

Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33110
Entry Year 2019
Acreage: 120
County Delta

Management Area: Dead Horse Moraines

Revision Date: 2017-06-30 Stand Examiner: Jacob Siler

Legal Description:

Compartment 110: Section 15, T40N R23W, Delta County

Identified Planning Goals:

The proposed treatment within compartment 110 is a red pine thinning designed to enhance the existing stand quality.

Soil and topography:

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

Level to sloping. Soils range from poorly drained sands and loams in depressions on outwash plains and lake plains. Major soil series include Dawson and Greenwood peats, Kinross, Roscommon, Tawas and Emmet soils.

Unique Natural Features:

Reno Creek flows through this compartment.

Archeological, Historical, and Cultural Features:

None Known.

Special Management Designations or Considerations:

Rare plants along the Escanaba River not within the current compartment.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Ecological Context: This compartment is within a broad plain of loamy

ground moraine. Historically the uplands were covered with northern hardwood forests of sugar maple, beech, hemlock, cedar, and yellow birch. Lowlands were swamps of cedar, tamarack, black spruce, or bog. Small knolls within wetlands were often dominated by hemlock and white pine. Wind throw was the most common natural disturbance regime. During the past 100 years much of this landscape was converted to agriculture. Aspen forest increased greatly and hemlock and white pine declined due to early-day logging practices.

Recommendations: A red pine thinning is the only treatment proposed.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 110: Section 15, T40N R23W, Delta County

There is no known metallic mineral potential in this area, and there is no recent history of leasing. Limestone/dolostone potential appears to be good within the compartment due to shallow bedrock. Limestone quarries are located approximately one mile to the southwest and southeast of the compartment. Sand/gravel pits are also located in the area and there may be some potential for sand and gravel within the compartment. No economic oil and gas production has been found in the UP.

Vehicle Access:

The parcel of state land in Section 15 can be easily accessed by a good gravel road.

Survey Needs:

Property line establishment will be required for the proposed treatment.

Recreational Facilities and Opportunities:

Undeveloped recreational opportunities include canoeing, fishing, hunting and trapping.

Fire Protection:

In the event a fire should start in this area the access is attainable.

Additional Compartment Information:

Details on the road access system

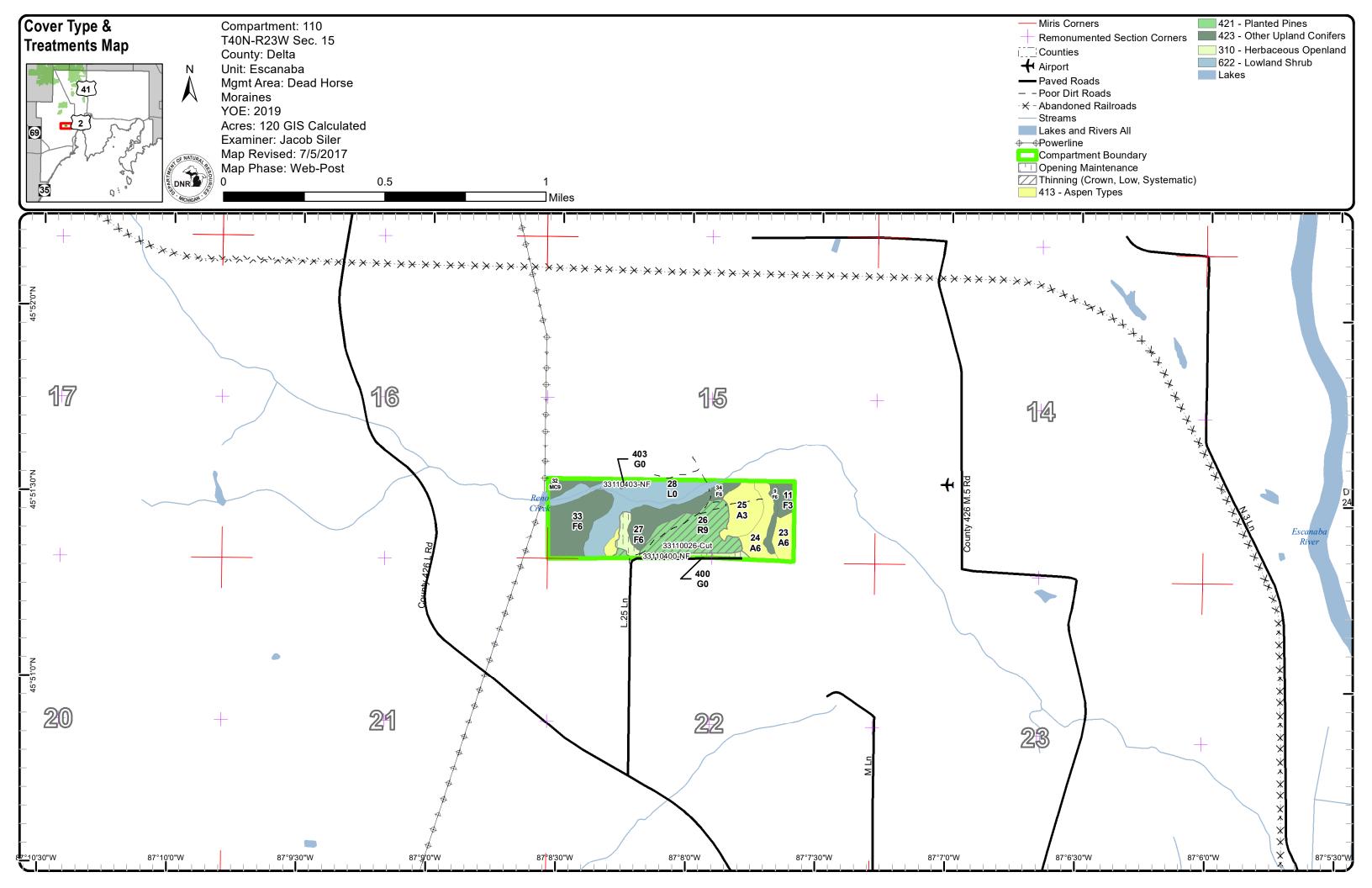
The following reports from the Inventory are attached:

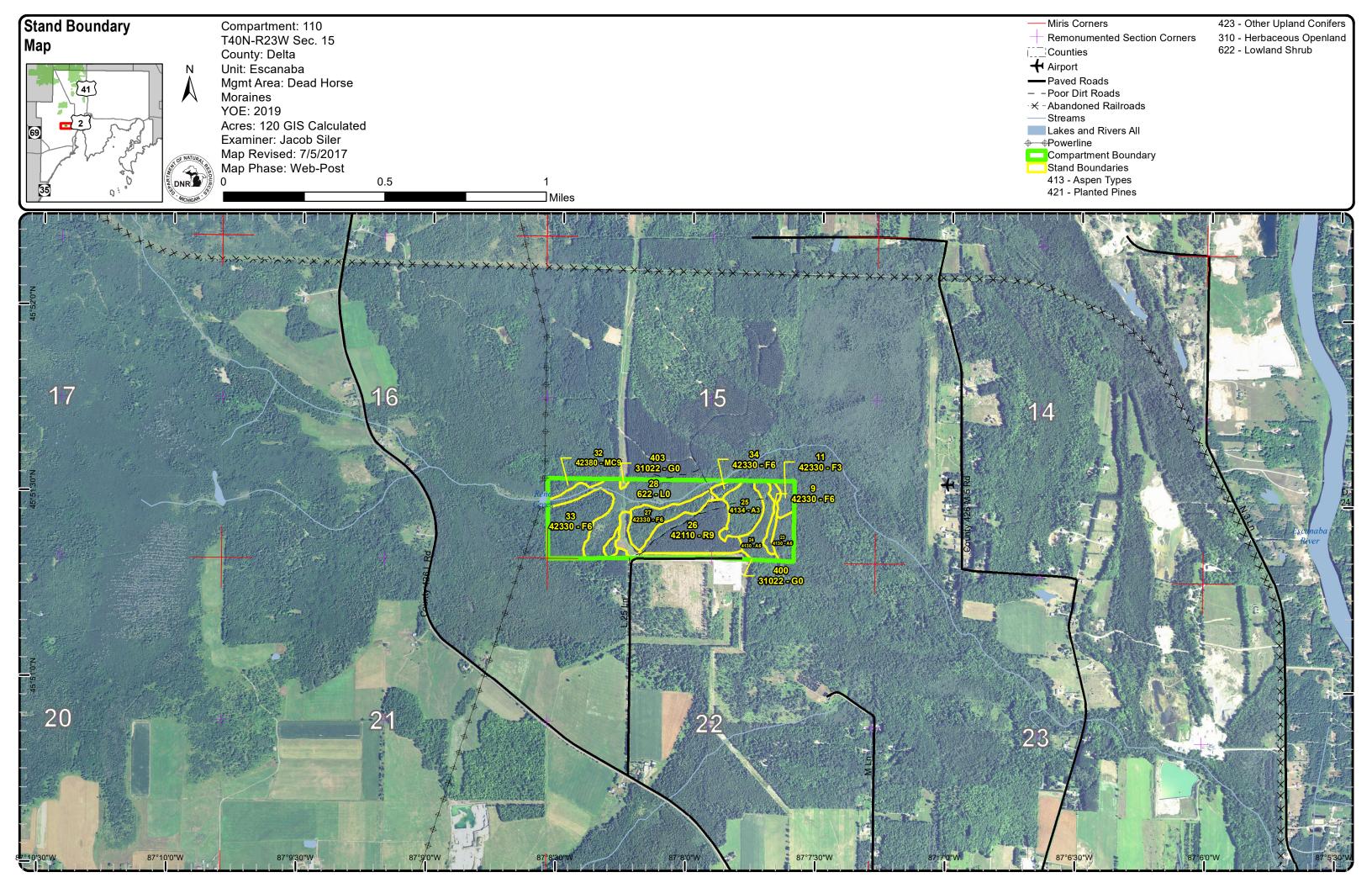
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

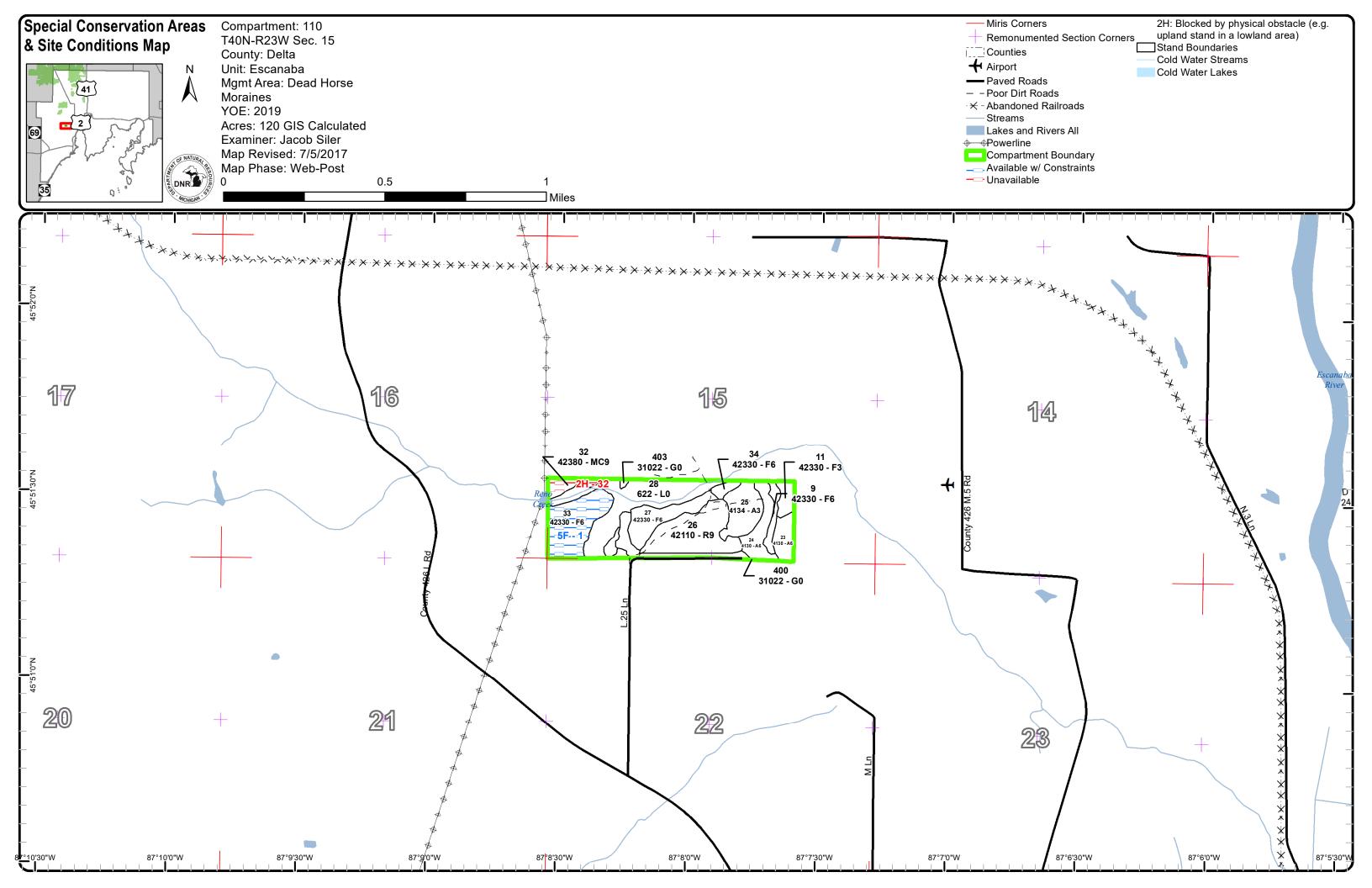
The following information is displayed, where pertinent, on the attached compartment maps:

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

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Escanaba Mgt. Unit
Jacob Siler: Examiner

Compartment 110 Year of Entry 2019



Age Class

	No.	A STATE OF THE PROPERTY OF THE	3 / 2	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	§ / §	A SO SO	, % %	15 / 15 15 / 15	₹ [®]	8 8	8 /8	20,00	, , , , , , , , , , , , , , , , , , ,	, S. S.	N. S. L.	N. A. A.	g* Jre	Les Lois	
Aspen	0	0	10	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	25	ĺ
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
Lowland Shrub	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	
Red Pine	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	21	
Upland Conifers	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4	
Upland Spruce/Fir	0	0	0	0	35	0	0	2	0	0	0	0	0	0	0	0	0	0	37	
Total	33	0	10	0	50	21	0	2	4	0	0	0	0	0	0	0	0	0	120	



Report 2 – Treatment Summary

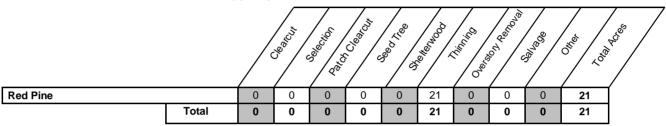
Escanaba Mgt. Unit Year of Entry: 2019

Acres of Harvest

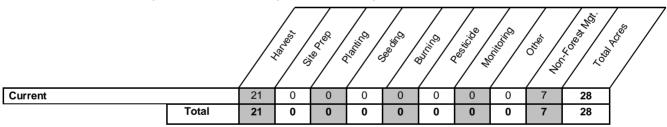
Compartment 110
Total Compartment Acres: 120

Commercial Harvest - 21 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Escanaba Mgt. Unit Report 3 -- Treatments Compartment: 110 s Year of Entry: 2019 а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Approval n Method Objective Status Name CoverType Density Structure d Age Range **Type** 33110026-Cut 42110 - Planted 4211 - Planted 26 21.3 Sawtimber 47 141-Harvest Crown Thinning Even-Aged Proposal Red Pine Red Pine Well 170 **Habitat Cut: No Site Condition:** Prescription Retain approximately 100 to 110 BA throughout the stand. Specs: Next Step Treatments: Acceptable Regen: Other Comment: Proposed Start Date: 10/01/2018 400 33110400-NF 31022 - Warm NonForestMat Herbaceous/Crop/ 310 -Nonstocked Unspec Proposal **Grass Planting** Herbaceous Season Grass ified Openland **Habitat Cut: No Site Condition:** Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Specs: Next Step **Treatments:** Acceptable Regen: Other Comment: **Proposed Start Date:** 10/01/2018 33110403-NF 0.4 31022 - Warm Nonstocked Unspec NonForestMgt Herbaceous/Crop/ 310 -Proposal

Habitat Cut: No

Site Condition:

Season Grass

<u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.

Grass Planting

Herbaceous Openland

ified

Next Step

Treatments:

<u>Acceptable</u>

Regen:

<u>Other</u>

Comment:

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed:

28.4

Compartment: 110

Escanaba Mgt. Unit

Jacob Siler : Examiner Year of Entry: 2019

Availability for Management

Total Acres Acres Avail Acres Dominant Site Conditions

Acres	Available	With Condition	Not Available		5F	2H
25	25	0	0	Aspen		
7	7	0	0	Herbaceous Openland		
26	26	0	0	Lowland Shrub		
21	21	0	0	Red Pine		
4	0	0	4	Upland Conifers		4
36	19	18	0	Upland Spruce/Fir	18	
120	98	18	4	Total Forested Acres	18	4
-	82%	15%	3%	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	Available	5F: Evaluated for Forest Health Considerations	18	Unspecified	Unspecified	Unspecified	Unspecified		
_	Comments: This stand was evaluated for SBW. Any spruce and fir is located along Reno Creek and rest of stand is red maple. and aspen.								
32	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified		
Comments:									

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Escanaba Mgt. Unit

Compartment: 110 Year of Entry: 2019



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	31
Comments Does not meet SCA criteria.				

Escanaba Mgt. Unit Compartment: 110





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.

Conservation Area	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	stocked trout populations and those of other coldw year to year. Coldwater streams in Michigan typica	Such streams are established by Director's action and

S t	Escanaba	Mgt. Unit		Report 7	– Forested	Stands Compartment: 110 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
9	42330 - Upland Fir	Poletimber Well	3.0	34	1-50	OPIC - FMD: This stand was harvested in 1983. Harvested under contract 43-80A, Reno Creek Aspen. This is the East slope of the ridge and contractor must have left a lot of 1 stick balsam. There is also some young aspen containing -12 sticks in this stand.
						Stand is mostly balsam fir saplings under sparse pole sized aspen, red maple and balsam fir. Trace amounts of cedar.
11	42330 - Upland Fir	Sapling Well	3.4	32	Immature	OPIC - FMD: Young balsam fir, spruce and some tamarack is also included.
						Stand is mostly high density balsam fir saplings with scattered pole sized trees. Trace amounts of cedar, balsam poplar and spruce.
23	4130 - Aspen	Poletimber Well	5.4	32	81-110	OPIC - FMD: Stand was cut in 1985 under permit #33-83-1 "Reno Creek Aspen".
						Basal area can be noted as variable with some areas having considerably more BA than others. East side of stand is wet with lots of tag alder, some small BF saplings and scattered aspen. The amount of red maple saplings is also variable with some areas having more sub-merchantable red maple than aspen. Red maple sapling percentage is factored in with the red maple pole percentage for canopy; Red maple sapling 10% red maple pole 2%
24	4130 - Aspen	Poletimber Well	9.5	34	81-110	OPIC - FMD: Stand was cut under permit 43-80A "Reno Creek Aspen" in 1983. Stand has variable BA. Southern half of stand has large amount of red maple saplings and less aspen. Northern half of stand has larger aspen and less red maple than southern half. Red maple sapling percentage is 20% of red maples 22% canopy cover. Trace amounts of white birch, cherry and northern red oak. Far west portion of stand has pole sized aspen, red maple and balsam fir. Medium to high density balsam fir and red maple saplings
25	4134 - Aspen, Spruce/Fir	Sapling Well	10.3	17	Immature	OPIC - FMD: This stand was harvested spring of 2000. Harvested under permit #33-006-99-01 "Reno Creek Sale"
						Southern peninsula of stand 25 that juts into red pine stand 26 is a conifer and red maple mix. It was formally part of stand 26.
26	42110 - Planted Red Pine	Sawtimber Well	21.3	47	141-170	OPIC - FMD: This stand was harvested for the second time in 2009 under contract 330040901, Reno Creek Pine. This stand was planted in 1970. First thinning was done during 2000. Harvested under permit #33-006-99-01 "Reno Creek Sale". There is no understory in this stand.Part of stand north of road has greater amount of red maple saplings than south of the road. Density medium/low.

S t	Escanaba	a Mgt. Unit		Report 7	– Forested	Stands Compartment: 110 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	42330 - Upland Fir	Poletimber Well	10.5	34	111-140	OPIC - FMD: Stand was cut in 1983 under permit #43-80A "Reno Creek Aspen".
						Stand is mostly pole/sap sized balsam fir ranging from 4 to 10 inches. Scattered pole/log paper birch, cherry, white spruce and aspen. Some trace amount of oak. Southwest portion of stand contains more sapling and pole sized red maples with some pole sized aspen. North end of stand slopes to creek and has some small sparse openings.
						Far north end of stand across road and bordering stand 25 and Reno creek:
						OPIC - FMD: Small pocket of timber that was left when Reno Creek Aspen sale (33-006-99-01) was put up. It was due to it's proximity to Reno Creek it is being listed as SCA.
						Lots of DDW. Mostly pole sized balsam fir with some pole sized red maple, cedar, cherry and paper birch. BA around 80.
32	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	3.7	76	51-80	OPIC - FMD: Small area of high ground on north side of Reno Creek. Access is difficult and the amount of wood is not enough to componsate the placement of a culvert or bridge. SCA included as riparian buffer along reno creek.
						Lots of large balsam fir that is falling down. Large balsam fir is mixed with paper birch, red maple and trace amounts of white spruce. Red maple saplings are coming up under current overstory. East portion of stand is mostly cedar.
33	42330 - Upland Fir	Poletimber Well	17.8	31	51-80	OPIC - FMD: A3-Big Island-cut in 1986 under permit #12-85-2 "Reno Creek West Island Sale".
						Stand is mostly balsam fir saplings with pockets of pole sized aspen and red maple. Trace amounts of pole sized white spruce and cherry. Some scattered large balsams fir.
34	42330 - Upland Fir	Poletimber Well	1.8	66	81-110	OPIC - FMD: Small pocket of timber that was left when Reno Creek Aspen sale (33-006-99-01) was put up. It was due to it's proximity to Reno Creek it is being listed as SCA.
						Lots of DDW. Trace amount of log sized aspen.

Report 8 - Nonforested Stands

Compartment: 110 Year of Entry: 2019



Stand	Cover Type	Acres	Managed Site	General Comments:
28	622 - Lowland Shrub	25.8	No	OPIC - FMD: SCA. Lowland area surrounding Reno Creek-mostly tag alder with larch.
400	31022 - Warm Season Grass	6.7	No	OPIC - FMD: Power line right of way.
403	31022 - Warm Season Grass	0.4	No	OPIC - FMD: Powerline Right of Way.