

Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12118 Entry Year: 2027 Acreage: 2,032 County: Iron

Management Area: Way Dam Complex

Stand Examiner: Ed Rice

Legal Description:

T46N R32W sec 6, 8, 21, 22 T45N R32W sec 4, 8, 9, 17, 18, 19, 20

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the aspen age class acres. Attempt to promote diversity in conifer species to minimize future spruce budworm impacts. Protect the riparian areas and transition zones during management activity.

Soil and topography:

Stoney/sandy complex loams with sandy loam soil interspersed throughout. The bog and lowland areas consist of black much soils.

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

Within the compartment the ownership is contiguous state land. Surrounding the compartment are large blocks of industrial forest lands (CFA) and smaller parcels of non industrial private landowners. Timber management has been ongoing throughout the area.

Unique Natural Features:

Loon have been observed on Deer Lake.

Archeological, Historical, and Cultural Features:

None identified

Special Management Designations or Considerations:

Winter deer complex

Watershed and Fisheries Considerations:

Deer River is a cold water trout stream. Bone Lake and a portion of Deer Lake are also in this compartment. Minimum buffers for lakes are 100 feet plus 5 feet per 1% increase of slope. Trout streams require a 300 foot buffer where aspen management is involved. 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 is primarily important as a north-south corridor between Shank Lake Deeryard and the Deer Lake Deeryard. This area historically held an abundance of deer that the heavily cut deeryard to the east used to hold. Much of the compartment is relatively young aspen, which is suitable for featured species grouse, deer, woodcock and bear. Lowlands are suitable habitat for snowshoes, bobcat, fisher, beaver, muskrat and otter. Current winter deer use is very limited.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured till and glacial outwash sand and gravel and post-glacial alluvium. There is insufficient data to determine the glacial drift thickness (greater than 100 feet in places). Intrusive igneous rocks and the Proterozoic Hemlock Formation underlie the glacial drift. The Hemlock does not have a current economic use. Abandoned iron mines are located six miles to the southwest, part of the Western Menominee Iron Range. This compartment was previously leased for metallic exploration and potential may exist. The nearest gravel pit is one mile to the north, but there should be some potential in the compartment. There is no economic oil and gas production in the UP.

Vehicle Access:

Good to fair, the Deer Lake Road runs through the middle of the compartment and is an improved gravel county road.

Survey Needs:

T45N R32W sec 4W1/16SW1/16W1/16 sec 4, 9

Recreational Facilities and Opportunities:

Deer Lake State Forest Campground and Boat Access Site is located within the compartment.

Fire Protection:

Much of this compartment holds an extremely heavy spruce/fir component. This high fuel loading combined with recent spruce budworm lends to potential for a large fire. Given the alignment of weather conditions and fuel, a fire on such a day will pose extremely problematic to control efforts. For the uplands, access is generally good, however there are large expanses of bog that would pose access problems. Water sources are plentiful.

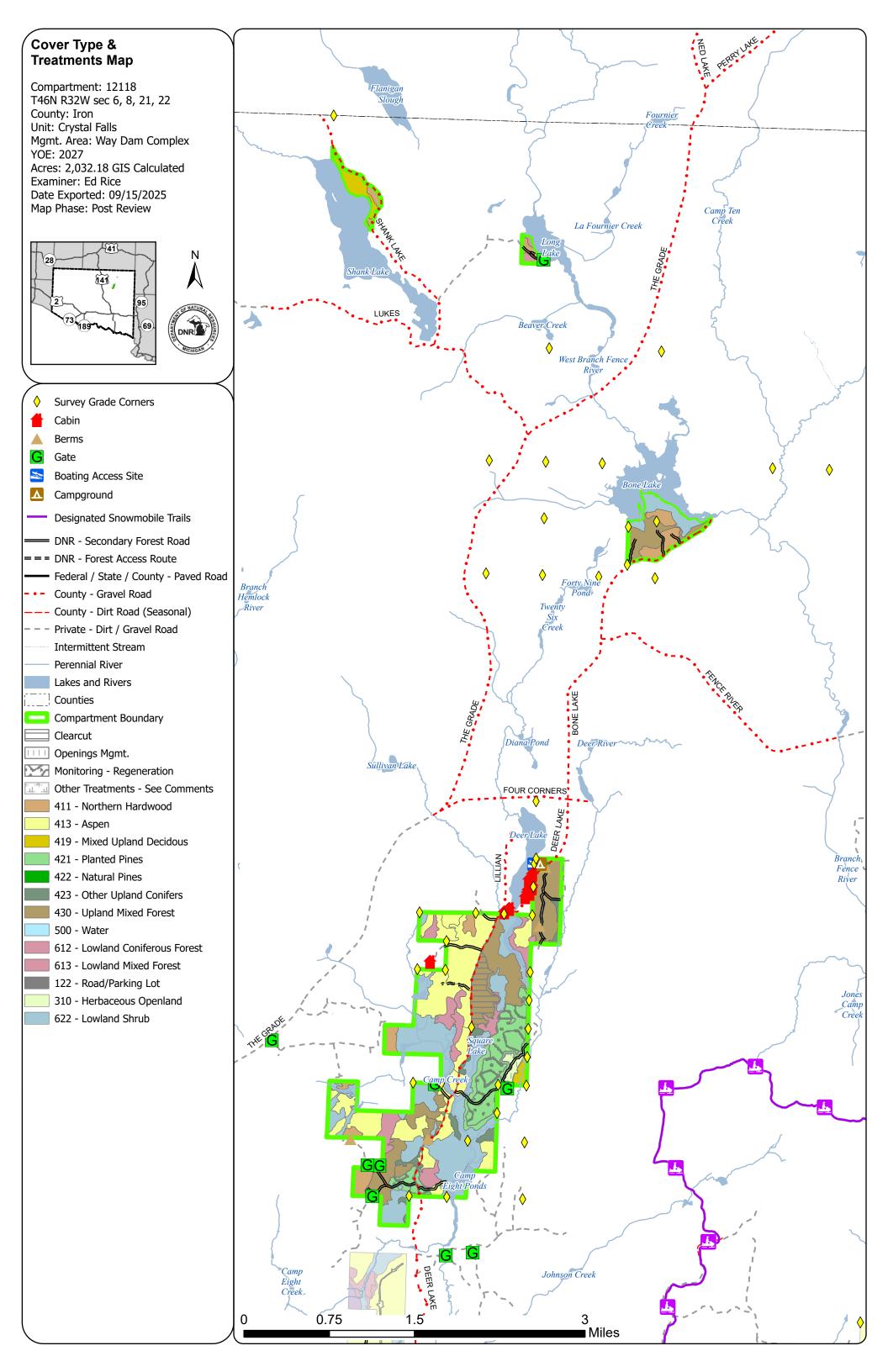
Additional Compartment Information:

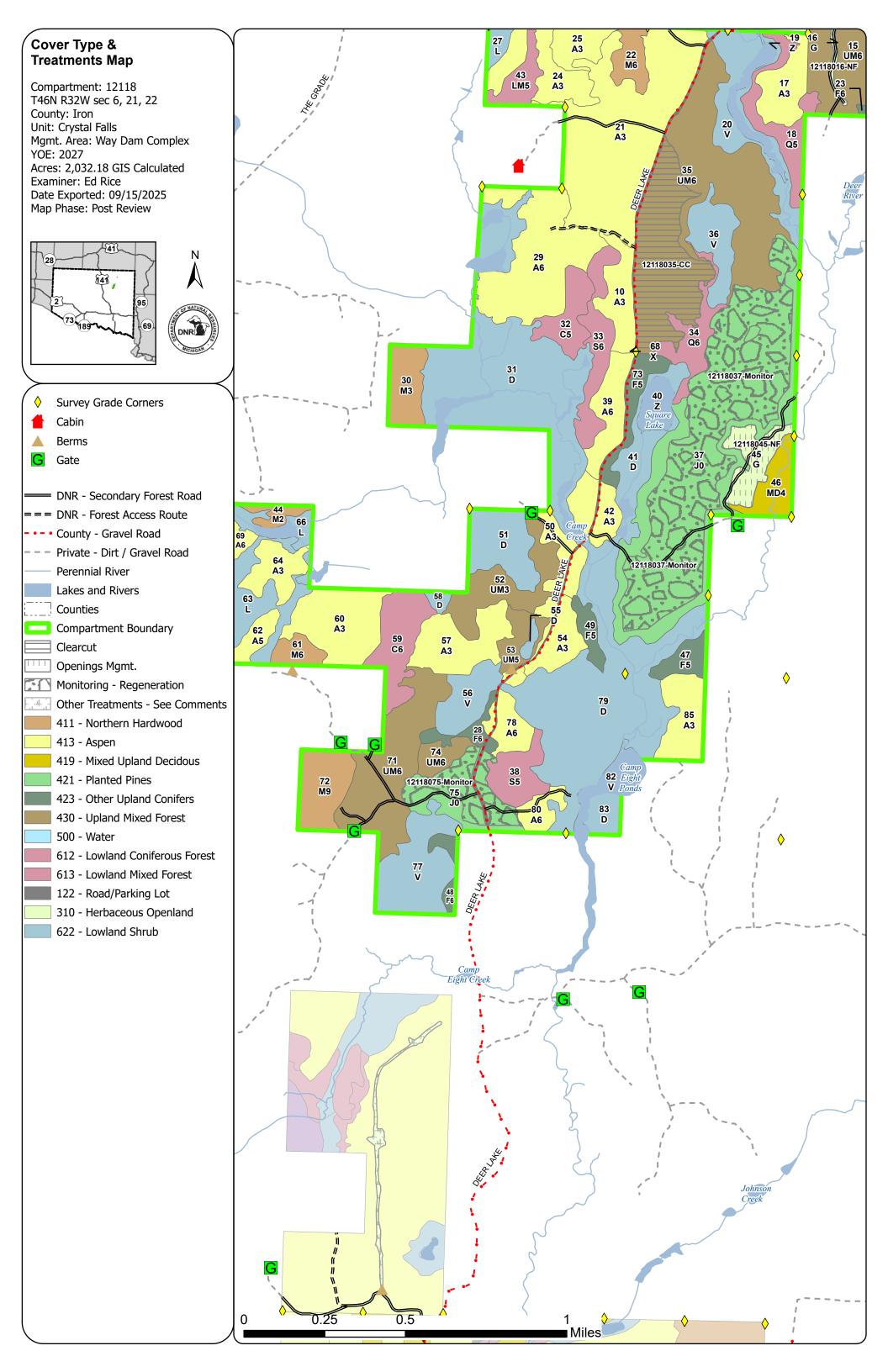
The following reports from the Inventory are attached:

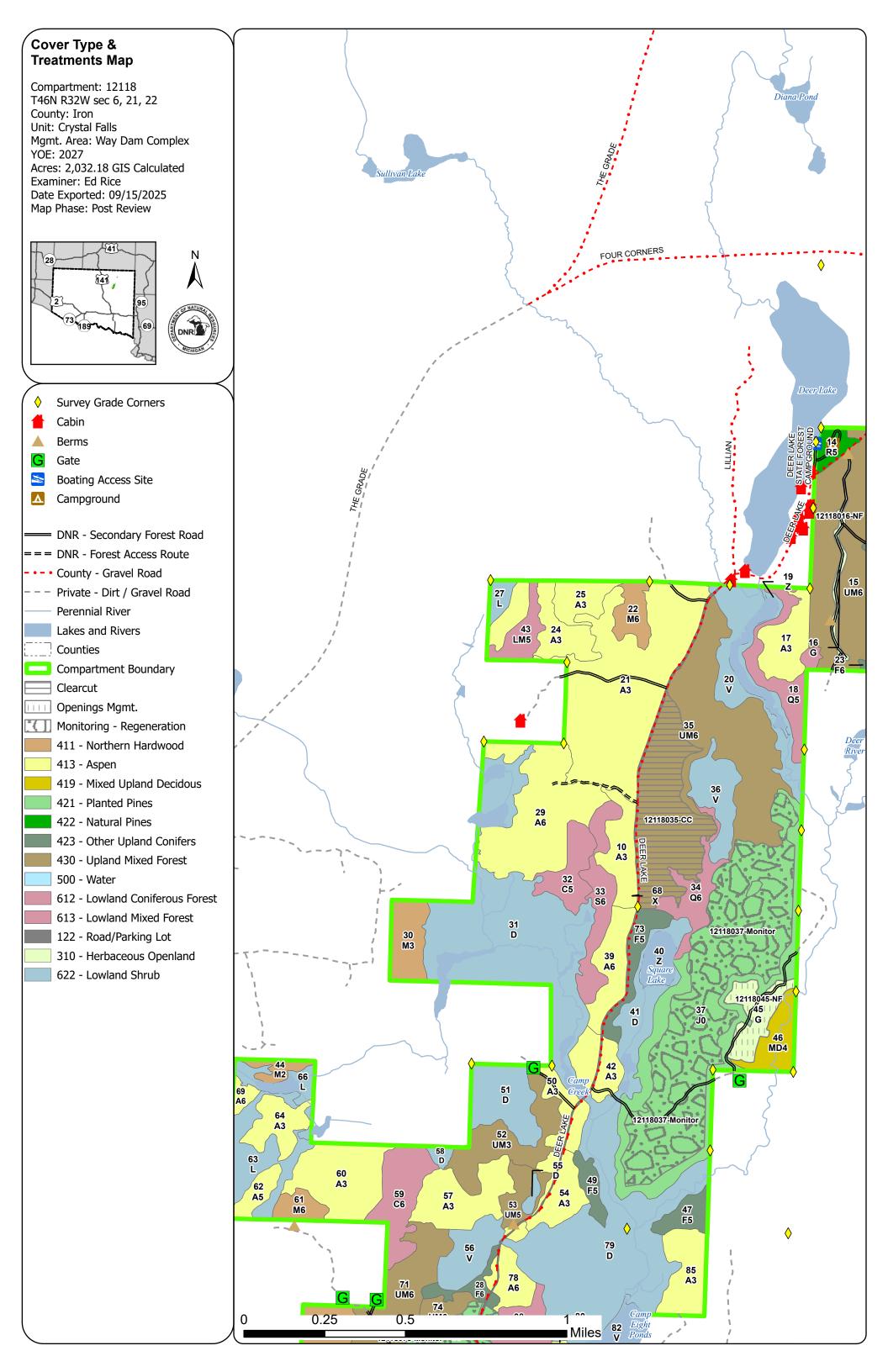
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

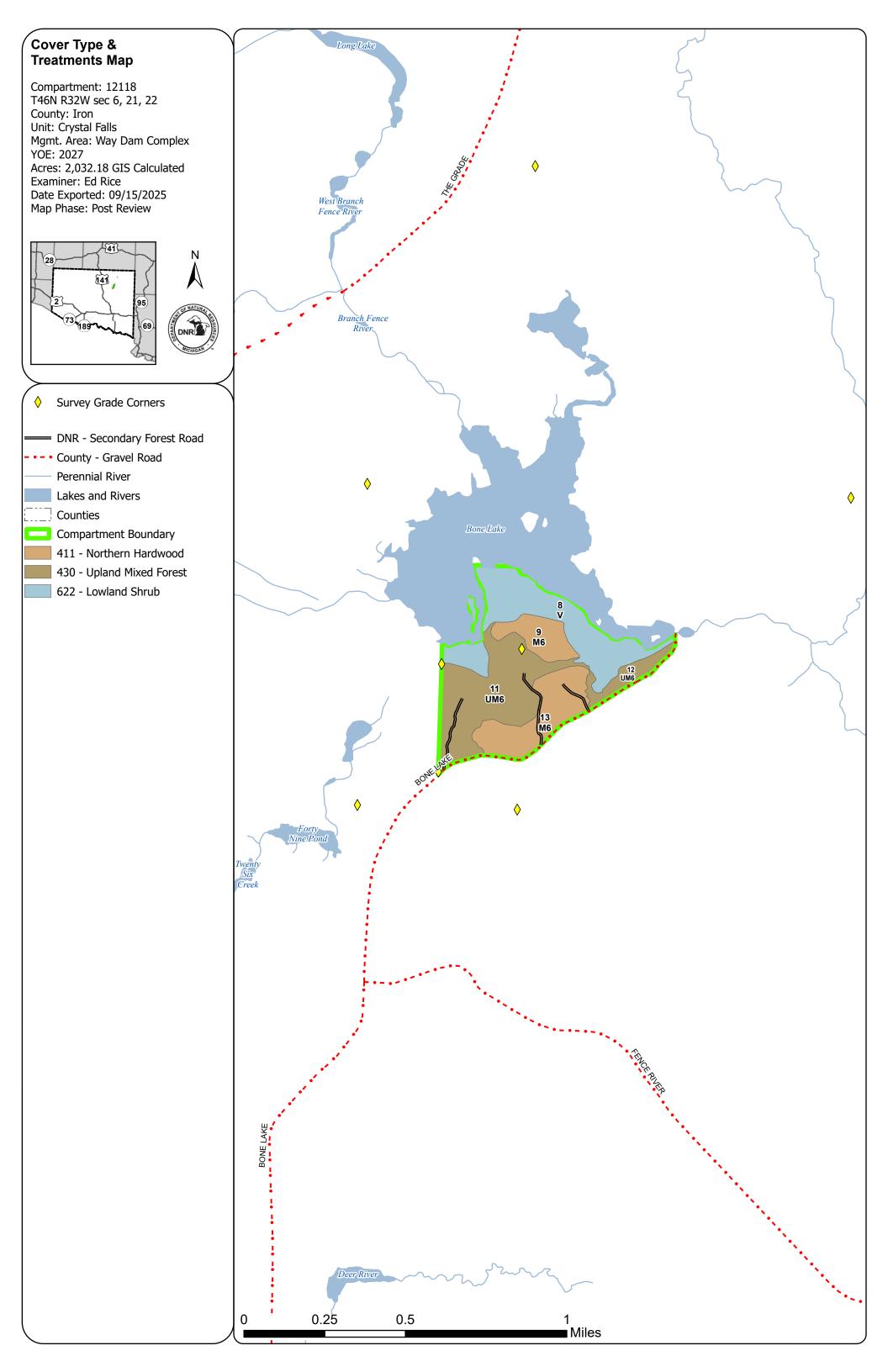
The following information is displayed, where pertinent, on the attached compartment maps:

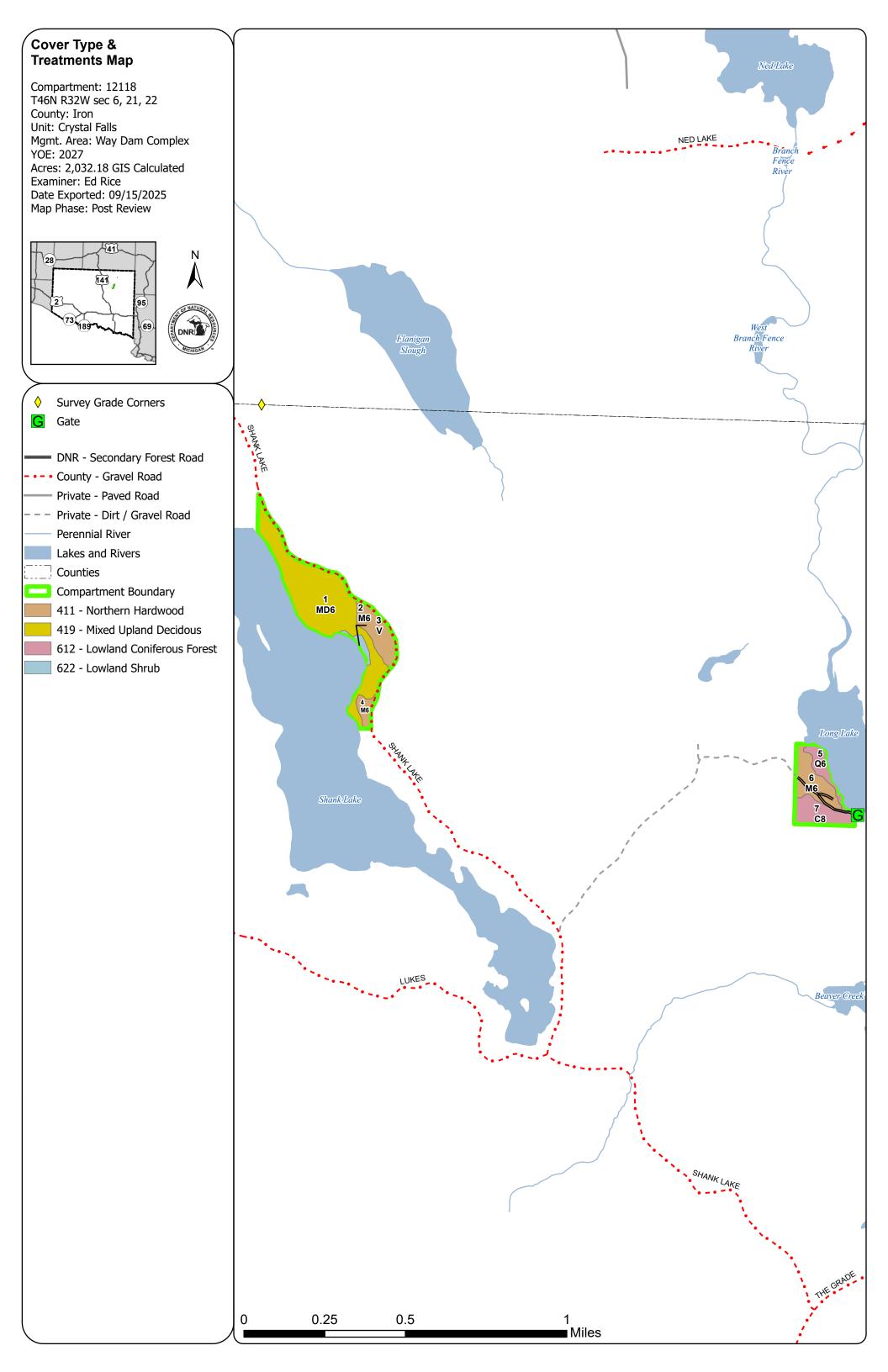
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

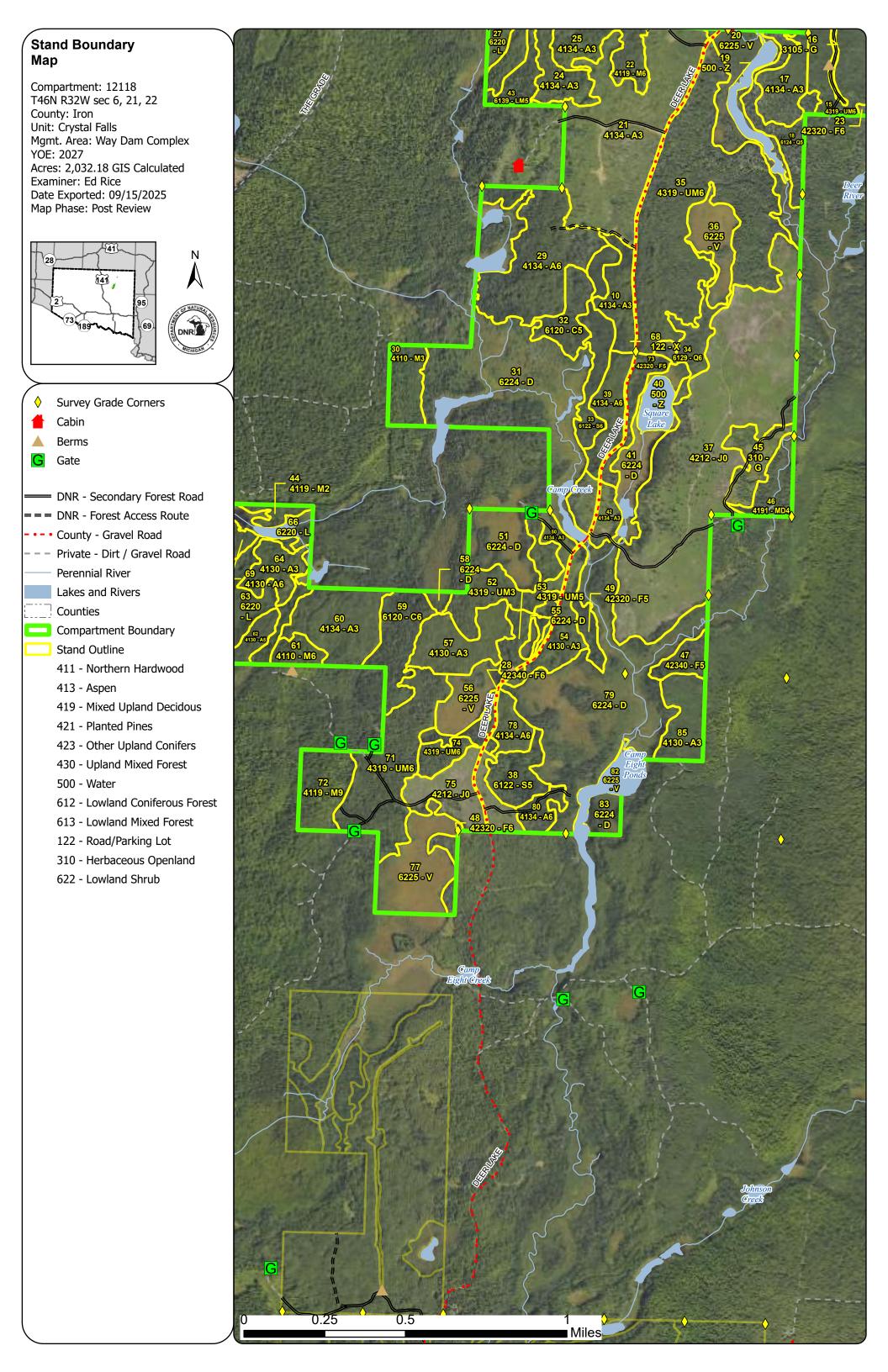


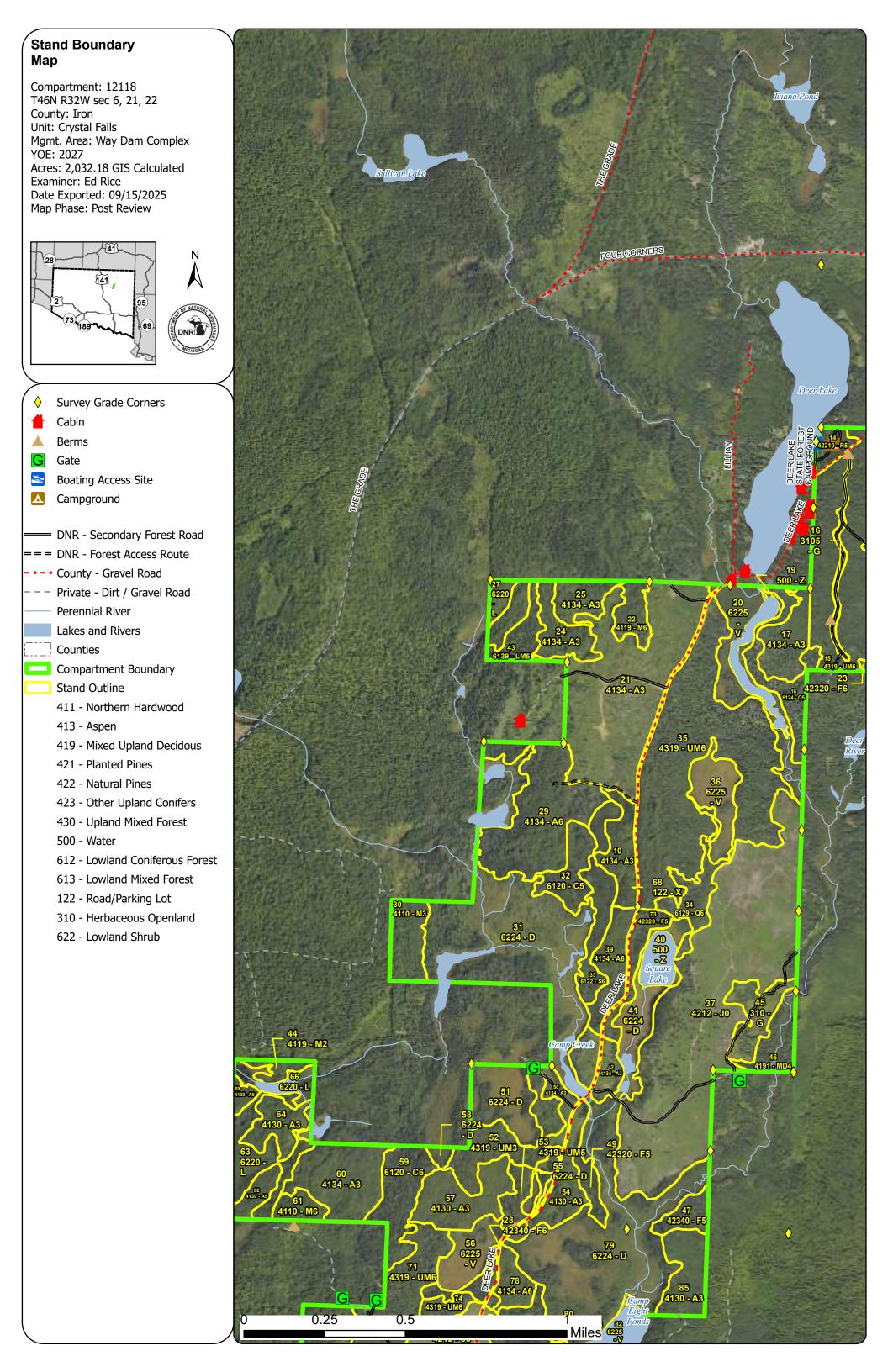


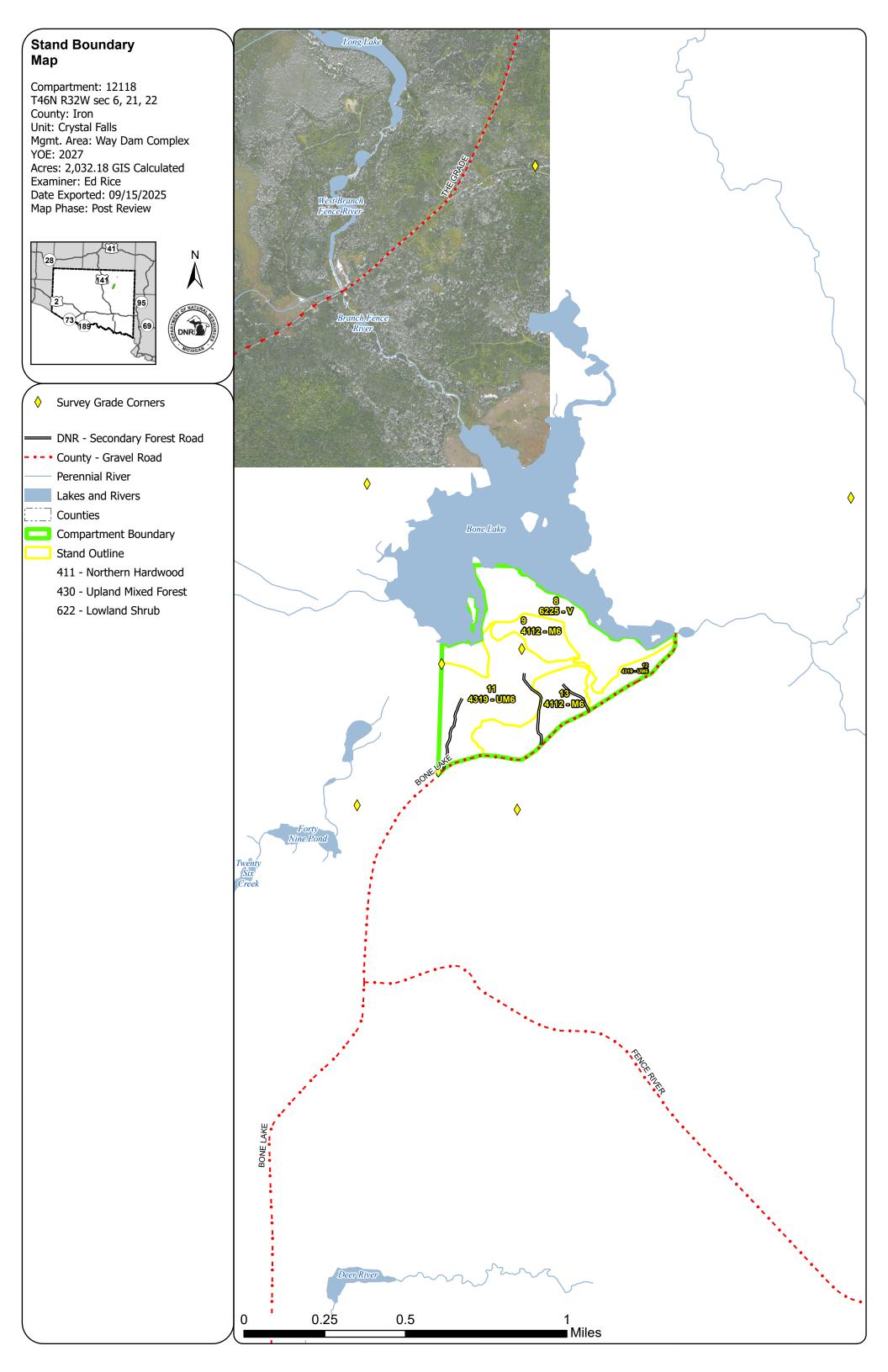


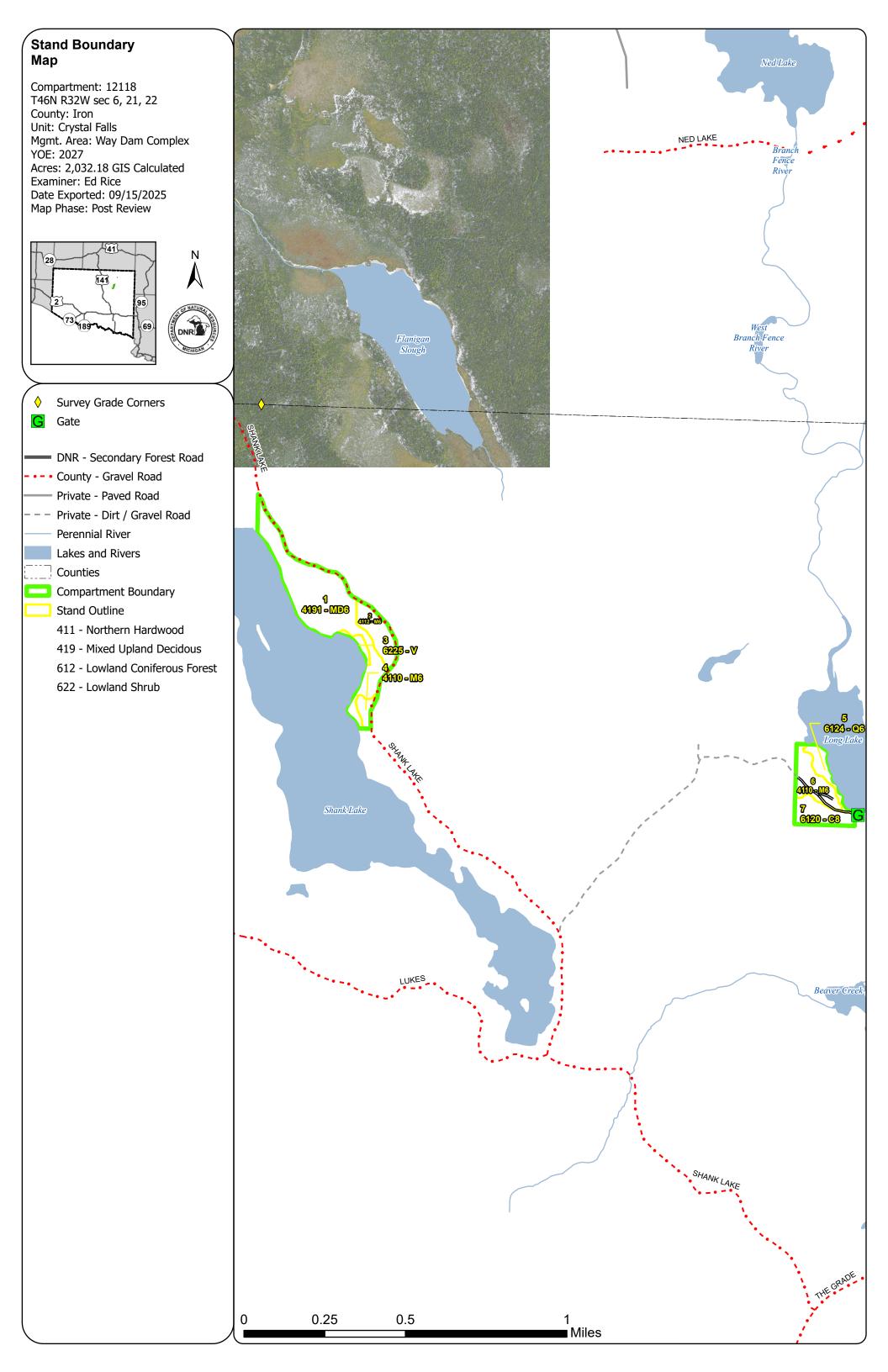


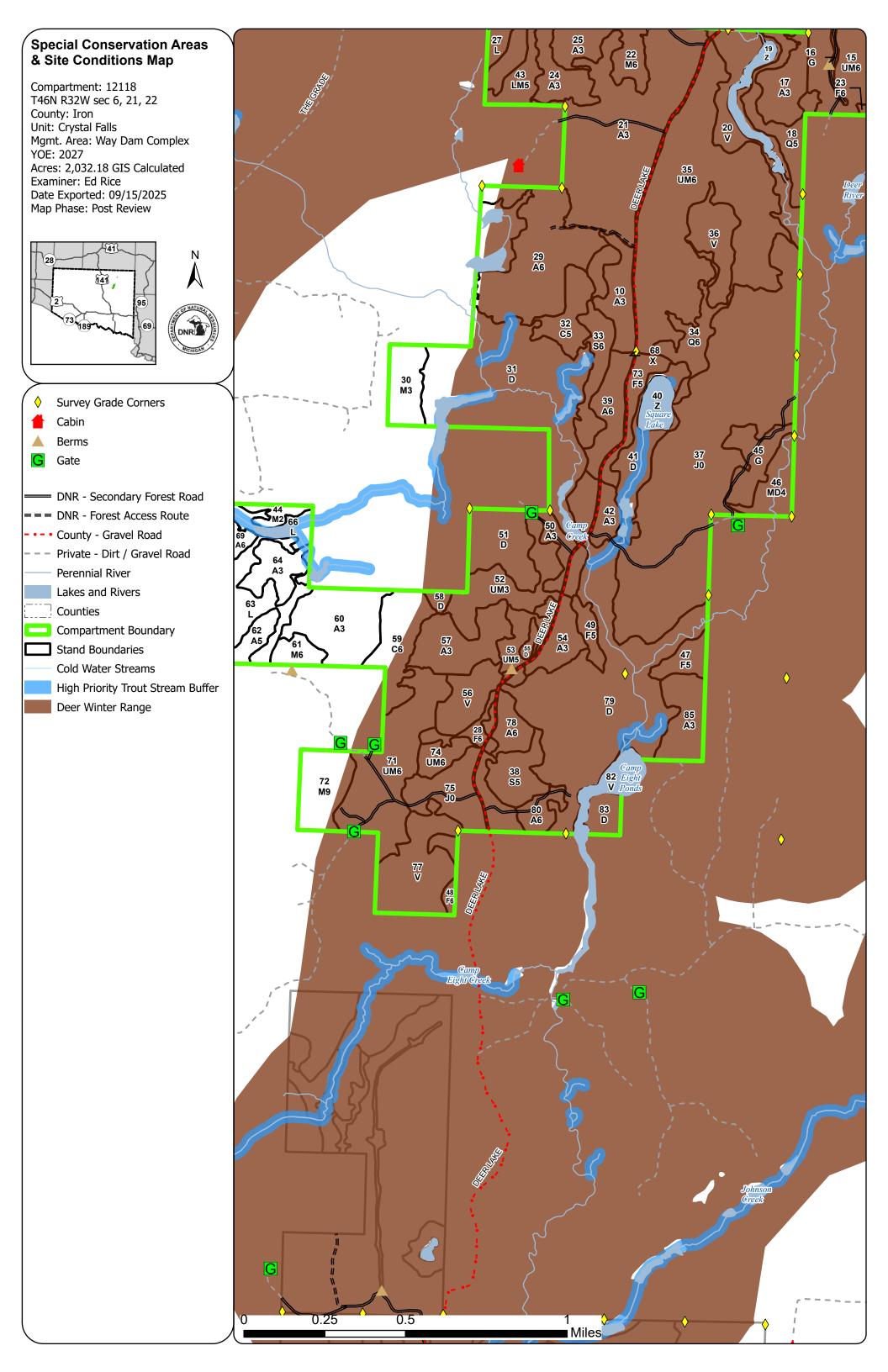


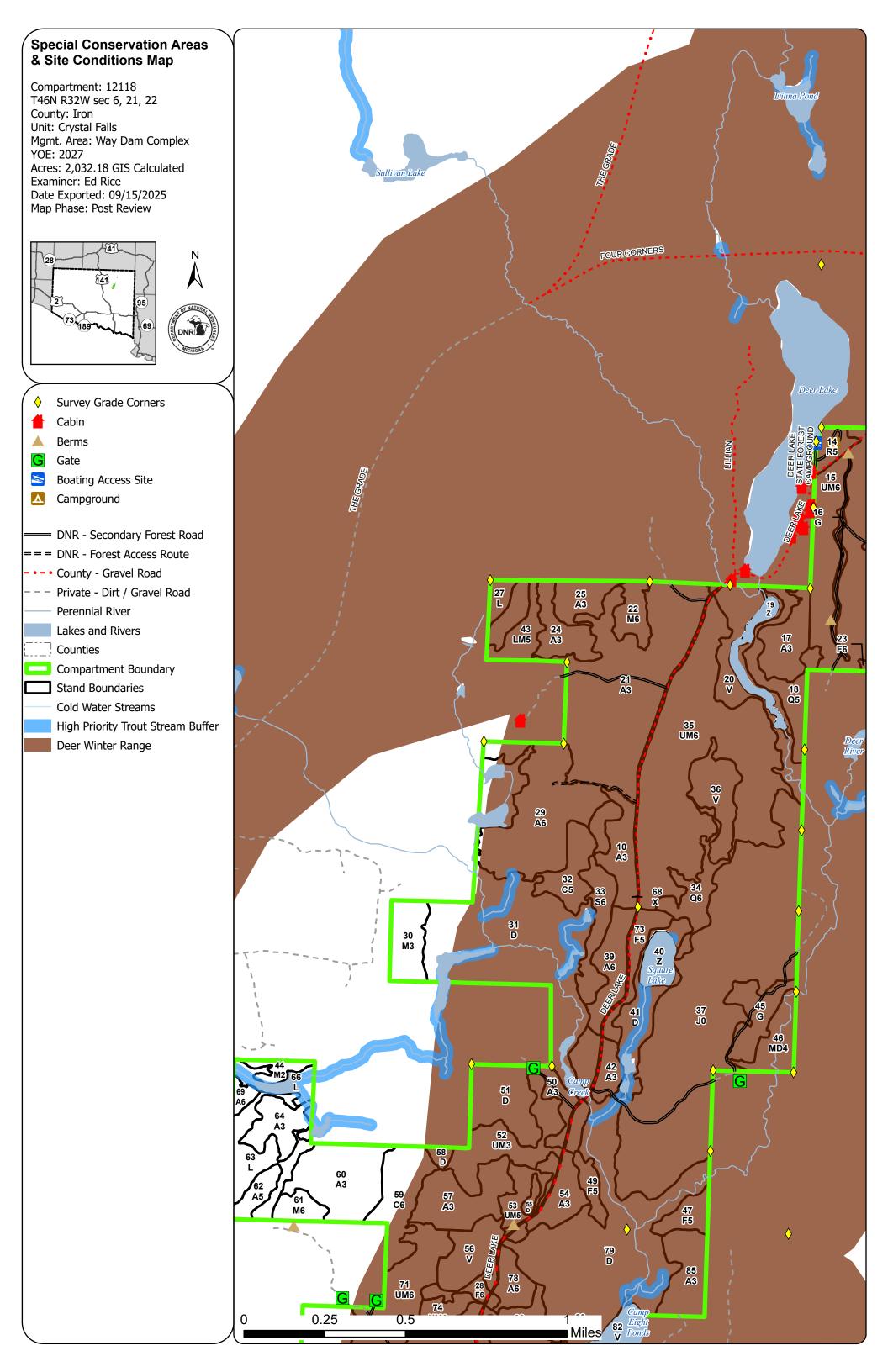


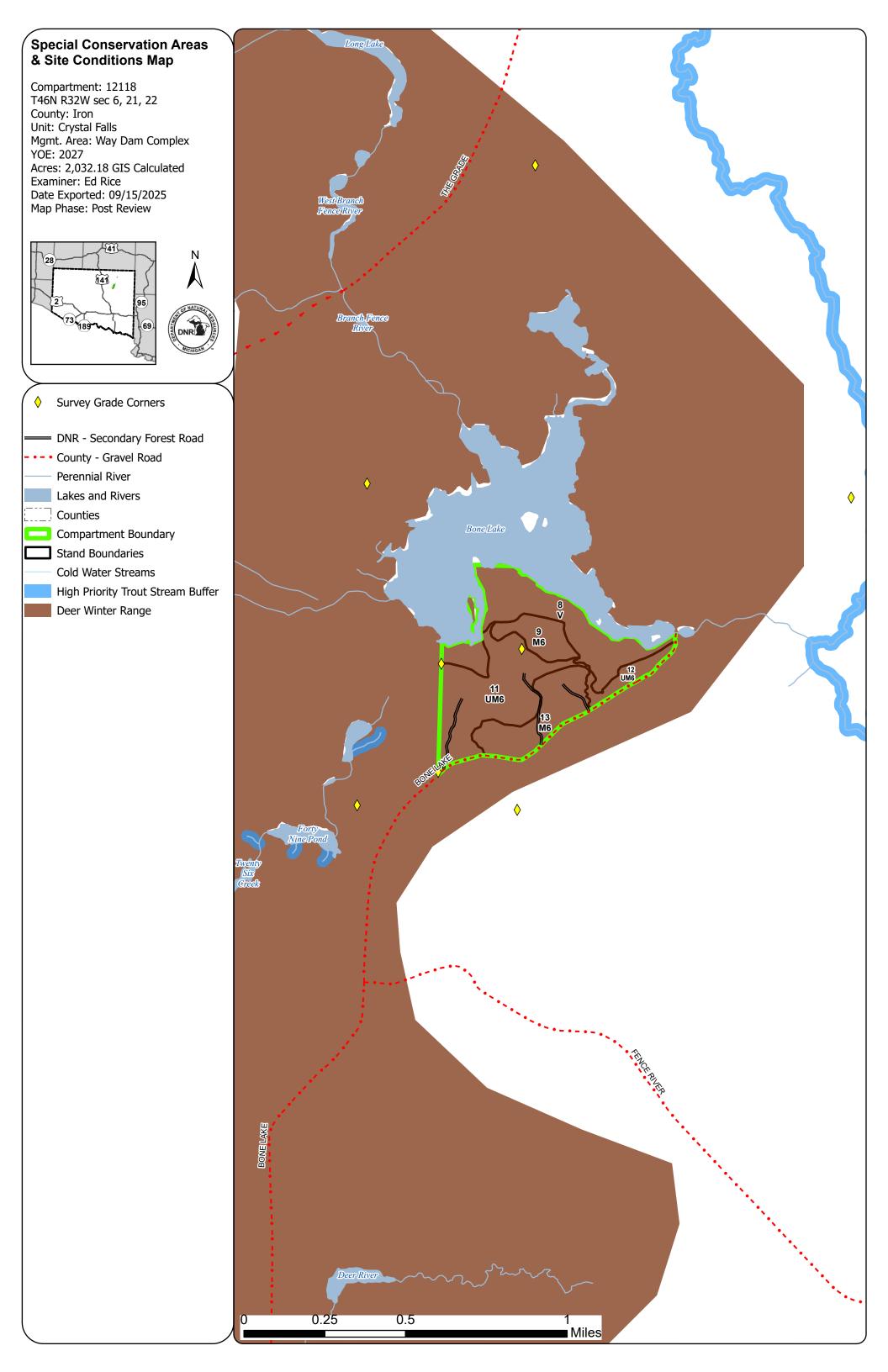


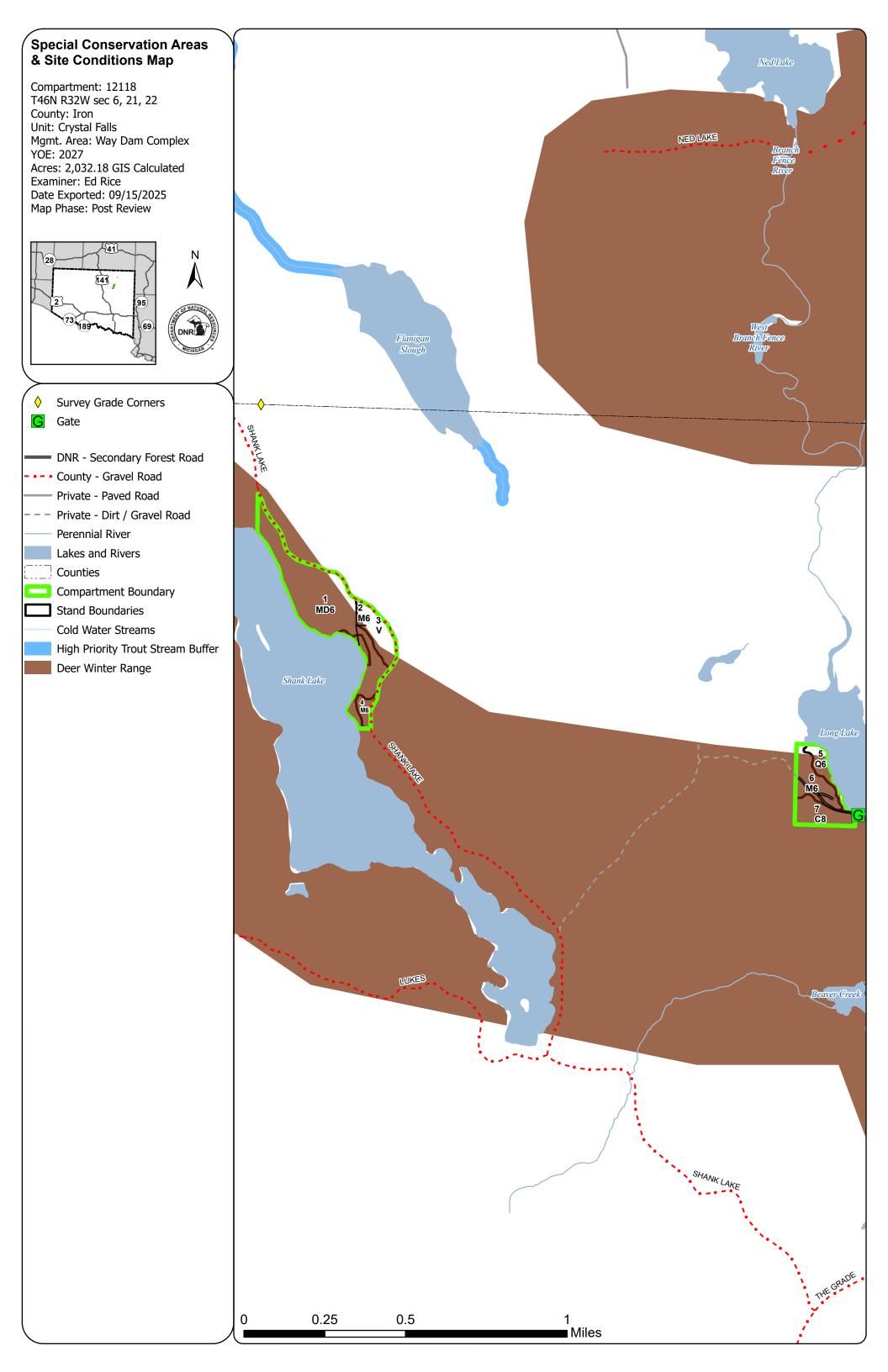












Report 1 – Total Acres by Cover Type and Age Class

Crystal Falls Mgt. Unit

Ed Rice: Examiner

Compartment 118 Year of Entry 2027



Age Class

	¥05		3 / 8	2 / 4	P A	3 / 6		3/8	\$ / K	R &	* 8	8 /3	ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	S. S.	N S	No. of the second secon	St. St.	\$ Jres	Legis Logis
Aspen	0	139	41	141	45	74	0	0	0	0	0	0	0	0	0	0	0	0	439
Bog	173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	173
Cedar	0	0	0	0	0	0	0	0	0	0	0	17	8	26	0	0	0	0	50
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Jack Pine	228	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	228
Lowland Conifers	0	0	0	0	0	5	0	17	21	0	0	0	0	0	0	0	0	0	43
Lowland Mixed Forest	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Shrub	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Lowland Spruce/Fir	0	0	0	0	0	0	0	17	23	0	0	0	0	0	0	0	0	0	40
Mixed Upland Deciduous	0	0	0	0	0	0	15	40	0	0	0	0	0	0	0	0	0	0	55
Northern Hardwood	0	0	0	17	6	0	0	11	11	0	0	0	0	0	0	0	0	84	129
Red Pine	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Treed Bog	317	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	317
Upland Mixed Forest	0	0	0	29	56	155	103	54	0	0	0	0	0	0	0	0	0	0	395
Upland Spruce/Fir	0	0	0	0	9	19	19	5	0	0	0	0	0	0	0	0	0	0	52
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Total .	810	139	41	187	116	264	144	144	55	0	0	17	8	26	0	0	0	84	2031



Report 2 – Treatment Summary

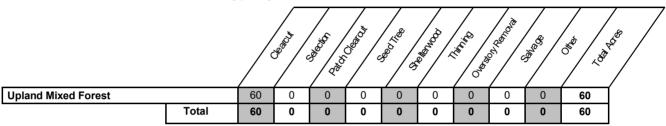
Crystal Falls Mgt. Unit Year of Entry: 2027

Acres of Harvest

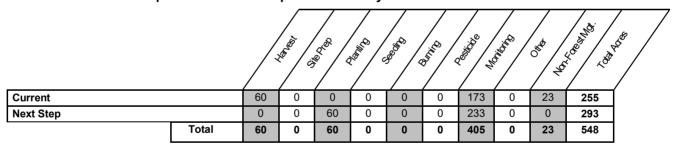
Compartment 118
Total Compartment Acres: 2,032

Commercial Harvest - 180 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



s t а n

d

Treatment Name

Acres

Stand CoverType

Size Density Stand Age

BA **Treatment** Range Type

Treatment Method

Cover Type Objective

Age Structure Habitat Cut

No

Approved Treatments:

12118016-NF

5.5 3105 - Mixed Upland Herbaceous

99

NonForestMgt Openings Mgmt.

310 -Herbaceous Openland

Previous Inventory

Prescription Open condition maintained by burning or mechanical treatment.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2016

12118035-CC

60.0 4319 - Mixed Upland

6 46 81-110 Harvest

Clearcut

42140 - Planted **Planting** Mixed Pine

Record

No

Prescription Harvest all aspen, jack pine, spruce and balsam fir trees that are 4.6" DBH and larger. Retain all black cherry, paper birch, red pine and white

Specs:

Next Step Planting, Unfurrowed; Monitoring, Artificial Regen

Treatments:

Acceptable A mix of white pine, spruce, fir and aspen is acceptable.

Regen:

Flat plant white pine at a rate of 300-600 trees per acres within 2 yrs of harvest. **Other**

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

12118037-

147.6 4212 - Planted Jack

Monitor

Pine

Monitoring

Monitoring -Regeneration 4212 - Planted

Jack Pine

No

Prescription Specs:

Next Step

; Monitoring, Artificial Regen (3yr)

Treatments:

Acceptable jack pine, w pine, r pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition:

Proposed Start Date: 10/01/2024

S t					-				Year of Entry	/: 2027	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
45	12118045-NF	17.0	310 - Herbaceous Openland	99			NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
Preso Spec		ondition n	naintained by burning	or mecha	nical trea	atment.					
	Step tments:										
Rege											
Othe Com	<u>r</u> ment:										
	Condition:										
Prop	osed Start Date:	10/01/2	2016								
75	12118075- Monitor	25.0	4212 - Planted Jack Pine	0	1		Monitoring	Monitoring - Regeneration	42120 - Planted Jack Pine		No
Preso Spec	cription es:										
	<u>Step</u> ; Monit tments:	toring, Art	ificial Regen (3yr)								
Acce Rege	<u>ptable</u> jack pir en:	ne									
Othe Com	<u>r</u> Percen <u>ment:</u>	t to Treat	= 100%								
Site (Condition:										

Report 3 -- Treatments

Compartment: 12118

Total Treatment Acreage Proposed: 255.1

Proposed Start Date: 10/01/2024

Crystal Falls Mgt. Unit

Crystal Falls Mgt. Unit

Compartment: 118
Year of Entry: 2027



Ed Rice: Examiner

Availa	ability for	Managemer	nt							
Total	Acres	Acres Avail	Acres	Ι	Domina	nt Site	e Con	dition	s	
Acres	Available	With Condition	Not Available		4A	2G	3Н	3J	5D	5E
418	409	0	8	Aspen						8
173	173	0	0	Bog						
50	0	0	50	Cedar			26		24	
23	23	0	0	Herbaceous Openland						
20	0	0	20	Jack Pine				6		15
43	0	0	43	Lowland Conifers				26		17
11	0	0	11	Lowland Mixed Forest						11
42	42	0	0	Lowland Shrub						
40	0	0	40	Lowland Spruce/Fir		17			23	
54	0	0	55	Mixed Upland Deciduous				55		
128	95	9	25	Northern Hardwood	9			25		
1	0	0	1	Red Pine				1		
317	317	0	0	Treed Bog						
269	206	0	62	Upland Mixed Forest				54		9
52	16	0	36	Upland Spruce/Fir				36		
9	9	0	0	Urban						
18	18	0	0	Water						
1,667	1,307	9	352	Total Forested Acres	9	17	26	201	47	60
	78%	1%	21%	Relative Percent						

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

Site No.		Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	4A: No markets available for these forest products	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: small acreage and lo	ow volume for timber sale in t	ihis remo	te stand.			

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2	Unavailable	3J: Water quality/BMPs (stream, river, or lake)		Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
3	Unavailable	5E: Long-Term Retention	2	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments:						
4	Unavailable	5D: Unproductive forest land	17	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	50	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	Comments:						
7	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	68	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: multiple vernal are	as throughout the stand make s	ale pr	eparation not feasible			

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8 Unspecified Unspecified Unspecified Unspecified Unavailable 3H: Deer Wintering Area -26 habitat is incompatible with harvest at this time Comments: very good potential for local deer using for winter range. SBW a minimal threat due to lowland black spruce Unspecified 9 3J: Water quality/BMPs 5E: Long-Term Retention Unspecified Unspecified Unavailable 6 (stream, river, or lake) Comments: Unspecified Unspecified Unspecified Unspecified 10 5D: Unproductive forest Unavailable 8 land Comments: small acre cedar stand in remote area far from markets Unspecified Unspecified 11 Unspecified 5E: Long-Term Retention Unspecified Unavailable 1 **Comments:** 12 Unavailable 5E: Long-Term Retention Unspecified Unspecified Unspecified Unspecified 15 Comments: 3J: Water quality/BMPs Unspecified Unspecified Unspecified 13 Unavailable 5E: Long-Term Retention 7 (stream, river, or lake) Comments:

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14	Unavailable	5E: Long-Term Retention	26	3J: Water quality/BMPs (stream, river, or lake)	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
C	Comments:						
15	Unavailable	5E: Long-Term Retention	1	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
C	Comments:						
16	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
17	Unavailable	5E: Long-Term Retention	3	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
C	Comments:						
18	Unavailable	5D: Unproductive forest land	23	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
C	Comments:						
19	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: general buffer to ac	djacent lowlands and drainage.	very lo	ow productivity			

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20	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	21	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
(Comments:						
21	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
22	Unavailable	5E: Long-Term Retention	11	3A: Conservation values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
(Comments:						
23	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: stand is adjacent to	o bog, small acreage, and no ro	ad acc	cess through private			
24	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: stand adjacent to S	Square Lake and associated lov	vlands				
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
0/40/0	005 40:57:44 DM D	F F					LICIAITZEL BAA

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26	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
t	rout stream buffer i	removes most of stand					

09/16/2025 12:57:16 PM - Page 6 of 5

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	vel 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		ite	General Comments						
1	4191 - Mixed Upla Co	and Decidu	ous with	Poletimbe	er Well	39.5	65	51-80	N/A	i.	2027 YOE: no change from below2017 YOE: mixed stand. large w pine 24" dbh +. R maple is low quality, stand interspersed with low
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	ground pockets holding tag alder and minor amounts of cedar. Hemloc groves scattered throughout, especially towards the N end of stand.
	Yellow Birch	20		9		Sug	ar Maple	Low	10 - 20 feet	10 - 20 feet	groves scattered throughout, especially towards the 14 end of stand.
	Red Maple	30		9	65	Wh	ite Pine	Low	< 5 feet	< 5 feet	
	Paper Birch	10	Seedling	8		Bal	sam Fir	High	10 - 20 feet	10 - 20 feet	*
	Balsam Fir	15	Sapling	6		Whit	e Spruce	High	10 - 20 feet	10 - 20 feet	
	White Pine	10		26		Не	emlock	Low	< 5 feet	< 5 feet	
	White Spruce	10	Sapling	6							-
2	4112 - Maple, Beec	ch, Cherry A	Association	Poletimbe	er Well	8.2	71	81-110	N/A		2017 YOE: scattered large hemlock 24" +. S end of stand heavier to h
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	maple saplings.
	Yellow Birch	10	Seedling	8		Sug	ar Maple	Medium	10 - 20 feet	10 - 20 feet	
	White Spruce	5		18						ı	1
	Hemlock	5		26							
	Sugar Maple	50	Seedling	8	71						
	Red Maple	30	Seedling	8							
2	6225	5 - Boa		Non	_	1.8			No		tag alder/hog along Shank Lake
3	6225 4110 - Sugar N	5 - Bog Maple Assoc	ciation	Non-		2.6	74	81-110	No N/A		tag alder/bog along Shank Lake 2027 YOE: little change from 2017. 2017 YOE: well formed h maple
	4110 - Sugar N	/laple Assoc		Poletimbe	er Well	2.6			N/A		2027 YOE: little change from 2017. 2017 YOE: well formed h maple poletimber and small sawtimber 6 - 12" dbh. widely scattered h maple
		/laple Assoc	ciation Size Class		er Well	2.6 Sub-Car	opy Species	81-110 Density Low			2027 YOE: little change from 2017. 2017 YOE: well formed h maple
	4110 - Sugar M	Maple Assoc		Poletimbe DBH	er Well	2.6 Sub-Car		Density	N/A Avg. Height	Size	2027 YOE: little change from 2017. 2017 YOE: well formed h maple poletimber and small sawtimber 6 - 12" dbh. widely scattered h maple
	4110 - Sugar M Canopy Species Yellow Birch	Maple Associ		Poletimbe DBH	er Well	2.6 Sub-Car	opy Species	Density	N/A Avg. Height	Size	2027 YOE: little change from 2017. 2017 YOE: well formed h maple poletimber and small sawtimber 6 - 12" dbh. widely scattered h maple
	4110 - Sugar M Canopy Species Yellow Birch Hemlock	Maple Associated Science 10 10		Poletimbe DBH	er Well	2.6 Sub-Car	opy Species	Density	N/A Avg. Height	Size	2027 YOE: little change from 2017. 2017 YOE: well formed h maple poletimber and small sawtimber 6 - 12" dbh. widely scattered h maple
	4110 - Sugar M Canopy Species Yellow Birch Hemlock Sugar Maple	Maple Associated Services (Maple Associated Services 10 80 5	Size Class Seedling	Poletimbe DBH 10 14 9	Age 74	2.6 Sub-Car	opy Species	Density	N/A Avg. Height	Size 5 - 10 feet	2027 YOE: little change from 2017. 2017 YOE: well formed h maple poletimber and small sawtimber 6 - 12" dbh. widely scattered h maple saplings. minor component of upland cedar. S end of stand is a narrow strip of high ground along Bone Lake. as
4	4110 - Sugar M Canopy Species Yellow Birch Hemlock Sugar Maple Red Maple	Maple Associated Spruce	Size Class Seedling	Poletimbe DBH 10 14 9 8	Age 74	2.6 Sub-Car Sug	ar Maple	Density Low	N/A Avg. Height 5 - 10 feet	Size 5 - 10 feet	2027 YOE: little change from 2017. 2017 YOE: well formed h maple poletimber and small sawtimber 6 - 12" dbh. widely scattered h maple saplings. minor component of upland cedar. S end of stand is a narrow strip of high ground along Bone Lake, as stand progresses N, it transitions to lowland conifer with scattered high
4	4110 - Sugar M Canopy Species Yellow Birch Hemlock Sugar Maple Red Maple	Maple Associated Spruce	Size Class Seedling	Poletimbe DBH 10 14 9 8	Age 74	2.6 Sub-Car Sug. 4.7 Sub-Car	ar Maple 40	Density Low 51-80	N/A Avg. Height 5 - 10 feet	Size 5 - 10 feet	2027 YOE: little change from 2017. 2017 YOE: well formed h maple poletimber and small sawtimber 6 - 12" dbh. widely scattered h maple saplings. minor component of upland cedar. S end of stand is a narrow strip of high ground along Bone Lake. as
4	4110 - Sugar M Canopy Species Yellow Birch Hemlock Sugar Maple Red Maple 6124 - Lowla	Maple Assoc **Cover 5 10 80 5 and Spruce **Cover **	Size Class Seedling -Fir Size Class	Poletimbee DBH 10 14 9 8 Poletimbee	Age 74 Age Age	2.6 Sub-Car Sug. 4.7 Sub-Car	ar Maple 40 aopy Species	Density Low 51-80 Density	N/A Avg. Height 5 - 10 feet N/A Avg. Height	Size 5 - 10 feet Size	2027 YOE: little change from 2017. 2017 YOE: well formed h maple poletimber and small sawtimber 6 - 12" dbh. widely scattered h maple saplings. minor component of upland cedar. S end of stand is a narrow strip of high ground along Bone Lake, as stand progresses N, it transitions to lowland conifer with scattered high
5	4110 - Sugar M Canopy Species Yellow Birch Hemlock Sugar Maple Red Maple 6124 - Lowla Canopy Species Balsam Fir	Maple Associated Services Maple Associated	Size Class Seedling -Fir Size Class Seedling	Poletimbee DBH 10 14 9 8 Poletimbee DBH 7	Age 74 Age Age	2.6 Sub-Car Sug. 4.7 Sub-Car	Apple 40 Apple Species Apple 40 Apple Species Sam Fir	Density Low 51-80 Density Full	N/A Avg. Height 5 - 10 feet N/A Avg. Height 10 - 20 feet	Size 5 - 10 feet Size 10 - 20 feet	2027 YOE: little change from 2017. 2017 YOE: well formed h maple poletimber and small sawtimber 6 - 12" dbh. widely scattered h maple saplings. minor component of upland cedar. S end of stand is a narrow strip of high ground along Bone Lake, as stand progresses N, it transitions to lowland conifer with scattered high
5	4110 - Sugar M Canopy Species Yellow Birch Hemlock Sugar Maple Red Maple 6124 - Lowle Canopy Species Balsam Fir Black Spruce	Maple Associated Spruce Maple Associated Spru	Size Class Seedling -Fir Size Class Seedling	Poletimbe DBH 10 14 9 8 Poletimbe DBH 7 7	Age 74 Age Age	2.6 Sub-Car Sug. 4.7 Sub-Car	Apple 40 Apple Species Apple 40 Apple Species Sam Fir	Density Low 51-80 Density Full	N/A Avg. Height 5 - 10 feet N/A Avg. Height 10 - 20 feet	Size 5 - 10 feet Size 10 - 20 feet	2027 YOE: little change from 2017. 2017 YOE: well formed h maple poletimber and small sawtimber 6 - 12" dbh. widely scattered h maple saplings. minor component of upland cedar. S end of stand is a narrow strip of high ground along Bone Lake, as stand progresses N, it transitions to lowland conifer with scattered high
5	4110 - Sugar M Canopy Species Yellow Birch Hemlock Sugar Maple Red Maple 6124 - Lowle Canopy Species Balsam Fir Black Spruce orthern White Cedar	Maple Associated Spruce Maple Associated Spru	Size Class Seedling -Fir Size Class Seedling Seedling	Poletimbe DBH 10 14 9 8 Poletimbe DBH 7 7 14	74 Per Well Age 40	2.6 Sub-Car Sug. 4.7 Sub-Car	40 nopy Species sam Fir Alder	Density Low 51-80 Density Full	N/A Avg. Height 5 - 10 feet N/A Avg. Height 10 - 20 feet	Size 5 - 10 feet Size 10 - 20 feet 5 - 10 feet	2027 YOE: little change from 2017. 2017 YOE: well formed h maple poletimber and small sawtimber 6 - 12" dbh. widely scattered h maple saplings. minor component of upland cedar. S end of stand is a narrow strip of high ground along Bone Lake, as stand progresses N, it transitions to lowland conifer with scattered high ground knolls multiple springs and drainages in the lake. 2027 YOE: little change from 20172017 YOE: very scattered upland
5	4110 - Sugar M Canopy Species Yellow Birch Hemlock Sugar Maple Red Maple 6124 - Lowle Canopy Species Balsam Fir Black Spruce orthern White Cedar Yellow Birch	Maple Associated Assoc	Size Class Seedling -Fir Size Class Seedling Seedling	Poletimbe DBH 10 14 9 8 Poletimbe DBH 7 7 14 9	74 Per Well Age 40 Age 40	2.6 Sub-Car Sug. 4.7 Sub-Car Bal	40 nopy Species sam Fir Alder	Density 51-80 Density Full Medium	N/A Avg. Height 5 - 10 feet N/A Avg. Height 10 - 20 feet 5 - 10 feet	Size 5 - 10 feet Size 10 - 20 feet 5 - 10 feet	2027 YOE: little change from 2017. 2017 YOE: well formed h maple poletimber and small sawtimber 6 - 12" dbh. widely scattered h maple saplings. minor component of upland cedar. S end of stand is a narrow strip of high ground along Bone Lake. as stand progresses N, it transitions to lowland conifer with scattered high ground knolls multiple springs and drainages in the lake.
5	4110 - Sugar M Canopy Species Yellow Birch Hemlock Sugar Maple Red Maple 6124 - Lowla Canopy Species Balsam Fir Black Spruce orthern White Cedar Yellow Birch	Maple Associated Assoc	Size Class Seedling -Fir Size Class Seedling Seedling	Poletimbee DBH 10 14 9 8 Poletimbee DBH 7 7 7 14 9 Poletimbee	74 Per Well Age 40 Age 40	2.6 Sub-Car Sug- 4.7 Sub-Car Bal	40 Apple Species sam Fir Alder	Density Low 51-80 Density Full Medium	N/A Avg. Height 5 - 10 feet N/A Avg. Height 10 - 20 feet 5 - 10 feet	Size 5 - 10 feet Size 10 - 20 feet 5 - 10 feet	2027 YOE: little change from 2017. 2017 YOE: well formed h maple poletimber and small sawtimber 6 - 12" dbh. widely scattered h maple saplings. minor component of upland cedar. S end of stand is a narrow strip of high ground along Bone Lake, as stand progresses N, it transitions to lowland conifer with scattered high ground knolls multiple springs and drainages in the lake. 2027 YOE: little change from 20172017 YOE: very scattered upland
5	4110 - Sugar M Canopy Species Yellow Birch Hemlock Sugar Maple Red Maple 6124 - Lowla Canopy Species Balsam Fir Black Spruce orthern White Cedar Yellow Birch 4110 - Sugar M Canopy Species	Maple Associated Assoc	Size Class Seedling -Fir Size Class Seedling Seedling	Poletimbee DBH 10 14 9 8 Poletimbee DBH 7 7 14 9 Poletimbee DBH	74 Per Well Age 40 Age 40	2.6 Sub-Car Sug- 4.7 Sub-Car Bal	40 sopy Species sam Fir Alder 71 sopy Species	Density Low 51-80 Density Full Medium 111-140 Density	N/A Avg. Height 5 - 10 feet N/A Avg. Height 10 - 20 feet 5 - 10 feet N/A Avg. Height	Size 5 - 10 feet Size 10 - 20 feet 5 - 10 feet	2027 YOE: little change from 2017. 2017 YOE: well formed h maple poletimber and small sawtimber 6 - 12" dbh. widely scattered h maple saplings. minor component of upland cedar. S end of stand is a narrow strip of high ground along Bone Lake, as stand progresses N, it transitions to lowland conifer with scattered high ground knolls multiple springs and drainages in the lake. 2027 YOE: little change from 20172017 YOE: very scattered upland

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Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age E	A Range	Managed S	Site	General Comments
7	6120 - Lov	wland Ceda	r S	awtimber	Medium	7.7	115 U	Inspecified	N/A	A	interspersed open tag alder areas within the stand. no current
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	evidence of wintering deer.
	Tamarack	5	Seedling	8		Ta	ag Alder	Full	5 - 10 feet	5 - 10 feet	
	Black Spruce	10	Seedling	7		Ва	alsam Fir	Medium	10 - 20 feet	10 - 20 feet	
No	rthern White Cedar	85		14	115						
8	6225	5 - Bog		Nor	ne	54.3			No)	floating leatherleaf bog adjacent to Bone Lake. scattered, stunted b spruce
9	4112 - Maple, Beed	h, Cherry A	ssociation	Poletimb	er Well	14.0	71	81-110	N/A	4	2027 YOE: little change from 20172017 YOE: very N edge of stand
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	has transitional conifers - spruce/fir 4-8" dbh.
	Yellow Birch	3	Seedling	7		Yel	low Birch	Low	>20 feet	>20 feet	
	Sugar Maple	30		8	71	Bla	ck Cherry	Medium	>20 feet	>20 feet	
	Red Maple	55		9	71	Suç	gar Maple	Medium	>20 feet	>20 feet	
No	rthern White Cedar	2		14		Re	ed Maple	Medium	>20 feet	>20 feet	
	Black Cherry	10		10							_
10	4134 - Aspe	en, Spruce/	Fir	Sapling	Well	17.7	27	Immature	N/A	4	very dense fir sapling/small poletimber mixed with aspen. fir
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	regeneration is so thick, anticipate growth stunting common to this general area. r pine scattered throughout, very widely scattered w birch.
	Red Pine	5		12		Ва	alsam Fir	Full	10 - 20 feet	10 - 20 feet	gonoral area. I pine ecatorea aneagnea. Very maery ecatorea in biren.
	Balsam Fir	25	Pole	4		Wh	ite Spruce	Full	10 - 20 feet	10 - 20 feet	
	White Spruce	10	Pole	4							-
	Quaking Aspen	60	Pole	4	27						
11	4319 - Mixed	Upland Fo	rest	Poletimb	er Well	53.9	60	81-110	N/A	4	large amount of vernal areas mixed throughout this stand with tag alder
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	and b ash - very wet. N end of stand transitions to heavier stocking of fi saplings and poletimber 4 - 6" dbh. small r maple M6 inclusion in W
	Balsam Fir	35	Seedling	7		Ва	alsam Fir	High	10 - 20 feet	10 - 20 feet	center of stand.
	White Spruce	10		12	55	Hazelı	nut (Beaked)	Low	5 - 10 feet	5 - 10 feet	
	Red Maple	10		9							-
	Paper Birch	5	Seedling	6							
	Quaking Aspen	40	Seedling	8	60						
12	4319 - Mixed	Upland Fo	rest	Poletimb	er Well	9.5	50	81-110	N/A	4	2027 YOE: per below2017 YOE: aspen 7 - 10" dbh with scattered
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	12" trees. associated r maple low quality. scattered 8" dbh fir. small M6 inclusion in center of stand
	Red Maple	15		11		Ва	alsam Fir	Full	10 - 20 feet	10 - 20 feet	
	Balsam Fir	55	Sapling	6	50	Honey	suckle (spp.)	Low	< 5 feet	< 5 feet	
No	rthern White Cedar	2		14							_
	Yellow Birch	3		8							
	Quaking Aspen	25		9							

Report 7 - Stands



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
13	4112 - Maple, Beec	ch, Cherry A	Association	Poletimb	er Well	30.1	72	81-110	N/A	A	good h maple regen. scattered rock knobs
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Black Cherry	3		9		Iro	onwood	Medium	10 - 20 feet	10 - 20 feet	
	Sugar Maple	50		9	72	Honey	suckle (spp.)	Low	< 5 feet	< 5 feet	
	Red Maple	45	Seedling	8		Sug	jar Maple	High	10 - 20 feet	10 - 20 feet	
	Yellow Birch	2		10							
14	42210 - Nat	tural Red P	ine P	oletimbe	Medium	n 7.4	58	81-110	N/A	4	Deer Lake campground. good aspen sapling understory from previous
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	cut. well formed r pine. associated w birch/r maple
	White Spruce	5	Sapling	6		Quak	king Aspen	High	10 - 20 feet	10 - 20 feet	
	Red Pine	60		9	58			,			-
	White Pine	5		20							
	Red Maple	10	Seedling	7							
	Paper Birch	20	Seedling	8							
15	4319 - Mixed	Upland Fo	orest	Poletimb	er Well	93.0	50	81-110	N/A	4	2027 YOE: Aspen very poor quality, 7" dbh with scattered 10" diamete
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	scattered low ground inclusions. SBW flagging on w spruce. 2017
	White Pine	5		12		Ва	lsam Fir	Full	10 - 20 feet	10 - 20 feet	YOE: aspen 4 - 7' dbh with scattered 8" trees. very dense fir
	Black Spruce	15	Sapling	6		R	ed Pine	Low	10 - 20 feet	10 - 20 feet	saplings/small poletimber. midway along E side, inclusion with higher stocking of upland b spruce saplings/small poletimber. SBW damage
	Red Pine	5	Seedling	8							tips. sand ground aspen - more suited towards pine.
	Balsam Fir	20	Sapling	6							
	Quaking Aspen	55	Seedling	7	50						
16	3105 - Mixed Սլ	pland Herba	aceous	Noi	ne	5.5			Ye	S	old hunter walking trail - edges in places growing into fir, spruce and w pine. has a berm out at Deer Lk Rd - illegal 4 wheelers use driving overgularly.
17	4134 - Aspe	en, Spruce/	/Fir	Sapling	Well	18.9	26	Immature	N/A	4	2027 YOE: scattered aspen just moving into small poletimber size class
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	A3A42017 YOE: good mix of aspen and conifer. spruce/fir pockets of poletimber 6 - 8" dbh
	Black Cherry	5	Log	2		Hazelr	nut (Beaked)	High	5 - 10 feet	5 - 10 feet	
	White Spruce	15	Sapling	5							_
	Balsam Fir	20	Sapling	5							
	Quaking Aspen	60	Pole	4	26						
18	6124 - Lowla	and Spruce	-Fir P	oletimbe	Medium	n 21.1	72 L	Jnspecified	N/A	Ą	very scattered aspen - cut off from past beaver activity. lowlands
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	adjacent to the Deer River with more upland in E part of stand
	Balsam Fir	40	Seedling	7	72	Ва	lsam Fir	High	10 - 20 feet	10 - 20 feet	
	White Pine	5		14		Blac	ck Spruce	Medium	10 - 20 feet	10 - 20 feet	
	White Spruce	15		9		Hazelr	nut (Beaked)	Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	40	Seedling	7	72			'			-
19	500 -	- Water		Noi	ne	8.5			No)	Deer River slough as river comes out of Deer Lk.



Stanc	Level 4 C	over Type	ver Type		Size Density		Stand Age	BA Range	Managed S	Site	General Comments
20	622	6225 - Bog			ne 32.				No		Deer River with open bog - leatherleaf with areas heavier to tag alder/willow. scattered stunted b spruce.
21	4134 - Asp	en, Spruce/	Fir	Sapling	Well	107.6	5	Immature	N/A		cut in 2019. aspen saplings with pockets of spr/fir. scattered cherry, and
	Canopy Species	% Cover	Size Class	DBH	Age						pine
	White Pine	5		20							
	Quaking Aspen	60	Log	1	5						
	White Spruce	10	Log	4							
	Balsam Fir	20	Log	3							
	Paper Birch	5	Seedling	8							
22	4119 - Mixed No	orthern Hard	lwoods	Poletimb	er Well	10.8	65	51-80	N/A	4	2027 YOE: rock ledge on N end. thick fir understory2017 YOE: very
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	dense spruce/fir
	Balsam Fir	10	Sapling	6		Whi	te Spruce	Full	10 - 20 feet	10 - 20 feet	
	Sugar Maple	20		12		Ва	lsam Fir	Full	10 - 20 feet	10 - 20 feet	
	Red Maple	50		10	65	Re	d Maple	Medium	10 - 20 feet	10 - 20 feet	
	Paper Birch	10		10							_
	Yellow Birch	5		11							
	Quaking Aspen	5		14							
23	42320 - U	pland Spruce		Poletimber Well		11.8	55	Unspecified	N/A	4	2027 YOE: dense upland b spruce on sandy soils. scattered upland
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	tamarack. N end has small low ground inclusion leading into Deer Rive flowage, stand is transitional area to Deer River riparian, likely in the
	Quaking Aspen	10	Seedling	7	50	Ва	Isam Fir	Full	10 - 20 feet	10 - 20 feet	past, aspen was cut out by beaver leaving conifer to become
	Black Spruce	60	Sapling	5	55	R	ed Pine	Low	10 - 20 feet	10 - 20 feet	dominate.
	White Pine	5		12							
	Balsam Fir	20	Sapling	5							
	Tamarack	5	Sapling	6							
24	4134 - Asp	en, Spruce/	Fir	Sapling	Well	24.1	25	Immature	N/A		2027 YOE: scattered aspen just moving into small poletimber size class
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	A3A4F3. associated red maple saplings. 2017 YOE: Aspen saplings with pockets of fir. W. edge heavier to spruce/fir. small pockets of tag
	Balsam Fir	40	Pole	3		Ва	lsam Fir	High	10 - 20 feet	10 - 20 feet	alder with rock knobs throughout.
	Quaking Aspen	50	Pole	3	25						
	Red Maple	10	Log	2							
25	4134 - Asp	en, Spruce/	Fir	Sapling	Well	12.6	30	81-110	N/A	4	2027 YOE: Mix of aspen, r maple. component of spruce/fir.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	UM5A4A3
	Balsam Fir	10	Sapling	5			lsam Fir	High	10 - 20 feet	10 - 20 feet	
	Quaking Aspen	40	Pole	4	30	Hazeln	ut (American)	Medium	5 - 10 feet	5 - 10 feet	
	Red Maple	40	Pole	4	30						
	White Spruce	10	Pole	4							
27				Nor	ie	5.0			No)	tag alder/willow into bog drainage. N end has small patch of cedar, tamarack, b ash.

Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments		
28	42340 - Upl	and Spruce	/Fir	Poletimber Well		7.0 40 Unspecifie		Unspecified	N/A	4	upland b spruce and fir throughout with pockets of dense spruce/fir.		
	Canopy Species	% Cover	Size Class	DBH	Age	ge Sub-Ca	nopy Specie	ies Density	Avg. Height	Size	Aspen 1 - 4" dbh with scattered trees moving into 1 stick class. Stand of very low quality for aspen forest type - 24 years old with an average		
	Balsam Fir	50	Sapling	5	40	Hazelr	nut (Beaked)	Medium	5 - 10 feet	5 - 10 feet	dbh of 2".		
	Black Spruce	40	Sapling	5		Ва	ılsam Fir	Medium	5 - 10 feet	5 - 10 feet			
	Quaking Aspen	10	Pole	2	36								
29	4134 - Asp	en, Spruce/	Fir	Poletimber Well		62.0	47	81-110	N/A	4	w spruce is about 100% mortality from SBW. around all edges of the		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	stand higher stocked to spruce/fir are about completely dead. SW side of the stand transitions to upland b spruce/fir inclusion. upland b spruce		
	Balsam Fir	15	Sapling	5		Ва	ılsam Fir	High	>20 feet	>20 feet	is unaffected by SBW. overall the stand has approx 80% mortality on w		
	Paper Birch	5	Seedling	8	_			·			spruce/fir.		
	Quaking Aspen	60		9	47								
	White Pine	5		30									
	Black Cherry	5	Sapling	6									
	Black Spruce	10	Seedling	7									
30	4110 - Sugar N	ciation	Sapling	Well	17.3	25	Immature	N/A	4	2027 YOE: little change from 2017 YOE. very good h maple applings2017 YOE: very W edge has M9 with h maple and b cherry			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	regen as stand transitions to more open sapling stand. Aspen/w spruce		
	White Spruce	2	Seedling	8		Hazelr	nut (Beaked)	High	< 5 feet	< 5 feet	overstory has completely fallen out. Fantastic h maple sapling reger		
	White Pine	2		16							scattered stems nearing 1 stick poletimber		
	Black Cherry	5	Log	2									
	Sugar Maple	80	Log	3	25								
	Sugar Maple	8		14									
	Red Maple	3	Log	3									
31	6224 - '	Treed Bog		Nor	ne	126.9			No)	large bog complex with multiple drainages and old beaver meadows. flooded in many areas. scattered pockets of b spruce and tamarack. associated tag alder		
32		wland Ceda		oletimber			105	Unspecified	N/A		small pockets of b spruce scattered throughout. stand mainly consists of cedar with interspersed open areas having tag alder		
	Canopy Species	% Cover			Age		nopy Specie		Avg. Height	Size	Todal Will Interspersed open areas having tag alder		
	Tamarack	10	Seedling	6			alsam Fir	Medium	10 - 20 feet	10 - 20 feet			
	Black Spruce	25	Seedling	6		Ta	ag Alder	High	5 - 10 feet	5 - 10 feet			
No	orthern White Cedar	65		10	105								
33	6122 - B	Black Spruce		Poletimber Well		22.8	70	Unspecified	N/A	4	good typical b spruce swamp - high stocking quickly transitions to lower quality bog soils. small amounts of cedar in the SW. small inclusion of		
	Canopy Species		Size Class		Age		nopy Specie		Avg. Height	Size	purer tamarack 4 - 7" dbh in S end		
	Tamarack	5	Sapling	5	70	Ва	ılsam Fir	Low	5 - 10 feet	5 - 10 feet			
	Black Spruce	93	Seedling	6	70								
No	orthern White Cedar	2		12									



Stand	Level 4 Cover Type			Size Density		Acres	Stand Age BA Range		Managed S	ite	General Comments
34	6129 - Mixed Conif	erous Lowla	and Forest	Poletimb	er Well	17.3	62	81-110	N/A	\	mixed lowland conifer, drainage between bogs/Square Lake
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Black Spruce	30	Seedling	6		Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
No	rthern White Cedar	30		10							
	Tamarack	40	Seedling	7	62						
35	4319 - Mixed			Poletimb	er Well	136.1	46	81-110	N/A	1	2027 YOE: aspen appears to be growing extremely slow. w spruce/fir have been impacted by previous SBW, much of w spruce has died,
	Canopy Species	% Cover	Size Class	DBF	l Age		nopy Species		Avg. Height	Size	upland b spruce was unaffected.2017 YOE: stand cut in 1979 -
	Balsam Fir	30	Seedling				te Spruce	Full	10 - 20 feet	10 - 20 feet	extremely dense spruce/fir sapling understory - too dense. Aspen is 3 -
	White Spruce	20	Seedling			Ва	lsam Fir	Full	10 - 20 feet	10 - 20 feet	8" dbh with scattered 10 - 12" trees. areas purer to spruce/fir poletimber throughout. SBW affected stand summer 2014.
	Quaking Aspen	50	Seedling	7	46						throughout. Obvv ancoted stand summer 2014.
36	6225	5 - Bog		Noi	ne	20.1			No	1	open leatherleaf bog with stunted b spruce saplings
37	4212 - Plan	ted Jack Pi	ine	Unspe	cifed	195.3	1				2027 YOE: stand is open with small submerch upland b spruce/fir scattered. resprayed in 2024, to be replanted with j pine in 20252017 YOE: off site, sand ground aspen. Aspen very low quality, roughly 1 -3 sticks tall. open grown w spruce with upland b spruce and j pine. NW end heavier to upland b spruce, w spruce and j pine. Nice j pine along NE end 4 - 5 sticks tall. stand is semi open.
38	6122 - BI	ack Spruce	F	Poletimbe	Medium	n 17.1	60		N/A	١	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	spruce, tamarack poletimber with tag alder thickets. small islands of aspen. N and E end transition towards the adjacent bog - trees are
	Tamarack	20	Seedling	6		Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	stunted and smaller diameter.
	Black Spruce	70	Sapling	6	60					1	1
No	orthern White Cedar	10		10							
39	4134 - Asp	en, Spruce/	Fir	Poletimb	er Well	18.5	38 L	Jnspecified	N/A	Λ	very dense spruce/fir. N end of stand has small pockets, aspen 7-9" dbh
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Balsam Fir	15	Pole	4		Ва	lsam Fir	Full	5 - 10 feet	5 - 10 feet	
	White Spruce	5	Pole	4							•
	Quaking Aspen	80	Seedling	6	38						
40	500 -	- Water		Noi	ne	9.3			No		Square Lake
41	6224 - ⁻	Freed Bog		Noi	ne	22.8			No		open marsh/bog. leatherleaf and swamp grass. creek drainage throughout stand with old beaver meadows
42	4134 - Asp	en, Spruce/	Fir	Sapling	y Well	15.8	6	Immature	N/A	1	2027 YOE: per below2017 YOE: small pockets of submerch conifer with young aspen saplings
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	wiii young aspen sapiings
	Quaking Aspen	65	Log	1	6	Whi	te Spruce	Low	10 - 20 feet	10 - 20 feet	
	Balsam Fir	30	Log	1		Ва	Isam Fir	Low	10 - 20 feet	10 - 20 feet	
				12							1



Stand	Level 4 C	Level 4 Cover Type			Acres	Stand Age E	A Range	Managed S	ite	General Comments			
43	6139 - Mixed Lowland Forest		orest F	Poletimber Medium	11.4	40	51-80	N/A		2027 YOE: semi upland to lowland, wetter site. scattered aspen 10-11:			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Can	opy Species	Density	Avg. Height	Size	lowland black spruce inclusion. stand is not conducive to managemer			
	White Pine	5		20	Bals	sam Fir	Medium	10 - 20 feet	10 - 20 feet	due to wet ground. has been reserved in the past for diversity also.			
	Red Maple	40	Seedling	7 40									
	Balsam Fir	5	Sapling	6									
	Black Spruce	40	Seedling	6 40									
	Yellow Birch	5		9									
	Quaking Aspen	5		12									
44	4119 - Mixed N	orthern Hard	dwoods	Sapling Medium	5.6	35	1-50	N/A		2027 YOE: slight increase in diameter from 2017. very scattered aspen			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Can	opy Species	Density	Avg. Height	Size	moving into small poletimber class2017 YOE: area clearcut in past. good h maple regen from seed source and stump sprouts. beaver had			
	Black Cherry	5	Log	2	Hazelnut	(American)	High	5 - 10 feet	5 - 10 feet	cut off aspen regeneration adjacent to lowlands			
	Balsam Fir	5	Log	2									
	Sugar Maple	60	Log	2 35									
	Paper Birch	20	Log	2									
	Quaking Aspen	10	Log	3									
45	310 - Herbad	ceous Open	lland	None	17.4			No		open field with aspen pockets and hazel. spruce saplings encroaching. bracken, grass and sweet fern. old, constructed wildlife openings that were once maintained.			
46		4191 - Mixed Upland Deciduous with Conifer		Poletimber Poor	15.0	56	51-80	N/A		lowlands/floodplain adjacent to Deer River. swamp grass, tag alder. adjacent uplands to the E has spruce/fir/aspen.winter deer use.			
	Canopy Species	% Cover	Size Class	DBH Age									
	Balsam Fir	30	Sapling	7									
	Red Maple	40		8 56									
	Quaking Aspen	30		9									
47	42340 - Upl	and Spruce	e/Fir F	Poletimber Medium	9.2	30 U	nspecified	N/A		2027 YOE: high mortality on w spruce/fir from prior SBW. 2017 TYOE: edges towards river transition to lowland conifers and tag alder.			
	Canopy Species	% Cover	Size Class		Sub-Can	opy Species	Density	Avg. Height	Size	mainly a spruce/fir stand. S 1/4 was cut with comp 119 in the past.			
	Balsam Fir	35	Sapling	5 20	Quaki	ng Aspen	Medium	5 - 10 feet	5 - 10 feet				
	Quaking Aspen	20	Seedling	6									
	White Spruce	5	Sapling	5									
	Black Spruce	40	Pole	4 30									
48	42320 - Upland Spruce Po			Poletimber Well	5.3 64 U		Inspecified	N/A		upland b spruce poletimber 4 - 5 sticks tall. scattered areas of windthrow, stand is a transition to treed bog			
	Canopy Species		Size Class			opy Species	Density	Avg. Height	Size	Trinda i o it did i did			
	Balsam Fir	5	Pole	4		sam Fir	Medium	5 - 10 feet	5 - 10 feet				
	Black Spruce	90	Sapling	7 64	Black	Spruce	High	< 5 feet	< 5 feet				
	Quaking Aspen	5	Seedling	6									



Stand	Level 4 Cover Type			Size Density	Acres	Stand Age	BA Range	Managed Si	te	General Comments
49	42320 - Սբ	42320 - Upland Spruce Po			n 6.8	59	Unspecified	N/A		2027 YOE: little change from 2017 YOE. stand is fairly stagnate, transition to lowlands. fairly high mortality on fir from prior SBW2017
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	YOE: thick spruce/fir in E "peninsula" with scattered w pine 8 - 14" dbh.
	Balsam Fir	10	Pole	4	Ва	lsam Fir	Full	5 - 10 feet	5 - 10 feet	some old windthrow pockets from 2005. small inclusions of lowland b
	White Pine	5		12						spruce 6 - 8" dbh with tag alder/sphagnum. transition area from lowland
	Black Cherry	10	Seedling	7						to upland.
	Black Spruce	75	Sapling	6 59						
50	4134 - Aspe	4134 - Aspen, Spruce/Fir		Sapling Well	15.1	6	Immature	N/A		2027 YOE: good aspen regen with spruce/fir pockets2017 YOE: w
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	pine dispersed throughout - likely was once a w pine stand. very small component of w birch poletimber 6 - 8"dbh. aspen sprouting
	Balsam Fir	15	Log	1	Ва	lsam Fir	Medium	10 - 20 feet	10 - 20 feet	
	Black Spruce	10	Log	1	Blac	k Spruce	Medium	10 - 20 feet	10 - 20 feet	
	Quaking Aspen	70	Log	1 6						-
	White Pine	5		14						
51	6224 - 1	reed Bog		None	26.0			No		open marsh/bog. leatherleaf with stunted tamarack and b spruce
52	4319 - Mixed	Upland Fo	rest	Sapling Well	29.0	25	Immature	N/A		2027 YOE: Little change from 2017. very highly stocked fir, some
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	mpacted from prior years SBW2017 YOE: A3 1 - 2" dbh with high percentage of fir saplings. good aspen regeneration. buffer was left
	Balsam Fir	45	Pole	2	Ва	lsam Fir	Low	< 5 feet	< 5 feet	along NW edge to open bog - b spruce, aspen poletimber with small
	Quaking Aspen	55	Log	2 25	Hazeln	ut (Beaked)	Medium	< 5 feet	< 5 feet	bog inclusion.
53	4319 - Mixed	Upland Forest Po		oletimber Mediun	m 10.1 45		81-110	N/A		2027 YOE: SBW has removed mature white spruce from the stand. fir
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	was impacted also. dense fir and black spruce understory.2017 YOE: Aspen 4 - 5 sticks tall. fir saplings showing SBW on tops.
	Quaking Aspen	55	Seedling	7 45	Ва	lsam Fir	Full	>20 feet	>20 feet	scattered w pine and r pine throughout. very dense fir understory.
	Balsam Fir	40	Sapling	5						•
	White Pine	5		14						
54	4130	- Aspen		Sapling Well	13.4	19	Immature	N/A		
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Balsam Fir	5	Log	3	Hazeln	ut (Beaked)	High	< 5 feet	< 5 feet	
	Quaking Aspen	85	Log	2 19						
	White Pine	10		22						
55	6224 - 1	reed Bog		None	2.3			No		small leatherleaf bog with scattered b spruce
56	6225	5 - Bog		None	18.1			No		leatherleaf bog with scattered b spruce - very wet
57	4130	- Aspen		Sapling Well	28.0	19	Immature	N/A		2017 YOE: almost pure aspen stand. old (2005) windthrow at edges.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stand cut in 2006 due to heavy windthrow in 2005
	Balsam Fir	5	Log	2	Hazeln	ut (Beaked)	Medium	< 5 feet	< 5 feet	
	Quaking Aspen	95	Log	2 19			'	1		•



Stand	Level 4 Co	Level 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		ite	General Comments					
58	6224 - T	reed Bog		None	2.5			No		stunted b spruce saplings 2 - 3" dbh in wet leatherleaf bog
59	6120 - Low	land Ceda	r	Poletimber Well	26.2 120 U		Unspecified	N/A		NE portion of stand has S6 poletimber 5 - 7" dbh. remainder of stand is
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	cedar with tag alder and interspersed openings.very good potential winter deer usage
	Tamarack	10	Seedling	8	Ва	ılsam Fir	High	5 - 10 feet	5 - 10 feet	
	Black Spruce	30	Seedling	6 82	Ta	ag Alder	Full	5 - 10 feet	5 - 10 feet	
No	orthern White Cedar	60		12 120						
60	4134 - Aspen, Spruce/Fir			Sapling Well	35.9	26	Immature	N/A	1	2027 YOE: scattered aspen just moving into small poletimber size class.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	A3A42017 YOE: scattered spruce/fir throughout. tag alder in low areas.
	Balsam Fir	10	Log	3	Ta	ag Alder	Low	10 - 20 feet	10 - 20 feet	
	White Spruce	10	Log	3	Hazelr	nut (Beaked)	Medium	< 5 feet	< 5 feet	
	Black Cherry	20	Log	2						
	Quaking Aspen	60	Pole	3 26						
61	4110 - Sugar M	aple Assoc	iation	Poletimber Well	7.9	74	81-110	N/A		2027 YOE: per below2017 YOE: pockets of very good H maple
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	sapling regen 5 - 10' tall. scattered log sized h maple - defect prevalent. widely scattered upland cedar and w pine. very SW corner
	Yellow Birch	10		9	Blad	ck Cherry	High	5 - 10 feet	5 - 10 feet	of stand has small aspen inclusion 3 - 4" dbh trees.
No	orthern White Cedar	5		12	Sug	gar Maple	High	5 - 10 feet	5 - 10 feet	
	Sugar Maple	85	Seedling	9 74						-
62	4130 -	- Aspen P		Poletimber Medium		m 8.1 26 Unspecified		N/A		2027 YOE: Aspen just moving into small poletimber size class.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species		Density	Avg. Height	Size	A5A32017 YOE: Aspen 2 - 3" dbh. scattered clumps and single trees of fir throughout. tag alder along edges and in scattered low areas
	Black Cherry	20	Log	2	Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet	within stand.
	Balsam Fir	10	Sapling	6	Hazelr	nut (Beaked)	Medium	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	70	Pole	4 26						
63	6220 - Ald	der/Willow		None	25.3			No		tag alder with associated b spruce and fir poletimber. slight b ash component. multiple drainages throughout. SW finger of stand has higher stocking of cedar and b ash.
64	4130 -	Aspen		Sapling Well	15.2	26	Immature	N/A	ı	2027 YOE: scattered aspen just moving into poletimber size class.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	A3A42017 YOE: small rock outcrops throughout. tag alder areas at bases and below outcrops. small fir dispersed throughout stand.
	Black Cherry	20	Log	2	Ва	ılsam Fir	Low	5 - 10 feet	5 - 10 feet	and and another officer and the dependent and angles and another and
	Balsam Fir	5	Pole	4	Hazelr	nut (Beaked)	Full	< 5 feet	< 5 feet	
	Quaking Aspen	75	Pole	3 26						
66	6220 - Ald	der/Willow		None	11.4			No		old beaver pond overgrown with tag alder



Stand	d Level 4 Co	over Type		Size Density	Acres	Stand Age E	BA Range	Managed S	ite	General Comments			
69	4130 - Aspen			Poletimber Well	3.8	44 L	Inspecified	N/A		2027 YOE: aspen 3- 7" dbh. scattered 7 -8" diameter trees2017 7 YOE: very small amount of 1 stick aspen throughout. more conifer			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	along E edge			
	Balsam Fir	5	Sapling	5	Hazeln	ut (Beaked)	Low	< 5 feet	< 5 feet				
	Quaking Aspen	70	Sapling	6 44									
	Red Maple	15	Log	2									
	Paper Birch	10	Pole	4									
71	4319 - Mixed	Upland Fo	rest	Poletimber Well	56.2	34	51-80	N/A		2027 YOE: low quality aspen, very heavily stocked spruce/fir2017			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Cai	nopy Species	Density	Avg. Height	Size	YOE: aspen saplings 16-20' tall. very high stocking of associated spruce/fir			
	Balsam Fir	25	Sapling	5	Ba	lsam Fir	Full	10 - 20 feet	10 - 20 feet				
	Black Spruce	20	Sapling	5	Blac	k Spruce	Full	10 - 20 feet	10 - 20 feet				
	Quaking Aspen	55	Sapling	6 34	Hazeln	ut (Beaked)	Low	5 - 10 feet	5 - 10 feet				
72	4119 - Mixed No	rthern Hard	lwoods	Sawtimber Well	22.9	73	81-110	N/A		2027 YOE: heavy ironwood/h maple saplings. scattered upland cedar.			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Lower stocking in N end of stand. 2017 YOE: fair to poor sawtimb formation. dense H maple regen in pockets. Areas of rock ledge			
	Basswood	5		9	Ba	lsam Fir	Medium	10 - 20 feet	10 - 20 feet	incidence of windthrow. scattered upland cedar and hemlock. NW corner of stand has hemlock, cedar, mix softwood inclusion in wet drainage. N end of stand has lower BA with scattered pockets of asp saplings 16-20' tall			
	Yellow Birch	10		10	Sug	ar Maple	High	5 - 10 feet	5 - 10 feet				
	Sugar Maple	60		12 73	Whit	te Spruce	Low	5 - 10 feet	5 - 10 feet				
	Red Maple	15		10	Irc	nwood	High	5 - 10 feet	5 - 10 feet	sapings 10-20 tall			
No	orthern White Cedar	5		14						1			
	Hemlock	5		18									
73	42320 - Սբ	Upland Spruce		Poletimber Medium		n 12.0 45 Uı		N/A		2027 YOE: aspen from prior harvest has mainly been cut out by beaver.			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Cai	nopy Species	Density	Avg. Height	Size	upland b spruce with scattered small semi open areas.			
	Balsam Fir	15	Pole	4	Ва	lsam Fir	Full	5 - 10 feet	5 - 10 feet				
	Quaking Aspen	5	Seedling	6 38						•			
	Black Spruce	80	Sapling	5 45									
74	4319 - Mixed	Upland Fo	rest	Poletimber Well	8.4 49 81		81-110	N/A		2027 YOE: 2-4 stick aspen, 5-7" dbh. diameter growth has increased			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	g slightly. dense fir understory. offsite, sandy soil - almost stagnate growth.2017 YOE: 1-2 stick aspen with scattered w pine. R pine			
	Quaking Aspen	55	Sapling	6 49	Ba	lsam Fir	Full	10 - 20 feet	10 - 20 feet	sawtimber inclusion at the N end of stand along bog edge - good form.			
	White Spruce	20	Sapling	5	Whit	e Spruce	Full	10 - 20 feet	10 - 20 feet	very thick fir understory			
	Red Pine	5		14									
	Balsam Fir	20	Sapling	5									
75	4212 - Plan	ted Jack Pi	ne	Unspecifed	32.8	1				2027 YOE: stand has been reherbicided in 2024. to be planted to JP in spring 20252017 YOE: extremely dense mix of low quality, off site aspen 1 - 2 sticks tall and stunted w spruce and fir. Stand is on a pine site as evidenced from old pine stumps, blueberry, sweet fern and good form to pine that is in the stand. Spruce and fir are of "Christmas tree" form with limbs down to the ground. stand cut summer 2019			
77	6225	5 - Bog		None	37.4			No		treed bog - stunted b spruce and tamarack			



Stand	Level 4 Cover Type			Size Density	Acres	Stand Age BA Range		Managed S	ite	General Comments			
78	4134 - Asp	4134 - Aspen, Spruce/Fir				36	36 Unspecified		١	2027 YOE: Aspen looks to be stagnate or at best extremely slow			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	growing. sand ground2017 YOE: Aspen 1 - 4" dbh with scattered trees moving into 1 stick class. upland b spruce and fir throughout with			
	Balsam Fir	30	Log	4	Hazelnut (Beake	nut (Beaked)	Medium	5 - 10 feet	5 - 10 feet	pockets of dense spruce/fir. Stand is of very low quality for aspen forest			
	Black Cherry	10	Log	1	Ва	ılsam Fir	Medium	5 - 10 feet	5 - 10 feet	type - 24 years old with an average dbh of 2".			
	Quaking Aspen	55	Sapling	6 36									
	White Spruce	5	Pole	4									
79	6224	Treed Bog		None	128.0			No		stunted b spruce and tamarack. scattered small island inclusions of upland spruce/fir			
80	4134 - Asp	en, Spruce/	Fir	Poletimber We	ell 8.6	49	Unspecified	N/A		2027 YOE: Aspen 2-4 sticks. Dense fir understory, scattered lower			
	Canopy Species % Cover Size Class		Size Class	DBH Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	stocked areas in E of stand. 2017 YOE: aspen 2 - 3 sticks. moderate - heavy fir. better quality aspen. Towards the Deer R b che			
	White Spruce	10	Sapling	6	Bla	ck Cherry	Low	10 - 20 feet	10 - 20 feet	is more prevalent due to beavers cutting aspen.			
	Black Cherry	5	Pole	4	Ва	lsam Fir	High	10 - 20 feet	10 - 20 feet				
	Quaking Aspen	55	Seedling	8 49					1	_			
	Balsam Fir	30	Sapling	7									
82	622	5 - Bog		None	8.8			No	ı	Deer River ponds and marsh			
83	6224	Treed Bog		None	8.3			No		b spruce and tamarack leading to Deer R. edge with open bog. High ground inclusions along extreme E edge of the stand and also W edge - 6 -8" dbh. b spruce with occasional aspen. little to no acreage.			
85	4130	- Aspen		Sapling Well	20.9	27	Unspecified	N/A	\	2027 YOE: scattered aspen just moving into poletimber size class			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	Sub-Canopy Species		Avg. Height	Size	A3A42017 YOE: aspen 16 - 20' tall. just about a pure aspen stand. scattered large w pine. N end of stand has higher incidence of fir.			
	Balsam Fir	5	Pole	4	Hazelı	nut (Beaked)	High	< 5 feet	< 5 feet				
	Quaking Aspen	90	Pole	3 27									
	White Pine	5		20									