10	Sapling	6		Ta	ag Alder	High	5 - 10 feet	5 - 10 feet	
Nortl	hern White Cedar	75		11	101	Whi	te Spruce	Low	Variable	Variable	
	Paper Birch	5		8		W	hite Pine	Low	Variable	Variable	
I	Black Spruce	5	Seedling	6		Ва	ılsam Fir	Low	5 - 10 feet	5 - 10 feet	
C	Quaking Aspen	5	Seedling	8				-		-	
58	42210 - Na	tural Red Pi	ine	Sawtimb	er Well	68.7	105	81-110	N/A	4	More White Pine to the North. Cut in 1992. Cut in 2015 under Too
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Many Cooks Pine #12-073-12
	Sugar Maple	2	Sapling	6			hite Pine	Low	Variable	Variable	
	Red Pine	65		18	105	Sug	gar Maple	Low	5 - 10 feet	5 - 10 feet	
	Paper Birch	8		9		Ba	ılsam Fir	Low	5 - 10 feet	5 - 10 feet	
	White Pine	25		18						1	4