



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33030

Entry Year 2020

Acreage: 1,401

County Menominee

Management Area: Menominee End Moraine

Revision Date: 2018-06-13

Stand Examiner: Dustin Salter

Legal Description:

T34N R28W Sections 8, 9, 10, and 11

Identified Planning Goals:

This compartment has an equal mix of upland and lowland cover types. The upland stands consist primarily of mixed hardwood, oak, and aspen. The lowland areas consist of lowland hardwoods, mixed conifer, and lowland brush. A few of the mature higher quality upland hardwoods will be thinned. Some of the mature lower quality hardwood stand will be clearcut, allowing the hardwoods to stump sprout with full sunlight. Some of these lower quality hardwood stands have been thinned previously allowing some conifer species to become established. This regeneration now needs to be released before it becomes stagnated. These stands will regenerate to a mix of hardwoods and conifer. The lowland ash stands with the most timber value will be harvested, prior to the arrival of the emerald ash borer arriving. Some of the lower quality ash stands will be retained to provide this covertype across the landscape. The eastern larch beetle is present within the compartment and has caused a significant amount of tamarack mortality.

Soil and topography:

The topography is level with a few rolling hills. The lowland portions of the compartment consist primarily of black loam/muck over sand. In the upland portions it is mainly fine sand and loamy sand over sandy loam. The main soil series are: Arnheim-Moquah complex, Lupton-Tawas association, Amasa, Mancelona-Nadeau complex, and Rousseau.

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

This compartment lies at the southern end of a band of state land that is about 20 miles long and 8 miles wide. The entire southern border of the compartment borders the Menominee River. To the north of this compartment it is primarily private land. This area has a few year round residences, but there are a number of camps. Recreation is the primary activity in this compartment and the lands around it.

Unique Natural Features:

There are three miles of Menominee River frontage within this compartment.

Archeological, Historical, and Cultural Features:

There is an old logging camp site along the river in section 10.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartments southern border is along the Menominee River. Snakey Lake is within the compartment and Burke Creek flows along the western edge of the compartment. There are a couple of older beaver dams blocking water flow from Snakey Lake to the Menominee River. No recent activity was seen.

Wildlife Habitat Considerations:

This compartment lies adjacent to the Menominee River and contains several types of hardwood forest: northern, floodplain, and lowland. Many of these stands exhibit valuable species diversity not seen in other portions of the Forest Unit. In addition to the Menominee River, Snakey Lake, Woesner Lake, and numerous floodplain and vernal pools provide aquatic habitat for species such as bald eagles, wood ducks, frogs, and salamanders. An area along the Menominee River and the small lakes and drainages promote closed-canopy, large tree conditions with snags and dead woody debris for riparian zone wildlife. Maintenance of vegetative diversity is a key emphasis for wildlife in these stands

Mineral Resource and Development Concerns and/or Restrictions

The nearest active non-metallic mineral production is located more than three miles away. There appears to be some sand & gravel potential within the compartment, but much of the area is covered by wetlands, which could inhibit

development. There does not appear to be significant potential for bedrock non-metallic minerals. No economic oil and gas production has been found in the UP. There is no history of mineral leasing in this area. Metallic mineral potential appears to be low.

Vehicle Access:

This compartment has good access via the Sturgeon Landing and Snakey Lake roads. There are a number of two-track roads that branch off of the Snakey Lake road that offer access into different parts of the compartment.

Survey Needs:

Possibly one registered corner will need to be set, to prepare a timber sale.

Recreational Facilities and Opportunities:

There is a state maintained boat launch on the Menominee River in section 8. There is a non-maintained boat launch on Snakey Lake where you can put in a small aluminum boat or canoe. This area is used extensively by hunters, trappers, campers, fishermen, and ORV users.

Fire Protection:

There is very little potential for major wildfires in this compartment; except in the spring before green up. Most of the upland portions are surrounded by drainages or floodings. There are a number of good water sources within the compartment.

Additional Compartment Information:

This compartment used to have a significant amount of hickory along the river and in other upland hardwood stands, but hickory decline came through the area in the past ten years and killed all of it.

The following reports from the Inventory are attached:

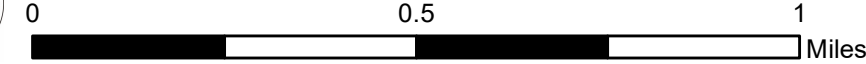
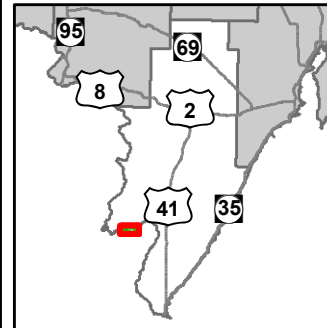
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

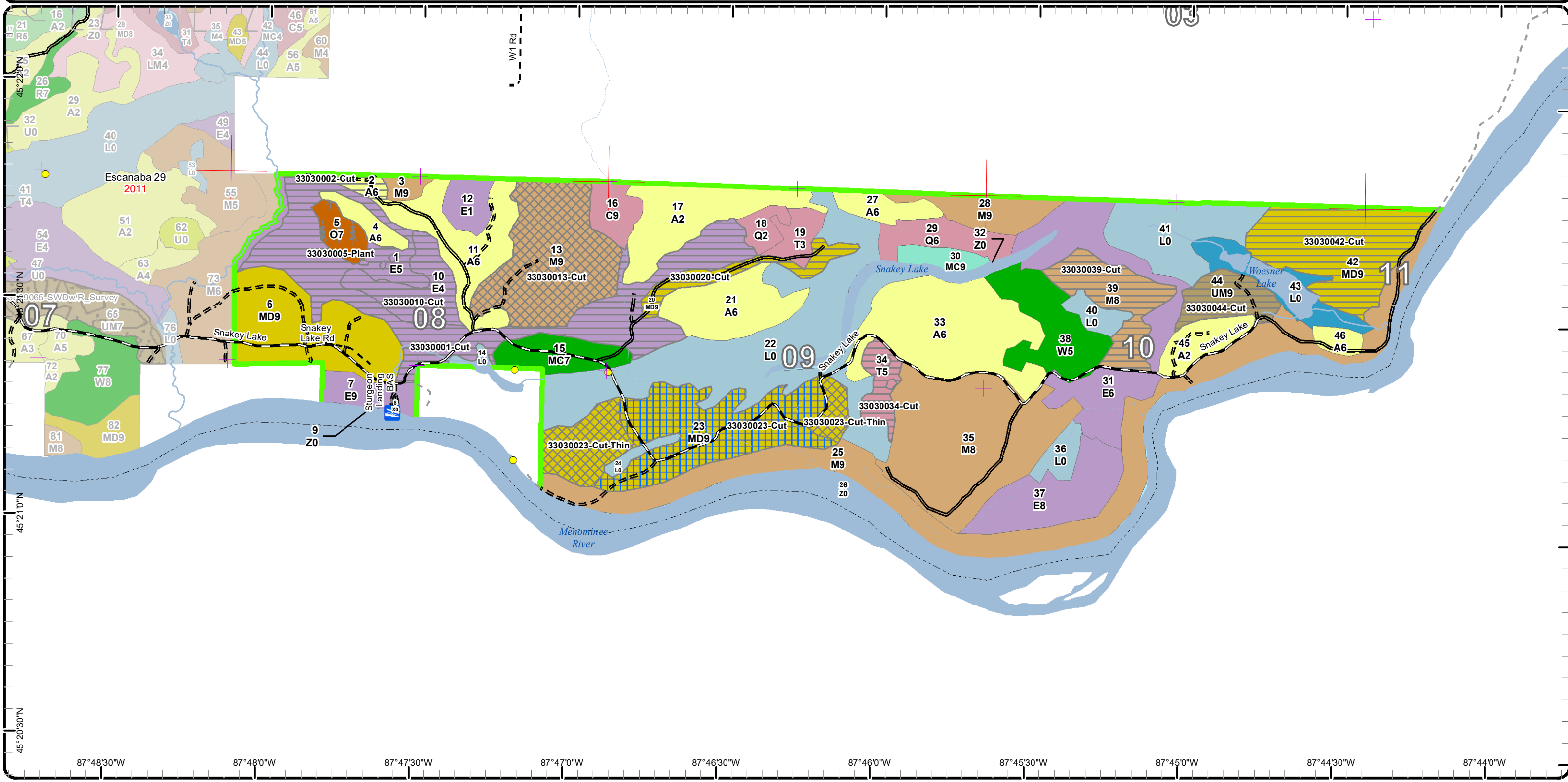
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 30
 T34N R29W Sec. 1,2
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee End
 Moraine
 YOE: 2020
 Acres: 1,401 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 7/2/2018
 Map Phase: Web - Post

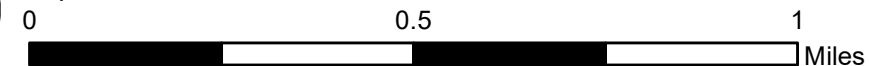
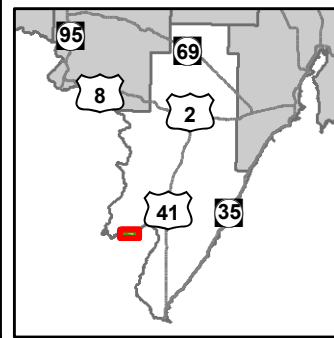


- Miris Corners
- ✚ Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- - Private - Dirt / Gravel Road
- 🚤 Boating Access Site
- ⋯ Intermittent Stream
- Lake/Pond
- Perennial River
- 🟦 Lakes and Rivers All
- 🟩 Compartment Boundary
- ⊠ Selection (Group, Single Tree)
- 🌲 Planting (tree species)
- 🏠 Clearcut (w/Reserves)
- 🌲 Seed Tree (w/Reserves)
- 🟤 411 - Northern Hardwood
- 🟤 412 - Oak Types
- 🟡 413 - Aspen Types
- 🟡 419 - Mixed Upland Deciduous
- 🟢 422 - Natural Pines
- 🟢 429 - Mixed Upland Conifers
- 🟤 430 - Upland Mixed Forest
- 🟪 611 - Lowland Deciduous Forest
- 🟪 612 - Lowland Coniferous Forest
- 🟤 122 - Roads/Parking Lot
- 🟦 500 - Water
- 🟤 622 - Lowland Shrub
- 🟦 629 - Mixed non-forested wetland
- 🟦 Lakes

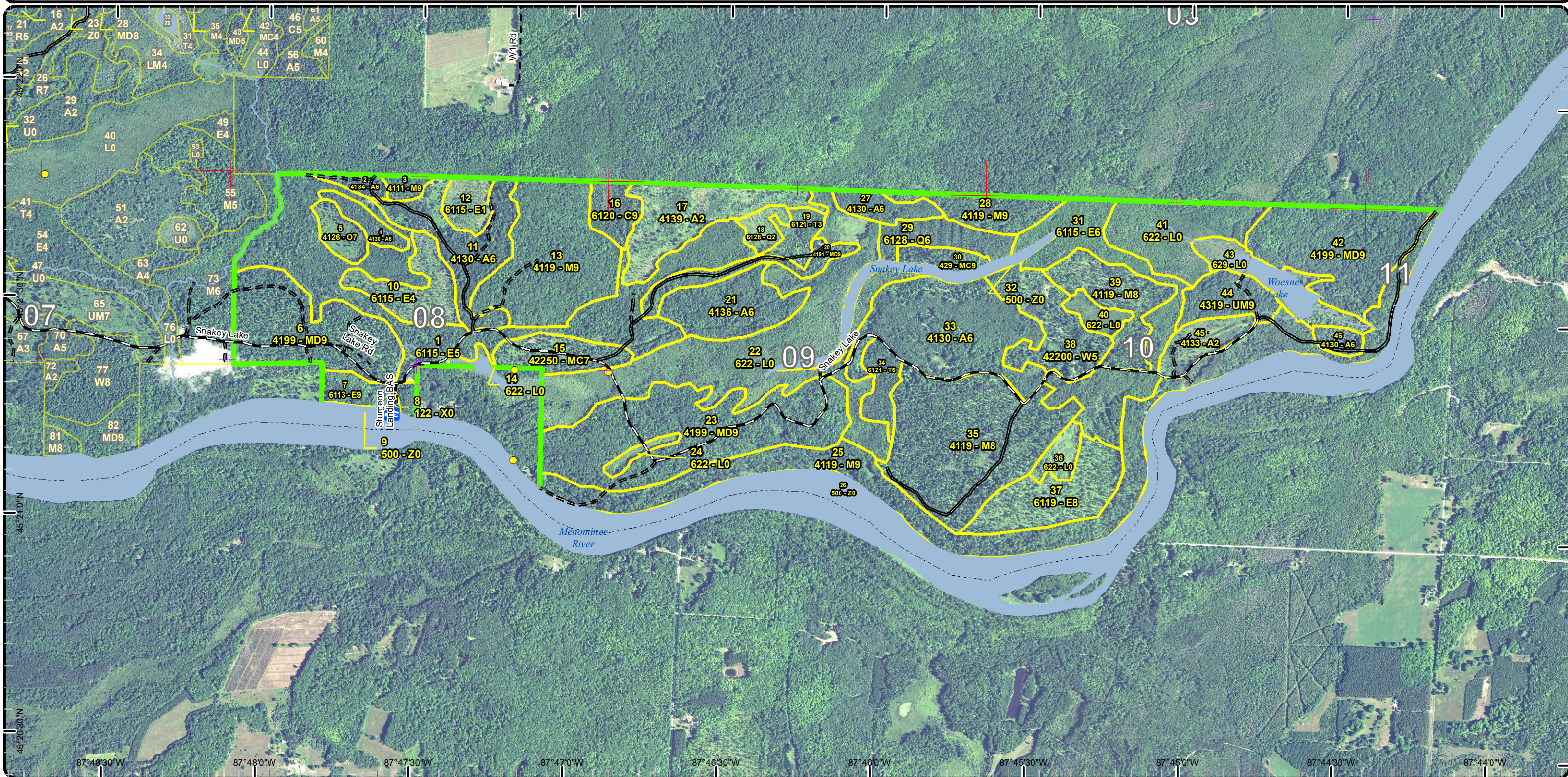


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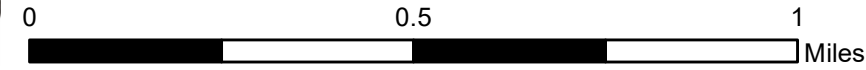
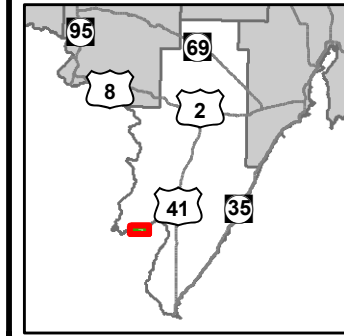
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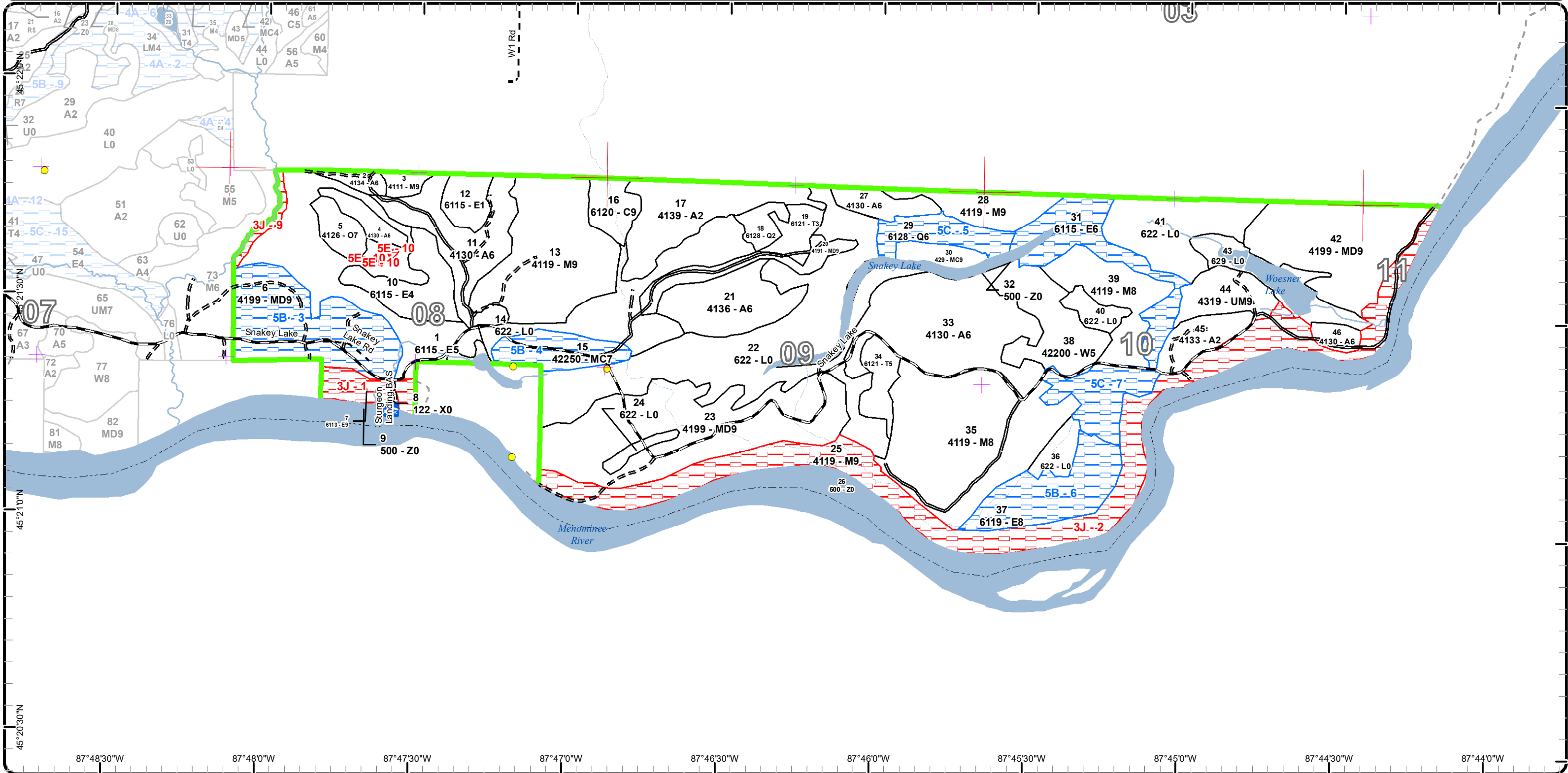
45°21'0" N
 45°20'30" N
 87°48'30" W 87°48'0" W 87°47'30" W 87°47'0" W 87°46'30" W 87°46'0" W 87°45'30" W 87°45'0" W 87°44'30" W 87°44'0" W

Special Conservation Areas & Site Conditions Map

Compartment: 30
 T34N R29W Sec. 1,2
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee End
 Moraine
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- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	51	0	37	83	41	0	0	0	0	0	0	0	0	0	0	0	0	211
Cedar	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	12
Lowland Conifers	0	7	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	24
Lowland Deciduous	0	0	0	0	0	10	0	0	0	22	207	0	0	0	0	0	0	0	238
Lowland Shrub	191	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	191
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	204	14	0	0	0	0	0	0	0	218
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	18
Northern Hardwood	0	0	0	0	0	0	0	0	88	146	82	0	0	0	0	0	0	0	316
Oak	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Tamarack	0	0	0	9	0	0	0	0	0	11	0	0	0	0	0	0	0	0	20
Upland Conifers	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	17
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0	31
Total	278	58	0	46	83	49	10	0	0	88	409	321	12	17	0	0	0	31	1400



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 30

Total Compartment Acres: 1,401

Commercial Harvest - 412
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	5	0	0	0	0	0	0	0	0	5
Lowland Deciduous	124	0	0	0	0	0	0	0	0	124
Mixed Upland Deciduous	71	30	0	62	0	0	0	0	0	163
Northern Hardwood	28	64	0	0	0	0	0	0	0	92
Tamarack	10	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	17	0	0	0	0	0	0	0	0	17
Total	256	93	0	62	0	0	0	0	0	412

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	412	0	9	0	0	0	0	0	0	421
Next Step	0	0	0	0	0	0	421	0	0	421
Total	412	0	9	0	0	0	421	0	0	842



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	33030001-Cut	101.8	6115 - Lowland Ash	Poletimber Medium	104	81-110	Harvest	Clearcut with Retention	6115 - Lowland Ash	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees greater than 3 inches; except retain the three denser patches of cedar, that have been delineated out. If other dense patches of cedar are identified retain them as well. Also, mark some oak and pine to retain. A 100' buffer will be retained along Burke Creek and the smaller tributaries on the east end of the stand. The buffer along Burke Creek has been removed from the harvest area.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Maple, ash, oak, birch, spruce/fir, and white pine.											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2019											
2	33030002-Cut	4.9	4134 - Aspen, Spruce/Fir	Poletimber Well	39	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees greater than 3 inches. No retention will be left due to small stand size and the presence of the spruce budworm.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Aspen, oak, maple, pine, and spruce/fir.											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2019											
5	33030005-Plant	9.2	4126 - White, Black, N. Pin Oak	Sawtimber Poor	95	1-50	Planting	Initial Plant	429 - Mixed Upland Conifers	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Hand plant, either white pine or white spruce or a mix of both species. No trenching or herbiciding will be necessary. Only about 60% of the stand acreage will be planted, due to some wet areas and the existing regeneration and mature trees present.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Artificial Regen(3yr)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Pine, spruce/fir, tamarack, and any hardwood species.											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2019											
10	33030010-Cut	22.3	6115 - Lowland Ash	Poletimber Poor	95	1-50	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees greater than 3 inches, except retain all spruce, oak, and yellow birch.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Spruce/fir, maple, balm, ash, and white pine.											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2019											



S t 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
13	33030013-Cut	63.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	104	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal

Habitat Cut: No **Site Condition:**

Prescription Thin stand down to 80 to 90 BA. Focus on lowering the percentage of beech and ash within the stand, along with improving the quality of the stand.
Specs: Retain a 100' buffer along the small creek in stand 1, along the eastern edge.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Sugar maple, oak, red maple, and basswood.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2019

20	33030020-Cut	14.3	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	104	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Cut all trees greater than 3 inches, except retain all hemlock and mark some pine and oak to retain. Retain a 100' buffer along the small creek on the south end of the stand.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Maple, basswood, aspen, pine, oak, and spruce/fir.
Regen:

Other There used to be an eagles nest within this stand, but there is no evidence of it anymore.
Comment:

Proposed Start Date: 10/01/2019

23	33030023-Cut	62.2	4199 - Other Mixed Upland Deciduous	Sawtimber Well	96	81-110	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Cut all trees greater than 3 inches; except mark to retain some oak and pine. Some of the oak will be retained in dense clumps/pockets. Retain a 100' buffer along the creek on the eastern edge of the stand.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Oak, maple, pine, basswood, ash, and spruce/fir.
Regen:

Other A portion in the center of the stand will have a seed tree harvest done and two higher quality portions on both ends will be thinned.
Comment:

Proposed Start Date: 10/01/2019

23	33030023-Cut- Thin	29.5	4199 - Other Mixed Upland Deciduous	Sawtimber Well	96	81-110	Harvest	Single Tree Selection	4319 - Mixed Upland Forest	Uneven-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Thin stand down to 70 BA, improving the quality of the stand. Leave a mix of species.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Oak, maple, pine, basswood, ash, and spruce/fir.
Regen:

Other A portion in the center of the stand will have a seed tree harvest done and two higher quality portions on both ends will be thinned.
Comment:

Proposed Start Date: 10/01/2019



S t 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
34	33030034-Cut	10.3	6121 - Tamarack	Poletimber Medium	93	51-80	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	Proposal

Habitat Cut: No **Site Condition:**

Prescription Cut all trees greater than 3 inches; except retain the two denser patches of cedar. These patches have been delineated out of the treatment.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Tamarack, spruce, balsam, and lowland hardwood.
Regen:

Other The eastern larch beetle has already caused some tamarack mortality.
Comment:

Proposed Start Date: 10/01/2019

39	33030039-Cut	28.4	4119 - Mixed Northern Hardwoods	Sawtimber Medium	91	1-50	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Cut all trees greater than 3 inches; except retain all hemlock and pine. Also, mark to retain some oak and beech for mast and diversity. Mark to retain the cedar that are part of the dense pockets of hemlock.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Maple, aspen, ash, pine, and spruce/fir.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2019

42	33030042-Cut	57.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	94	81-110	Harvest	Clearcut with Retention	4119 - Mixed Northern Hardwoods	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Cut all trees greater than 3 inches; except retain some dense pockets of high quality oak. Also, mark to retain some white pine and white oak.
Specs: Overall the stand should have 5 to 10% retention.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Oak, maple, pine, ash, and spruce/fir.
Regen: If the regeneration fails, due to deer browsing, plant the stand with red or white pine.

Other There is a possible oak wilt epi-center in the northwestern portion of the stand. If confirmed, treat as necessary.
Comment:

Proposed Start Date: 10/01/2019

44	33030044-Cut	17.3	4319 - Mixed Upland Forest	Sawtimber Well	94	51-80	Harvest	Clearcut with Retention	42340 - Upland Spruce/Fir	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Cut all trees greater than 3 inches; except mark to retain some clumps of oak and some scattered pine and beech.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Oak, aspen, maple, pine, and spruce/fir.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2019

Total Treatment Acreage Proposed: 421.0

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 30
Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5B	5C	3J	5E
211	211	0	0	Aspen				
11	11	0	0	Cedar				
24	7	17	0	Lowland Conifers		17		
239	135	88	17	Lowland Deciduous	34	54	16	1
191	191	0	0	Lowland Shrub				
218	163	55	0	Mixed Upland Deciduous	55			
18	0	18	0	Natural Mixed Pines	18			
316	202	0	113	Northern Hardwood			113	
9	9	0	0	Oak				
20	20	0	0	Tamarack				
8	8	0	0	Upland Conifers				
17	17	0	0	Upland Mixed Forest				
1	1	0	0	Urban				
86	86	0	0	Water				
31	31	0	0	White Pine				
1,401	1,093	178	130	Total Forested Acres	107	71	129	1
	78%	13%	9%	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 Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Floodplain of the Menominee River.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	113	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Menominee River riparian corridor.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 30
Year of Entry: 2020

3	Available	5B: Maintain for regeneration purposes	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Maintaining the overstory until the white pine and other conifer regeneration becomes established.							
4	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The residual species are being retained to provide seed and partial shade to regenerate the stand.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand was strip cut in the 1970's. The residual strips are mostly mature cedar and the cut strips contain younger spruce and tamarack, most of which is sub-merchantable.							
6	Available	5B: Maintain for regeneration purposes	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is a mature lowland hardwood stand that was shelterwood cut last entry. The stand hasn't regenerated yet, so the overstory will be maintained until the stand gets some regeneration established.							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay harvest on this stand, while the adjacent stands are harvested and or regenerating.							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Maintain a 100' buffer along Burke Creek and tributaries.							

10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Denser cedar patches that are being retained.							

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
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Comments



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.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6115 - Lowland Ash	Poletimber Medium	106.4	104	81-110	Lowland ash stand. There are areas of higher quality ash and red maple and lower quality areas of primarily black ash. There are a couple of drains that flow through the stand, between stands 13 and 15.
2	4134 - Aspen, Spruce/Fir	Poletimber Well	4.9	39	51-80	Variable stand, that is a mix of age classes and species composition. The larger maple and aspen were cut out of the stand in 1979-80, after a previous harvest where some of the stems were cut. There is some defoliation from the spruce budworm within the stand, but no mortality at this time.
3	4111 - S.Maple, Hard Mast Association	Sawtimber Well	4.3	95	81-110	Good quality hardwood stand that was thinned in 2011 on contract 025-10-01. This stand was previously thinned in 1993.
4	4130 - Aspen	Poletimber Well	7.5	39	51-80	Moderate to lower quality aspen stand, with a significant amount of red maple mixed in.
5	4126 - White, Black, N. Pin Oak	Sawtimber Poor	9.2	95	1-50	This stand was cut in 1990 on contract 002-90-01. The oak and cedar were retained. The stand now contains scattered mature oak and cedar, with some scattered spruce/fir, white pine, and tamarack regeneration. The stand did not regenerate well. About 60% of the stand is upland.
6	4199 - Other Mixed Upland Deciduous	Sawtimber Well	55.0	93	51-80	Moderate quality hardwood stand with some white pine, aspen, red maple, and red oak regeneration from the last harvest. The stand was thinned in 2010-11 on contract 024-10-01.
7	6113 - Lowland Maple	Sawtimber Well	12.2	104	111-140	Lowland hardwood stand that is part of the floodplain of the Menominee River.
10	6115 - Lowland Ash	Poletimber Poor	22.3	95	1-50	Stand was shelterwood cut in 2013 on contract 025-10-01. Low quality and density ash stand, that has about 30 BA of residual. About 70% of the cedar that was retained has blown over. The ash and maple stump sprouts from the last harvest have been heavily browsed by deer, causing a significant amount of mortality. The overstory needs to be removed to release the existing regeneration and allow the mature ash and maple to sprout.
11	4130 - Aspen	Poletimber Well	36.6	26	1-50	Good Quality aspen stand. Stand was clearcut in 1992-1993 on contract 002-90-01. The oak and some pine were retained. There is a possible oak wilt epi-center on the south end of the stand. If funding is available treat the oak wilt as needed.
12	6115 - Lowland Ash	Sapling Poor	10.4	50	1-50	Stand was seed tree cut in 2012 and 2013 on contract 025-10-01. There is a substantial amount of older residual sub-merchantable ash and some spruce and tamarack seedlings. The stand will continue to fill in over time.
13	4119 - Mixed Northern Hardwoods	Sawtimber Well	63.8	104	111-140	Very high quality hardwood stand. Stand was thinned on contract 023-96-01 between 1997 and 1999. There is quite a bit of beech within the stand, but I didn't see any beech scale. There is a drain that flows through the southeastern corner of the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	42250 - Pine, Oak	Sawtimber Poor	18.0	102	1-50	Stand was seed tree cut in 2011 on contract 025-10-01. Some oak and pine were marked to retain. The stand is 75% stocked, with about 30% of the stand being logs or poles and the rest is saplings. The remaining open areas are seeding in with pine.
16	6120 - Lowland Cedar	Sawtimber Well	11.5	117	111-140	The stand is primarily a lower quality cedar stand with some small pockets of other species. The cedar in the northwest part of the stand has mostly died out. There is a small creek/drain that flows through the center of the stand.
17	4139 - Aspen, Mixed Deciduous	Sapling Medium	37.2	6	1-50	Stand was seed tree cut in 2011 on contract 025-10-01. All White pine, hemlock, and yellow birch were retained. There were other various seed trees left, along with a dense patch of cedar in the center of the stand. The stand has regenerated well to aspen, with some of the remaining open areas filling in with spruce/fir. The majority of the cedar that was retained has blown over, including the dense patch. The red maple and oak stump sprouts have been heavily browsed by deer, causing significant mortality.
18	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	6.9	6	Immature	Stand was seed tree cut in Jan 2012 on contract 025-10-01. Scattered seed trees were left. The stand has regenerated very well, with a mix of spruce, tamarack, and balsam. The stand should be fully stocked by next entry.
19	6121 - Tamarack	Sapling Well	9.2	22	Immature	Stand was clearcut in 1996 on contract 023-96-01. The oak, pine, and beech were retained. The stand has fully regenerated. The lowland is primarily tamarack, with some spruce and the upland is mostly white pine and maple. The upland is along the southern edge.
20	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	14.3	104	51-80	Mixed mature stand of hardwood and pine, with younger aspen and spruce/fir. This stand is an upland ridge, with lower ground on each side. This stand needs to be harvested to regenerate all species.
21	4136 - Aspen, Mixed Conifer	Poletimber Well	30.2	42	1-50	Stand was cut between 1974 and 1980 on contract 56-74A. Some oak and pine were retained. Moderate quality aspen stand, with a significant conifer component. There are a number of lowland drains that flow through this stand.
23	4199 - Other Mixed Upland Deciduous	Sawtimber Well	91.7	96	81-110	Mature hardwood stand, with lower quality species. This stand was thinned in 2000-01 under contract 027-01-01. About 75% of the stand is upland, with the other 25% being low, containing ash. There are a number of lowland drains flowing through this stand. About 60 acres of this stand is lower quality hardwood with a dense understory of white pine. And the other 30 acres is a little higher quality hardwood. The lower quality area will be opened up releasing the white pine regeneration and allowing the hardwood and oak to stump sprout. The higher quality area will be thinned, trying to improve the quality.
25	4119 - Mixed Northern Hardwoods	Sawtimber Well	113.2	96	111-140	Stand is a mix of mature upland and lowland hardwood types. The largest part of the stand is upland. This stand provides a riparian corridor along the Menominee River. Most of the stand is about 5 chains wide, except where roads and natural features are used as the edge of the corridor.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	4130 - Aspen	Poletimber Well	10.3	42	1-50	Good quality aspen stand, with a dense understory of balsam fir. There isn't enough spruce/fir volume to harvest for spruce budworm.
28	4119 - Mixed Northern Hardwoods	Sawtimber Well	18.0	104	51-80	Good quality hardwood stand that was thinned in 2012 on contract 025-10-01. All A, P, and Fb were cut. After the sale was sold Hickory Decline came through and killed all of the hickory in the stand. We allowed the contractor to salvage the dead hickory, with a contract supplement. Deer have heavily browsed all of the aspen and hardwood sprouts, causing significant mortality.
29	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	16.8	120	111-140	This stand was strip cut in the 1970's. About half of the stand are the residual strips consisting primarily of cedar and the other half of the stand is a mix of younger spruce, tamarack, balm, and birch.
30	429 - Mixed Upland Conifers	Sawtimber Well	7.9	42	51-80	Dense spruce/fir stand with residual hardwood and pine. There isn't enough spruce/fir volume at this time to harvest the stand.
31	6115 - Lowland Ash	Poletimber Well	54.0	104	51-80	Overall low quality ash stand, with some pockets of better quality ash and red maple. The northern half of the stand is primarily black ash and the southern half has more green ash. If the emerald ash borer is identified near this compartment this stand should be harvested.
33	4130 - Aspen	Poletimber Well	65.4	31	1-50	Moderate to high quality aspen stand, with pockets of hardwood and conifer, and some small openings. A strip of this stand along Snakey Lake was retained as a buffer. Beavers have taken down the majority of aspen within a 200' strip along the northern and western edges in the past 5 to 8 years. There has been no recent activity. Stand was clearcut in 1987 on contract 19-85-01. The oak, beech, and some pine was retained.
34	6121 - Tamarack	Poletimber Medium	11.1	93	51-80	Mature tamarack stand, that has some pockets of mortality from the eastern larch beetle.
35	4119 - Mixed Northern Hardwoods	Sawtimber Medium	87.9	87	51-80	Moderate to high quality hardwood stand, with very little regeneration. Stand was thinned in 2011&12 on contract 031-10-01. The bitternut hickory died out of this stand and the surrounding area in 2011, from hickory decline. The stand was previously thinned in 1993 on contract 039-90-01. There is a significant amount of blowdown within the stand. There is no beech scale within the stand.
37	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	34.1	104	51-80	Mature high quality lowland hardwood stand, with very little regeneration. The stumps sprouts from the last harvest have been heavily browsed by deer, causing significant mortality. Stand was shelterwood cut in 2011&12 on contract 031-10-01. The bitternut hickory died out of this stand and the surrounding area in 2011, from hickory decline.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	42200 - Natural White Pine	Poletimber Medium	31.0	65	1-50	Stand was cut in 2011 on contract 031-10-01. All white pine, cedar, and hemlock were retained, along with the red pine less than 10 inches. The stand was previously thinned in 1995-96 under contract 043-95-1. The stand is very variable. About half of the stand has dense white pine poles and saplings and the other half has a mix of mature oak and pine with some aspen, maple, and spruce/fir regeneration.
39	4119 - Mixed Northern Hardwoods	Sawtimber Medium	28.4	91	1-50	Low quality hardwood stand, that is a mix of upland and lowland. The stand averages 40 to 50 BA. The understory is filling in with white pine and spruce/fir regeneration. The hardwood and aspen sprouts from the last harvest have been heavily browsed by deer, causing significant mortality. The stand needs to be opened up to release the existing regeneration and allow the hardwood species to stump sprout in full sunlight, allowing them to grow fast enough to make it past the deer. This stand was thinned between 2011 and 2013 on contract 031-10-01.
42	4199 - Other Mixed Upland Deciduous	Sawtimber Well	57.0	94	81-110	Mature red maple and oak stand. The maple is low quality and the oak is high quality. Overall the stand doesn't have enough quality to thin again, but the stand needs to be harvested before the vigor in the hardwood and oak has decreased too much to stump sprout. The advanced white pine regeneration also needs to be released before it becomes stunted. The eastern half of the stand has a dense understory of white pine regeneration. There is a possible oak wilt epi-center along the northern edge of the stand, treat it as funding is available. This stand was thinned in 2001 under contract 024-00-02.
44	4319 - Mixed Upland Forest	Sawtimber Well	17.3	94	51-80	Mature red oak with younger spruce/fir. Due to the high percentage of spruce/fir within the stand, this stand should be harvested due to threat of the spruce budworm. There is only minimal defoliation at this time. Stand was clearcut in 1982 on contract 25-80A. The pine, oak, and hemlock was retained.
45	4133 - Aspen, Mixed Pine	Sapling Medium	13.9	7	Immature	Stand is regenerating with a mix of aspen, oak, and a mix of conifers. There are some residual pine and oak. The open areas are filling in with conifers. Stand was clearcut in 2011 on contract 031-10-01. This stand was mechanically scarified in 2012, with a skidder on FTP W33-686. The scarification was done to regenerate pine and oak.
46	4130 - Aspen	Poletimber Well	5.2	36	1-50	Moderate quality aspen stand. In the center of the stand beavers have taken down a number of aspen in the past 5 to 8 years, but there is no recent activity. There is a possible oak wilt epi-center along the northern edge of the stand, treat it as funding is available.



Stand	Cover Type	Acres	Managed Site	General Comments:
8	122 - Road/Parking Lot	0.6	Yes	Sturgeon Landing Access Site to the Menominee River and parking lot.
9	500 - Water	4.3	No	Menominee River.
14	622 - Lowland Shrub	2.2	No	Lowland brush stand.
22	622 - Lowland Shrub	112.4	No	Lowland brush stand, with some pockets of merchantable ash. Some of the pockets could be separated out and harvested next entry when the adjacent stands are harvested. The stand is primarily tagalder and holly.
24	622 - Lowland Shrub	3.9	No	Lowland shrub stand with mostly tagalder and holly.
26	500 - Water	69.6	No	Menominee River.
32	500 - Water	12.0	No	Snakey Lake
36	622 - Lowland Shrub	7.6	No	Lowland brush stand, with some pockets/clumps and scattered maple and ash.
40	622 - Lowland Shrub	6.9	No	Lowland brush stand, primarily tagalder with some white pine seedlings and saplings scattered throughout.
41	622 - Lowland Shrub	36.4	No	Lowland brush stand, mostly tagalder with some clumps/patches of low quality ash and some scattered tamarack.
43	629 - Mixed non-forested wetland	21.9	No	Stand is a mix of lowland marsh grass and brush. During some wet years water ponds up in the center of the stand. This stand used to hold lots of water due to beaver activity, but over the years there hasn't been much activity so the dams have broken down allowing the water to flow into the river. The water used to be called Woesner Lake. There is still a substantial residual dam on the west end of the stand that is slowing down the flow of water from the west. This dam should be removed to allow water to flow freely into the river.