



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33102

Entry Year 2017

Acreage: 687

County Delta

Management Area: Dead Horse Moraines

Revision Date: 2015-07-10

Stand Examiner: Dan Racine

Legal Description:

T42N, R22W, Sections 2 and 11

Identified Planning Goals:

The major cover type within this compartment is northern hardwood that includes a large block of northern hardwood within compartments 101 and 102. The northern hardwoods within this compartment have been treated within the last 15 years and will be included with management within compartment 101. The treatments prescribed for harvest this treatment period include an open canopy area of the larger northern hardwood stand that will be clearcut and planted to spruce for potential deer cover within the hardwood complex. The hardwood stands prescribed for treatment to the east of the Friday/Elm creek are mixed sugar maple and red maple stands with the intention of regenerating the maple. One maple stand is prescribed for a selection harvest.

Soil and topography:

Soil series include Longrie, Carbondale, Cathro, Trenary, Sundell, Ensley, and Charleviox. Topography is gently rolling to mostly level.

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

This compartment is part of a block of state land south of E. Maple Ridge Road that is approximately 5000 acres. North and west of this compartment is state land. South and east of this compartment is private forestland managed for timber and recreational purposes.

Unique Natural Features:

None Known

Archeological, Historical, and Cultural Features:

None Known

Special Management Designations or Considerations:

The Friday Creek riparian corridor Special Management area is located in the northern part of the compartment.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This small compartment is predominantly northern hardwood forest of sugar maple and basswood. Friday creek flows through the north portion of this compartment and provides riparian habitat for many species of wildlife. Some small hardwood and lowland mixed conifer stands will be cut, and retention areas will include the best patches of cedar. Select harvesting activities will be conducted during the winter (Dec 1 – Mar 31) to enhance deer foraging resources. Thinning within poor-quality hardwood stands should encourage regeneration of spruce, white pine, hemlock, and balsam fir. A poor quality hardwood stand will be final harvested and planted with white spruce, which will enhance future deer winter cover. Several grassland openings will be maintained to provide food and early successional habitat for a variety of wildlife species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton Formation underlies the glacial drift. The Trenton is quarried for stone to the south, near Escanaba. There is no history of mineral leasing in the area. No active gravel pits are located in the area but there may be some potential in the compartment. No economic oil and gas production has been found in the UP.

Vehicle Access:

Access to this compartment is very good. Most of the compartment can be access from the Maki Road which runs through the middle of this stand. The northeast corner of this compartment is accessible but access is through private land.

Survey Needs:

Private line establishment will be required to establish the timber sale boundaries. Some survey corners may be needed to establish the private line boundaries.

Recreational Facilities and Opportunities:

There are no developed facilities within this compartment. There are plenty of opportunities for hunting.

Fire Protection:

The timber types in this compartment are not prone to fire. There is a water source nearby.

Additional Compartment Information:

**** Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:

Cover Type by Age Class

Cover Type by Management Objective

Compartment Volume Summary

Proposed Treatments – No Limiting Factors

Proposed Treatments – With Limiting Factors

**** The following information is displayed on the attached compartment maps:

Base feature information, stand numbers, cover types

Proposed treatments

Proposed road access system

Suggested potential old growth

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

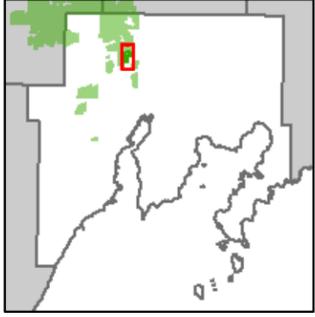


Age Class

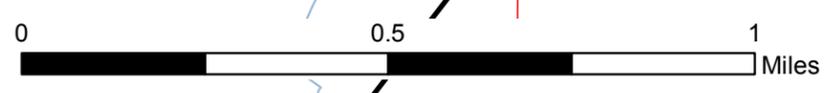
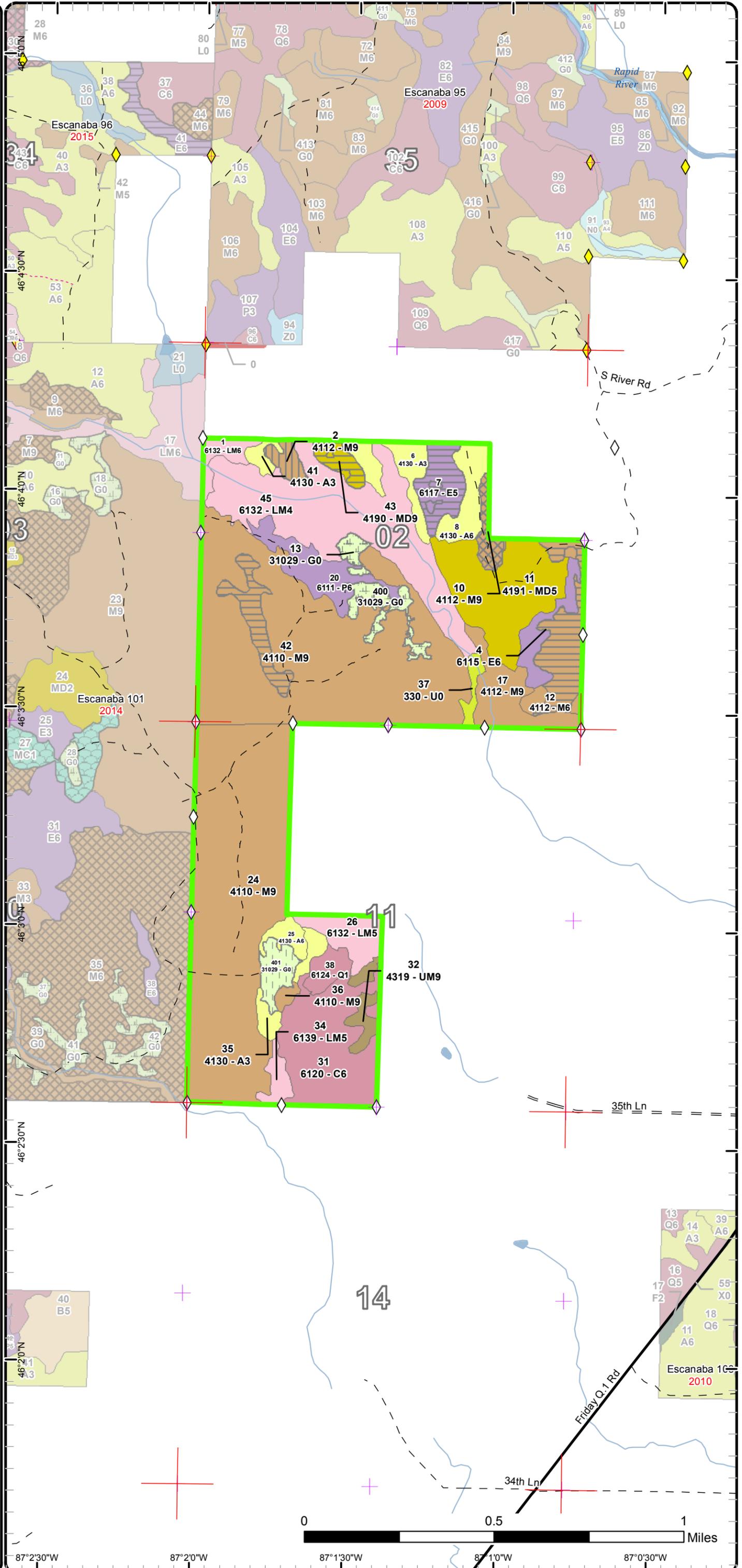
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	7	16	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	46	0	0	0	0	0	46
Herbaceous Openland	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Conifers	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Deciduous	0	0	0	0	0	0	0	13	10	0	0	0	0	0	0	0	0	0	23
Lowland Mixed Forest	0	0	0	0	0	0	12	0	83	0	0	6	0	0	0	0	0	0	101
Mixed Upland Deciduous	0	0	0	44	0	0	0	0	6	0	0	0	0	0	0	0	0	0	50
Northern Hardwood	0	0	0	0	0	0	0	20	352	0	0	0	0	0	0	0	0	0	372
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
Total	23	7	16	67	17	0	0	12	33	451	0	0	52	0	0	0	0	7	685

Cover Type & Treatments

Compartment: 102
 T42N R22W 02,11
 County: Delta
 Unit: Escanaba
 Mgmt Area: Dead Horse Moraines
 YOE: 2017
 Acres: 687 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 7/7/2015
 Map Phase: Pre-Review



- ✚ Remonumented Section Corner
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- Paved Roads
- == Gravel Roads
- - Poor Dirt Roads
- - - Trail (Non-Recreation)
- Rivers
- Lakes
- Treatments**
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Other Treatment - See Comments
- ▨ Opening Maintenance
- ▨ Shelter Wood (w/Reserves)
- Forest Covertypes**
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Covertypes**
- 310 - Herbaceous Openland
- 330 - Low Density Trees



87°2'30"W 87°2'0"W 87°1'30"W 87°1'0"W 87°0'30"W



Report 2 – Treatment Summary

Escanaba Mgt. Unit
Year of Entry: 2017

Acres of Harvest

Compartment 102
Total Compartment Acres: 687

Commercial Harvest - 0
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 20

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Deciduous	12	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	5	0	0	0	0	0	0	0	0	5
Northern Hardwood	33	6	0	0	5	0	0	0	0	43
Total	50	6	0	0	5	0	0	0	0	61

Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	61	0	0	0	0	0	0	20		81
Next Step	0	11	43	0	0	0	72	11	0	138
Total	61	11	43	0	0	0	72	11	20	218



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
2 33102002-Cut	4.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	81	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Two-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Leave a mix of maple with partial shade and retain approximately 20-30 BA, consider leaving some spruce seed trees to encourage conifer component. Winter cutting. No chipping.

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

Acceptable Maple. Acceptable regeneration of spruce, fir and aspen. Regen:

Other Previously thinned in 2001 with not much maple regeneration. More red maple than sugar maple on this stand. Currently aspen regeneration of west side of stand. Pockets of upland brush. Old next step comments:

Proposed Start Date: 10/1 /2016

7 33102007-Cut	12.4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	78	51-80	Harvest	Clearcut with Retention	6118 - Lowland Deciduous with Cedar	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut with retention: Cut all merchantable trees except elm. Leave retention pockets that capture cedar and areas with minimal merchantable volumes.

Next Step Treatments:

Acceptable Mixed lowland hardwood species with a mix of ash, maple, birch. Acceptable alternative regeneration of mixed conifer species. Regen:

Other This stand has areas of 0-25% canopy closure with non-merchantable ash and tag alder. Retention areas will capture cedar and non-merchantable areas. Access may be through north portion of stand 6 to the west or skid trail through stand 8 to the east. Old next step comments:

Proposed Start Date: 10/1 /2016

10 33102010-Cut	5.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	87	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Selection: Retain approximately 60BA throughout and create larger 100 foot canopy gaps where feasible. Favor to leave minor component species. Winter cutting and no chipping.

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

Acceptable Maple, mixed northern hardwood species. Regen:

Other This stand has not been treated for the last two treatment periods. The basal area ranges from 70-110 BA on 4 plots. The private property to the east has been clearcut. Old next step comments:

Proposed Start Date: 10/1 /2016

12 33102012-Cut	21.1	4112 - Maple, Beech, Cherry Association	Poletimber Well	80	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut with retention: Cut all merchantable trees, leaving retention pockets in areas of aspen regeneration. Winter cut and no chipping. Leave some spruce/fir seed trees if feasible.

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

Acceptable Mixed northern hardwood species and aspen. Acceptable regeneration of balsam fir, and spruce. Regen:

Other Mix of red maple with sugar maple and pockets of aspen regeneration mainly to the southern portion of stand. Old next step comments:

Proposed Start Date: 10/1 /2016



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	33102013-NF	3.4	31029 - Grass (OI)	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: Yes

Site Condition:

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

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

42	33102042-3- New	11.4	4110 - Sugar Maple Association	Sawtimber Well	87	81-110	Harvest	Clearcut	42310 - Planted Spruce	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut- Cut all trees within the treatment area.
Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Other
Treatments:

Acceptable White spruce.
Regen:

Other Plant the harvest area post site prep to white spruce. Check with TMS to require chipping or add FTP for burning to remove the slash. Old next
Comment: step comments:

Proposed Start Date: 10/1 /2016

43	33102043-Cut	5.4	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	87	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut with retention: Cut all trees except leave retention in a higher cedar volume area. Winter cut and no chipping.
Specs:

Next Step
Treatments:

Acceptable Aspen, maple, spruce, fir, birch, and ash.
Regen:

Other Pocket of black ash within the stand. Very large diameter and over mature stand with much of the aspen component gone. The retention areas
Comment: on the map are approximate. The exact locations will be decided at time of sale prep following in-stand retention guidelines. Old next step comments:

Proposed Start Date: 10/1 /2016

400	33102400-NF	8.7	31029 - Grass (OI)	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes

Site Condition:

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

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



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
401	33102401-NF	7.8	31029 - Grass (OI)	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Proposal

Habitat Cut: Yes

Site Condition:

Prescription Farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw removal of
Specs: competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment
 Acreage Proposed: 80.6**

Report 5 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment: 102
Year of Entry: 2017

Availability for Management

Total Acres	Acres		Dominant Site Conditions	1C	3G	3J	5C
	Available	Not Available					
40	40	0	Aspen				
46	46	0	Cedar				
20	20	0	Herbaceous Openland				
3	0	3	Low-Density Trees			3	
17	17	0	Lowland Aspen/Balsam Poplar				
6	6	0	Lowland Conifers				
23	13	10	Lowland Deciduous				10
102	78	24	Lowland Mixed Forest	6	5		12
50	50	0	Mixed Upland Deciduous				
372	369	3	Northern Hardwood		3		
7	7	0	Upland Mixed Forest				
687	647	40	Total Forested Acres	6	8	3	22
	94%	6%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Potential harvest with stand 17							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is a part of the Friday creek riparian corridor. The Friday creek runs through the middle of the stand.							

Report 5 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment: 102
Year of Entry: 2017

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Look to treat with larger stand 24 and islands of 32 and 36 next treatment period.							
4	Unavailable	3G: Other Influence zones - See comments	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Portion of the Friday creek riparian corridor. Harvesting is feasible here to creek edge with a lighter harvest along the creek.							
5	Unavailable	1C: Other dept or div proc/practices	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is a part of the Friday creek riparian corridor. Provides wildlife value along the Friday creek.							
6	Unavailable	3G: Other Influence zones - See comments	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Potential treatment in a few pockets when the larger stand 24 is harvested.							



Report 6 – 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
Forest Service Pit Comments Federal owned mineral rights	Mineral Resource Area	Sand or Gravel Pit	Proposed SCA	0
Friday Creek Riparian Corridor Comments This stand is within the Friday Creek riparian area which and provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.	Habitat Areas or Corridors	Habitat Corridor	Proposed SCA	80
Friday Creek Riparian Corridor Comments This stand is within the Friday Creek riparian area which and provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.	Habitat Areas or Corridors	Habitat Corridor	Proposed SCA	80
Friday Creek Riparian Corridor Comments This stand is within the Friday Creek riparian area which and provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.	Spring-Seeps, Riparian Areas	Spring Seep	Proposed SCA	80
Unspecified Comments This stand is within the Friday Creek riparian area which provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek. Wet, small stand, semi open. Lowland hardwood (E2) understory. Cattails in spots.	Other SCA		SCA Removal	4
Unspecified Comments This stand is within the Friday Creek riparian area which and provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.	Other SCA		Proposed SCA	4
Unspecified Comments This stand is within the Friday Creek riparian area which and provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.	Other SCA		Proposed SCA	59
Unspecified Comments This stand is within the Friday Creek riparian area which provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.. Low and wet. Mostly Black Ash and Balm. Small Black Ash in the narrow part of the stand.	Other SCA		SCA Removal	3
Unspecified Comments This stand is within the Friday Creek riparian area which provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.	Other SCA		Proposed SCA	4



Report 6 – 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
Unspecified	Other SCA		Proposed SCA	1
Comments				
This stand is within the Friday Creek riparian area which provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.. Low and wet. Mostly Black Ash and Balm. Small Black Ash in the narrow part of the stand.				
Unspecified	Other SCA		SCA Removal	2
Comments				
This stand is within the Friday Creek riparian area which and provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.				
Unspecified	Other SCA		SCA Removal	0
Comments				
This stand is within the Friday Creek riparian area which and provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.				
Unspecified	Other SCA		SCA Removal	0
Comments				
This stand is within the Friday Creek riparian area which and provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.				
Unspecified	Other SCA		SCA Removal	0
Comments				
This stand is within the Friday Creek riparian area which and provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.				
Unspecified	Other SCA		Proposed SCA	0
Comments				
This stand is within the Friday Creek riparian area which and provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.				
Unspecified	Other SCA		Proposed SCA	0
Comments				
This stand is within the Friday Creek riparian area which and provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.				
Unspecified	Other SCA		SCA Removal	0
Comments				
This stand is within the Friday Creek riparian area which and provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.				



Report 6 – 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
Unspecified	Other SCA		SCA Removal	2
Comments				
This stand is within the Friday Creek riparian area which provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.				



Report 7 – 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	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	6.0	119	51-80	OPIC - FMD: This stand is within the Friday Creek riparian area which provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek.
2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.6	81	81-110	Treated in 2001, contract number 33-015-97-01 "3rd Times a Charm". Stand was marked and thinned. Aspen (A3) in portions of the understory (south and southwest). Upland brush in portions of this stand. East and southeast more balsam in the understory.
4	6115 - Lowland Ash	Poletimber Well	9.8	83	81-110	Previous inventory with 1930 year of origin. Low wet area with 6-8" dbh black ash. Consider treatment with stand 17 next treatment period. Balsam poplar and aspen along edge into stand 11 and 12.
6	4130 - Aspen	Sapling Well	12.9	14	Immature	This stand was harvested during the winter of 2001 under contract number 33-015-97-01 "3rd Times a Charm". Open areas with spruce and fir on the south finger of the east side of stand 6.
7	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	13.1	78	51-80	Poor quality site with 50-75% canopy and full understory of sub-canopy species.
8	4130 - Aspen	Poletimber Well	12.6	29	Immature	This stand was harvested in 1986 under contract number 33-028-84-01 "Dog Leg Balsam" unit 1.
10	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.9	87	81-110	Mix of sugar and red maple. The private to the east was clearcut.
11	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	44.2	27	Unspecified	Upland area that did not regenerate very well following the timber harvest. Area is filling in with balsam and spruce and some patches of aspen (A3) also. This stand was harvested under contract number 33-028-84-01 Dog Leg Balsam. Open areas with A3/6 pockets and F3/6 pockets.
12	4112 - Maple, Beech, Cherry Association	Poletimber Well	24.6	80	51-80	Treated in 2001 under the 3rd times a charm sale 33-15-97-01 in 2001. All aspen, white birch, balm, balsam fir, spruce were cut. Hardwoods were marked. Pockets of aspen regeneration.
17	4112 - Maple, Beech, Cherry Association	Sawtimber Well	19.7	78	81-110	This stand was harvested in 2001 under contract number 33-015-01-01 3rd times a charm sale. Portion of creek runs through west side of stand.
20	6111 - Lowland Balsam Poplar	Poletimber Well	17.1	30	51-80	This stand was harvested in 1985 under contract number 33-015-83-01 "Smith Balsam". This stand has small scattered openings within it.
24	4110 - Sugar Maple Association	Sawtimber Well	143.8	87	81-110	This stand was harvested fall of 2004 under contract number 33-002-02-01 "102 Part Two". The BA average among 9 points is 85.5. Trace amount of butternut, red maple, and elm.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	4130 - Aspen	Poletimber Well	4.9	27	81-110	BA ranges from 90-150. This stand was harvested winter of 1986-1987 under contract number 33-054-83-01 "Butternut Hardwoods".
26	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	12.5	65	51-80	Somewhat low ground. Northwest corner is a pocket of cedar with large yellow birch, white spruce, and black ash. The southeast portion was included with stand 32. Full understory of balsam fir and mixed species with scattered overstory of paper birch, cedar, mixed deciduous and mixed conifer. Look at treating with stand 32 and larger stand 24 to make harvest worthwhile and increase the volume of balsam fir.
31	6120 - Lowland Cedar	Poletimber Well	46.4	116	171-200	Predominately cedar in the north part of the stand and as you go south stand has more birch mixed in. Small island of balm on south end. Smaller as you go south.
32	4319 - Mixed Upland Forest	Sawtimber Well	6.6	116	81-110	Ridges of hardwood within a cedar type with mostly cedar between the ridges. The north piece was broken out of stand 26 with more red maple and less cedar than the south piece. Balsam understory. Look to treat this with stand 36 and larger stand 34 making this stand worthwhile to harvest.
34	6139 - Mixed Lowland Forest	Poletimber Medium	5.2	82	51-80	Stand is filling in with red maple, balsam fir, balm, and ash. Small area of cattails (NW). BA ranges from 30-100.
35	4130 - Aspen	Sapling Well	6.8	3	Immature	Treated in 2012 under permit 330181102, Second half sale. Winter harvest. This stand was part of the 2011 additional acreage.
36	4110 - Sugar Maple Association	Sawtimber Well	1.9	87	81-110	This stand was harvested fall of 2004 under contract number 33-002-02-01 "102 Part Two". This stand is similar to stand 24. Harvest with larger hardwood stand 24 when that is ready. Three plots average 93 BA ranging from 50-130.
38	6124 - Lowland Spruce-Fir	Sapling Poor	6.4	25	Immature	Very poorly stocked stand. Mostly an L type. Mixed reproduction of tamarack, spruce, balsam, birch, black ash.
41	4130 - Aspen	Sapling Well	3.0	13	Immature	This stand was treated in 2001 under contract number 33-015-97-01 "3rd Times a Charm". Was part of stand 2 but when sale was prepared this stand was treated different due to the amount of aspen in it. North end of stand is a3 with the south end dropping into white spruce, balsam fir, red maple, paper birch, and some black cherry.
42	4110 - Sugar Maple Association	Sawtimber Well	171.6	87	81-110	This stand was treated in 2003, under contract 33-011-00-01 "Maki Road Hardwoods". Open areas within this stand. Some under-planting of white pine and/or hemlock, mainly in the more open areas. Few pine seedlings found within enclosures. Within treatment area species found were balm, sugar maple, red maple, ironwood, white spruce, balsam fir, and elm. The BA ranges were from 50-100.

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Report 8 – Forested Stands

Compartment: 102
Year of Entry: 2017



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	5.9	87	81-110	Very mixed stand Aspen, balsam, white birch, red maple, spruce, and some cedar. Aspen will not be a component much longer. Club moss, braken fern. Very large DBH aspen. Trace amounts of red maple and hazel in the understory.
45	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	78.0	81	1-50	This stand is within the Friday Creek riparian area which and provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek. Mix of 0-25% with lowland brush and flooding to 75-100 pockets of cedar and black ash areas. Other species include yellow birch, elm, hardwoods along the edge and lowland brush.



Stand	Cover Type	Acres	Managed Site	General Comments:
13	31029 - Grass (OI)	3.4	No	Scattered spruce, aspen, and balm about 5-10 feet tall.
37	330 - Low-Density Trees	3.5	No	This stand is within the Friday Creek riparian area which and provides a wildlife travel corridor. SCA value is riparian buffer along Friday Creek. Scattered cedar, white spruce, maple on edge, tag alder, balm, with overall less than 25% cover type.
400	31029 - Grass (OI)	8.7	No	MAPLE AND FIR ENCROACHING.
401	31029 - Grass (OI)	7.8	No	Aspen encroaching. Small island of ironwood and hardwood in the center of the opening. Scattered balsam fir, paper birch,