DNR DICHIGAN

Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12117
Entry Year 2018
Acreage: 792
County Iron

Management Area: Michigamme Reservoir

Revision Date: 2016-08-08 Stand Examiner: Ed Rice

Legal Description:

T45N R32W sections 12, 24, 25

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the accessible aspen age class acres. Continue moving the hardwood stands towards regulation. Protect the riparian areas and transition zones during management activity.

Soil and topography:

Soils are generally silt loam areas with components of very fine sandy loams. The lowground areas consist of mucks and ponded histol soils. Rock outcrop complexs are included throughout. The topography consists mainly of flat to gently rolling. The north block of the compartment has small isolated areas of steep hills leading down to the Fence River.

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

The compartment is mainly contiguous state ownership in two blocks.. There is one private 40 acre inholding in the southern portion of the compartment. Large blocks of industiral private forest border the compartment. Active forest management has occurred and will continue within and surrounding the compartment.

Unique Natural Features:

none identified

Archeological, Historical, and Cultural Features:

none identified

Special Management Designations or Considerations:

none identified

Watershed and Fisheries Considerations:

The Fence River and its tributaries are cold water streams. The headwaters of Margesson Creek and the McCutcheon Creek are near this area.

Wildlife Habitat Considerations:

Species diversity and limited access provide a vast amount of life requisites for a variety of wildlife species. Featured species include: black bear, pileated woodpecker, northern goshawk, ruffed grouse, and white-tailed deer. Compartment includes state game fund lands and deer wintering complexes.

Mineral Resource and Development Concerns and/or Restrictions

Vehicle Access:

Little to none. Large expanses of ponded water prohibit vehicle access in most areas. The Deerfoot Lodge Roads runs through the south eastern portion of the compartment.

Survey Needs:

T45N R 32W S1/16 section 25

Recreational Facilities and Opportunities:

none

Fire Protection:

Due to the ponded water of the area and the fuel types this compartment is generally not prone to fire starts. Equipment access into the interior would be extremely limited. Fuels are generally aspen and hardwood types.

Additional Compartment Information:

The following reports from the Inventory are attached:

Total Acres by Cover Type and Age Class

Cover Type by Harvest Method

Proposed Treatments - No Limiting Factors

Proposed Treatments – With Limiting Factors

Stand Details (Forested and Nonforested)

Dedicated and Proposed Special Conservation Areas

Site Condition Details

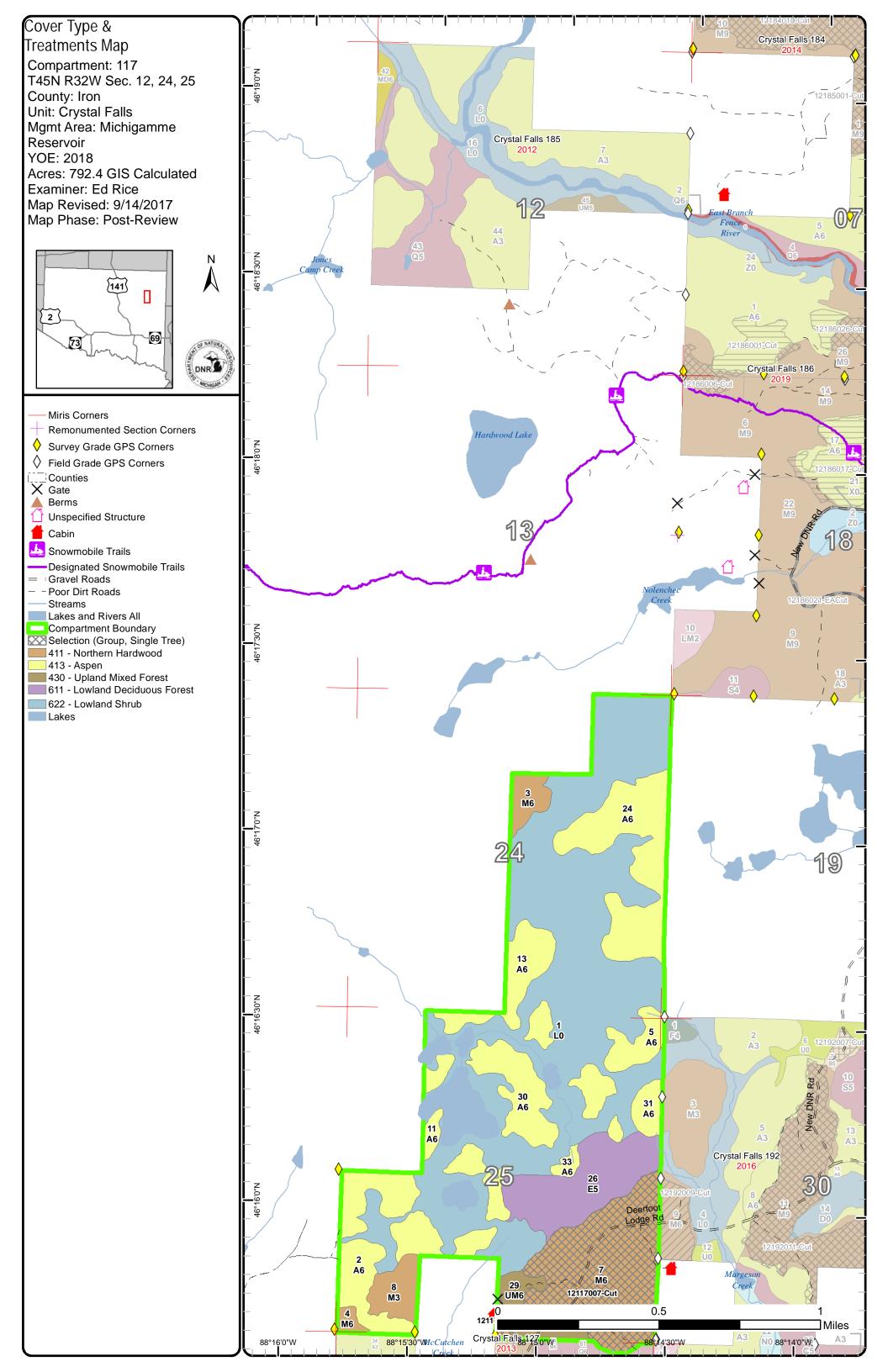
The following information is displayed, where pertinent, on the attached compartment maps:

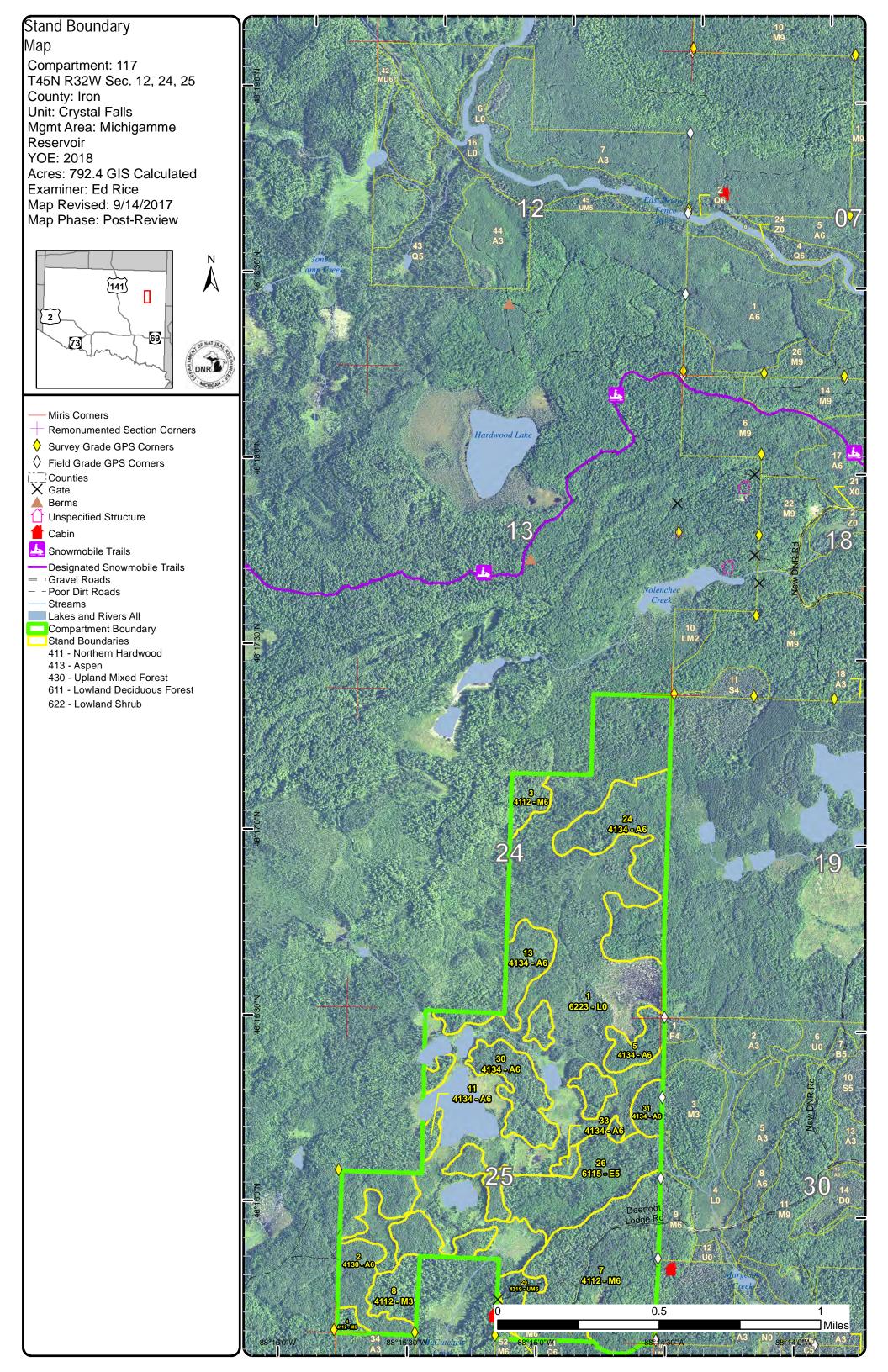
Base feature information, stand boundaries, cover types, and numbers

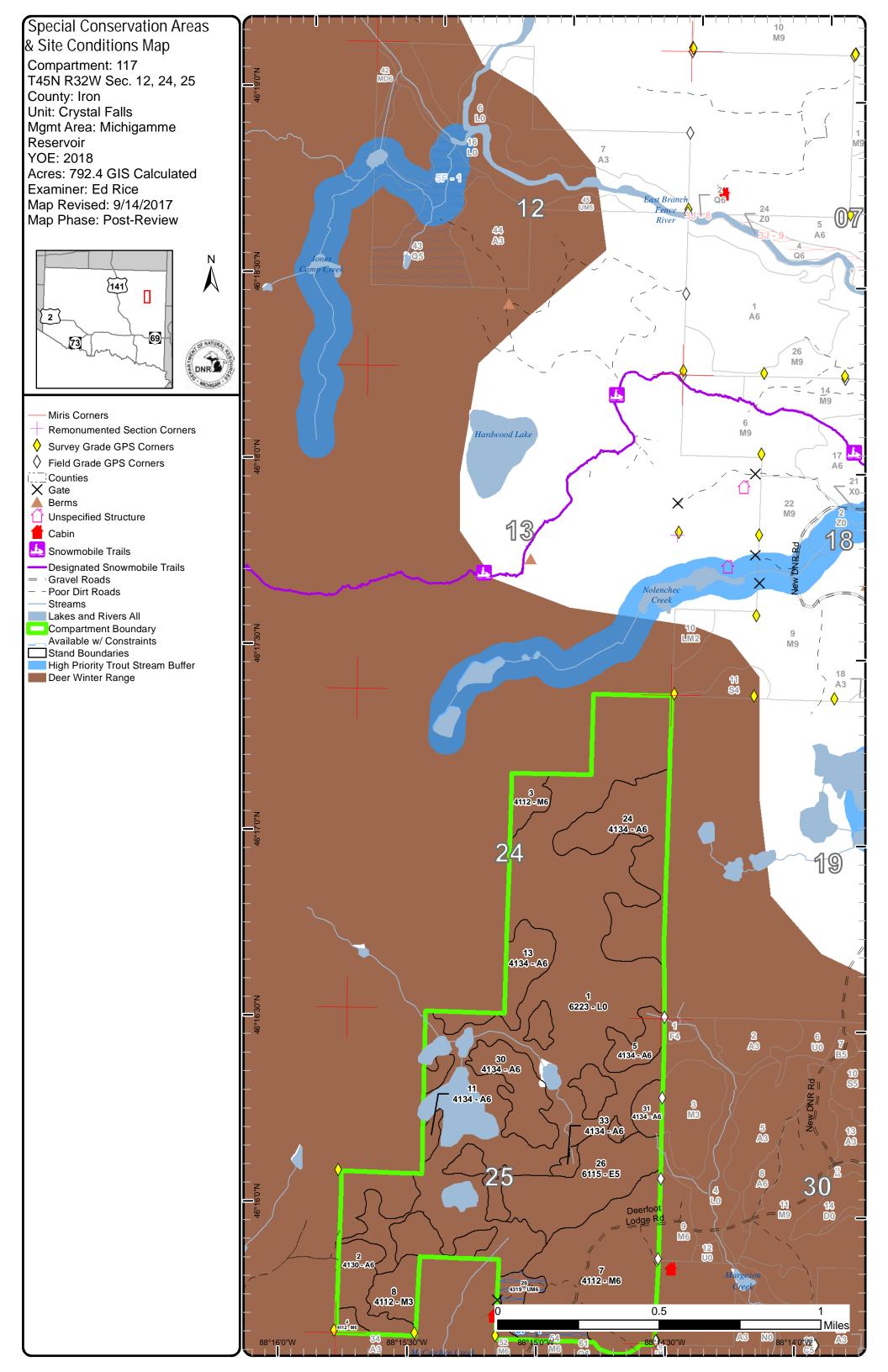
Proposed treatments

Site condition boundaries

Details on the road access system







Crystal Falls Mgt. Unit

Ed Rice: Examiner

Compartment 117 Year of Entry 2018



Age Class

	No.	A STATE OF THE PARTY OF THE PAR	, s ³ /2	S. S.	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3 / 6		, , , , ,	\$ / K	,	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3 /10	N / N	, S. S.	,		, ka /	St Just	S S S S S S S S S S S S S S S S S S S	;
Aspen	0	0	0	230	4	0	0	0	0	0	0	0	0	0	0	0	0	0	234	[
Lowland Deciduous	0	0	0	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	54	
Lowland Shrub	357	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	357	
Northern Hardwood	0	0	0	15	0	0	0	116	0	0	0	0	0	0	0	0	0	0	131	
Upland Mixed Forest	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	16	
Total	357	0	0	245	4	54	16	116	0	0	0	0	0	0	0	0	0	0	792	



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit Year of Entry: 2018

Acres of Harvest

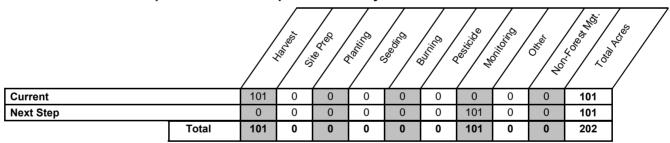
Compartment 117
Total Compartment Acres: 792

Commercial Harvest - 101 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Crystal Falls Mgt. Unit

Report 3 -- Treatments

Compartment: 117 Year of Entry: 2018

a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
7	12117007-Cut	101.2	4112 - Maple, Beech, Cherry Association	Poletimber Well	65	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription target BA 70. where possible create canopy gaps with adjacent large crowned seed tree maple. cut no yellow birch, hemlock or cedar. protect

lowland/vernal inclusions. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

S

Acceptable northern hardwood

Regen: <u>Other</u> Comment:

Proposed Start Date: 10/01/2017

Total Treatment Acreage Proposed:

101.2

Algt. Unit Compartment: 117
Year of Entry: 2018



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
	Potential Old Growth		SCA Removal	5
Comments				
does not meet old gro	wth criteria			
	Potential Old Growth		SCA Removal	162
Comments				
does not meet old gro	wth criteria			
	Potential Old Growth		SCA Removal	761
Comments				
does not meet old gro	wth criteria			

Crystal Falls Mgt. Unit Compartment: 117
Year of Entry 2018



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservati Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions stocked trout populations and those of other coldwater fish specific conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	es to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish speci year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	es (e.g., slimy sculpin) to persist from se conditions due to substantial
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildle and Waterfowl Production Areas, deer wintering complexes in loopenings and savannas. Habitat areas are distinct from critical hendangered or threatened species (such as Kirtland's warbler or general in nature, are not primarily associated with threatened or covered by species recovery plans that are developed in cooperations.	wland conifer communities, grassland abitat designated for recovery of piping plover areas) in that they are more rendangered species, and are not
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effe as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian cts on water quality and quantity, as well

S t	Crystal Falls		Report 7	- Forested	Stands Compartment: 117 Year of Entry: 2018	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4130 - Aspen	Poletimber Well	68.8	29	Immature	stand just moving into poletimber size class
3	4112 - Maple, Beech, Cherry Association	Poletimber Well	11.0	62	81-110	higher stocking fir as stand transitions toward lowground. very difficult access across wet swamps.
4	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.6	63	51-80	low quality. area has difficult access due to water
5	4134 - Aspen, Spruce/Fir	Poletimber Well	13.7	28	Immature	areas denser to fir along W side
7	4112 - Maple, Beech, Cherry Association	Poletimber Well	101.2	65	111-140	fair to good form overall. NE of stand has very scattered sawtimber 12 - 18" dbh. As stand progresses west, sawtimber becomes more prevalent Isolated inclusions of spruce/fir. small leatherleaf bog inclusion with hemlock at edges in S center of stand
8	4112 - Maple, Beech, Cherry Association	Sapling Well	15.4	29	Immature	very scattered w birch saplings/poletimber. scattered lowland pockets. r maple regen is mainly from stump sprouting
11	4134 - Aspen, Spruce/Fir	Poletimber Well	4.1	30	Immature	dense fir understory. stand just moving into poletimber size class. very difficult access
13	4134 - Aspen, Spruce/Fir	Poletimber Well	33.7	28	Immature	N end has interspersed lowland swales with tag alder. stand just transitioning from sapling to poletimber
24	4134 - Aspen, Spruce/Fir	Poletimber Well	63.6	28	Immature	areas of semi open scattered throughout - likely due to low aspen stocking in past cut. W edge transitions to lowland conifer and tag alder. extremely poor access due to very wet swamps
26	6115 - Lowland Ash	Poletimber Medium	53.8	42	Unspecified	extremely wet - very dense tag alder understory. scattered small upland islands with r maple, w birch and w spruce.
29	4319 - Mixed Upland Forest	Poletimber Well	16.4	54	Unspecified	r maple is very poor quality - twisted with seams. W edge of stand drops into lowland with cedar/b spruce/tag alder and wet ground
30	4134 - Aspen, Spruce/Fir	Poletimber Well	28.3	28	Immature	very similar to stand 31. extremely poor access due to multiple old beaver flowages with standing water.
31	4134 - Aspen, Spruce/Fir	Poletimber Well	19.0	28	Immature	aspen transitioning from sapling to poletimber. scattered upland cedar. stand is series of upland knobs among very wet, standing water swamp. extremely poor access

4134 - Aspen, Spruce/Fir

33

Poletimber Well

3.3

29

Immature

stand just moving into poletimber size class.

Report 8 - Nonforested Stands

Compartment: 117
Year of Entry: 2018



Stand	Cover Type	Acres	Managed Site	General Comments:
1	6223 - Inundated Shrub Swamp	356.6	No	open marsh with dead standing trees. areas of dense tag alder thickets. standing water throughout with multiple drainages and creek courses.