



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 75

Entry Year 2015

Acreage: 1,920

County Delta

Management Area: Green Bay Lake Plain

Revision Date: 06/24/2013

Stand Examiner: Dan Racine

Legal Description:

T37N, R24W, SECTIONS 28, 29, 30

Identified Planning Goals:

The majority of the lowland cover type within this compartment is cedar and the other lowland cover types are mixed deciduous and coniferous. The majority of the upland cover type is hemlock with a mix of pine, spruce, and mixed deciduous species. The other upland cover types within this compartment are a mix of upland conifer and deciduous species. The treatments in the lowland cover types are within mixed lowland conifer stands and mixed deciduous species with cedar and within black spruce stands. The treatments within the mixed lowland conifer and deciduous stands with less cedar cover type percentage are clearcuts with reserves designed to regenerate the existing overstory mix of species. The lowland stands with a higher percentage of cedar and hemlock are selection harvests removing the shorter lived species and some of the cedar and hemlock volumes to facilitate the regeneration of the existing overstory species. The black spruce stands are seed tree harvests. The majority of the treatments within the upland cover types is within the mixed hemlock/pine and hemlock/deciduous stands. The treatments within these cover types are selection harvests designed to regenerate the pine and hemlock. Several treatments have been done in the past within this and adjacent compartments to the north with good success of hemlock regeneration.

Soil and topography:

The terrain throughout this block is generally flat with intermittent ridges which are generally oriented in an east and west direction. The soil is generally sandy throughout the compartment. The better soils, mostly the hardwood types are the Oway fine sandy loams. The remaining area is a complex mixture of poorly drained soils, mostly Roscommon sands, associated with the Carbondale mucks and several intermittent Rubicon sand ridges.

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

This block of state land is surrounded by additional state land to the north, south, west, with private and state land bordering the east.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till and lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Limestone underlies the glacial drift. The Trenton is quarried for stone just west of Escanaba. This Compartment has not been previously leased for metallic exploration. A gravel pit is located in Section 28 and there appears to be potential. No economic oil and gas production has been found in the UP.

Vehicle Access:

Access is good for this compartment, as the Limpert road and Seven Mile Marsh roads are located within this block.

Survey Needs:

None

Recreational Facilities and Opportunities:

Hunting, trapping, camping opportunities are plentiful within this compartment. The Forest Islands ORV trail is located within this compartment which provides for the opportunity of four wheeling throughout this compartment.

Fire Protection:

If a fire should get started in this area, the road system that runs through this area should allow access to keep the fire potential small.

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**

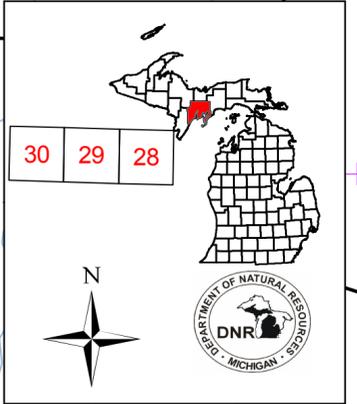
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatment Map

Compartment: 075
 T37N R24W
 28 29 30
 County: Delta
 Unit: Escanaba
 YOE: 2015
 Acres: 1,920 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 07/22/2013
 Map Phase: Pre-Review

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- Miris Corners
- ORV Trails
- ORV Routes
- ORV Trail
- ORV Route
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- Selection (Group, Single Tree)
- Other Treatment - See Comments

Forest Stands

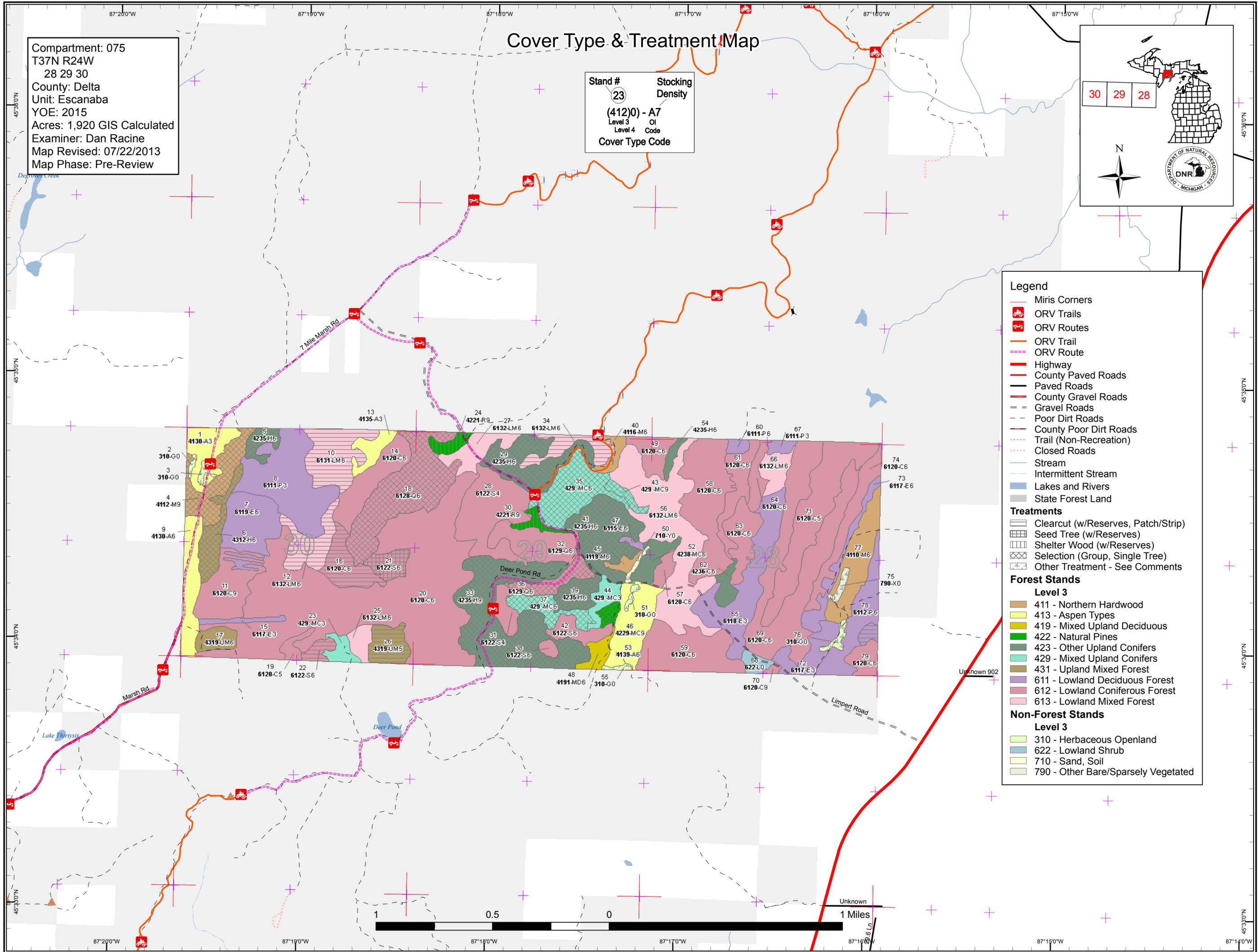
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

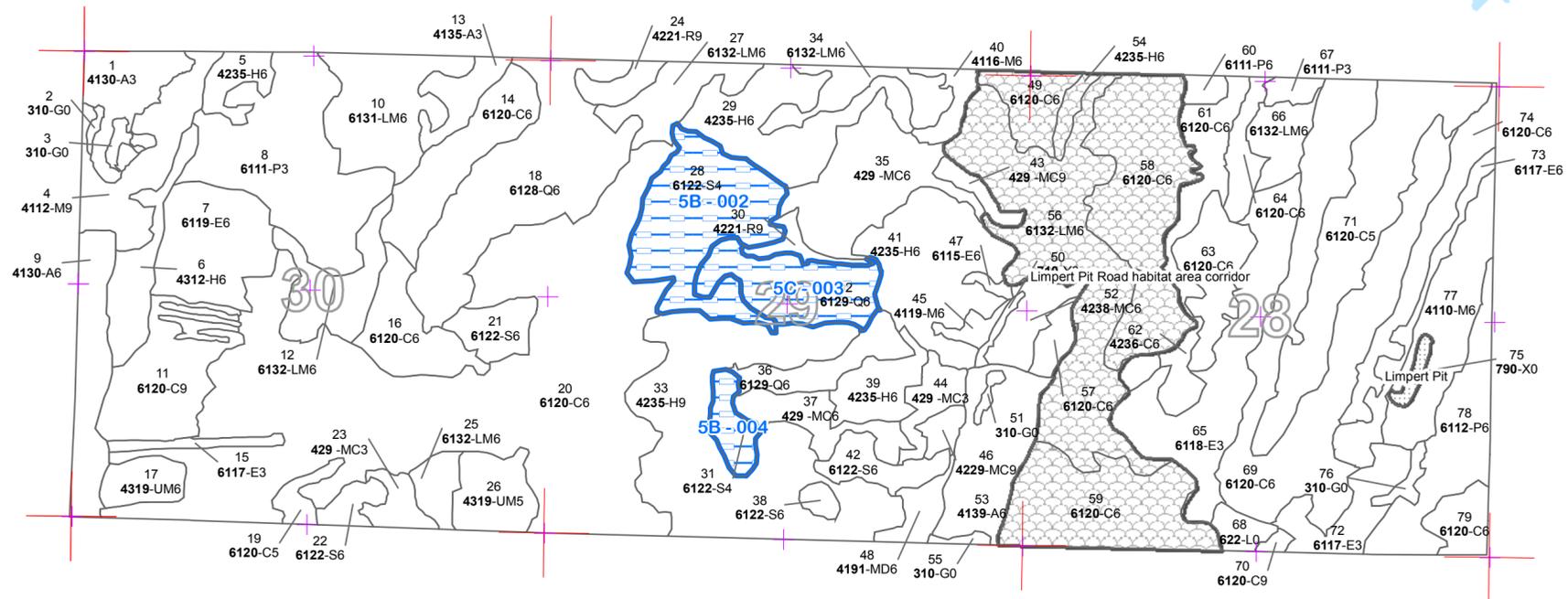
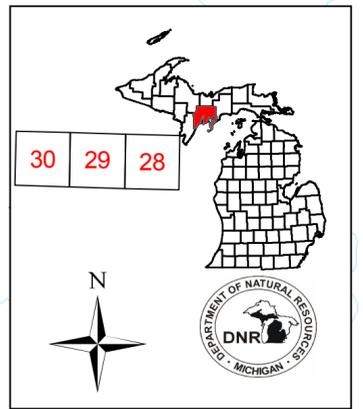
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 710 - Sand, Soil
- 790 - Other Bare/Sparsely Vegetated



Special Conservation Areas & Site Conditions Map

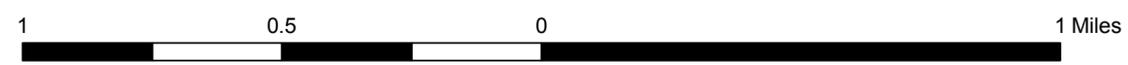
Compartment: 075
 T37N R24W
 28 29 30
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 Examiner: Dan Racine
 Map Revised: 07/22/2013
 Map Phase: Pre-Review

Stand #
 23
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- Miris Corners
- Stand Boundaries
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Site Condition Type
- Available Factors W/ Constraints
 - 5B: Retention for regeneration purposes
 - 5C: Delay treatment for age/size class diversity or exceptional site quality
- Reviewable SCAs
 - ▨ Proposed SCA
 - ▨ SCA Removal
- Cold Water Streams
- Cold Water Streams



87°20'0"W 87°19'0"W 87°18'0"W 87°17'0"W 87°16'0"W 87°15'0"W

45°35'0"N 45°34'0"N 45°33'0"N

45°35'0"N 45°34'0"N 45°33'0"N

Report 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	0	31	0	33	26	0	0	0	0	0	0	0	0	0	91
Bare/Sparsely Vegetated	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Cedar	0	0	0	0	0	0	0	0	0	421	119	150	34	0	724
Hemlock	0	0	0	0	0	0	0	0	0	0	27	162	38	0	227
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Aspen/Balsam Poplar	0	70	34	3	0	0	0	0	0	0	0	0	0	0	107
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	70	15	29	0	114
Lowland Deciduous	0	71	0	59	0	0	0	0	2	0	0	0	0	0	132
Lowland Mixed Forest	0	0	0	0	0	0	0	22	106	0	24	12	35	0	200
Lowland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Spruce/Fir	0	0	0	0	0	0	12	15	9	57	0	0	0	0	93
Mixed Upland Deciduous	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5
Northern Hardwood	0	0	6	4	0	0	0	62	0	0	0	0	0	0	72
Red Pine	0	0	0	0	0	0	0	0	0	0	0	12	0	0	12
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	10	7	0	0	0	0	0	0	0	0	72	0	0	89
Upland Mixed Forest	0	0	0	0	10	0	0	17	0	0	0	0	0	0	27
Total	20	182	48	107	37	0	12	115	117	478	245	422	136	0	1920



Report 2 – Proposed Treatment Summaries

Escanaba Mgt. Unit
Year of Entry 2015

Compartment 075
Total Compartment Acres: 1,920

Acres by Treatment Type

Commercial Harvest - 545 Tree Planting - 0 Other - 0
 Habitat Cut - 0 Opening Maintenance - 14

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Lowland Coniferous Forest	28	85	11	0	0	0	124
Lowland Deciduous Forest	4	0	0	0	0	0	4
Lowland Mixed Forest	72	0	0	0	0	0	72
Mixed Upland Conifers	0	60	0	0	0	0	60
Natural Pines	0	5	0	12	0	0	16
Northern Hardwood	0	29	0	0	0	0	29
Other Upland Conifers	0	205	0	0	0	0	205
Upland Mixed Forest	17	18	0	0	0	0	35
Total	121	401	11	12	0	0	545



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	33075004-Cut	28.8	4112 - Maple, Beech, Cherry Association	High Density Log	73	81-110	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<u>Prescription</u> Selection harvest- Retain approximately 60 BA and create some larger canopy gaps throughout the stand. Leave all the hemlock.										
<u>Specs:</u>										
<u>Other</u> The stand is a mix of 90-110 BA and a mix of sugar maple/red maple.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals. Expect a mix of maple and conifer regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
5	33075005-Cut	9.0	42350 - Upland Hemlock	High Density Pole	108	81-110	Harvest	Group Selection	42350 - Upland Hemlock	Cmpt. Review Proposal
<u>Prescription</u> Group Selection- Harvest the maple, birch, and other shorter lived species. The hemlock will be marked to cut within the patches of harvested										
<u>Specs:</u> timber and retained where the hemlock volume are the highest.										
<u>Other</u> Areas that are dominated by hemlock will be left out of the harvest.										
<u>Comments:</u>										
<u>Next</u> Monitor regeneration at appropriate intervals. Expect maple and birch regeneration. Monitor for any hemlock regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
6	33075006-Cut	18.2	4312 - Hemlock, Mixed Deciduous	High Density Pole	108		Harvest	Group Selection	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal
<u>Prescription</u> Group Selection- Harvest the shorter lived species and mark out the hemlock and pine within these areas. Leave out any areas that are mostly										
<u>Specs:</u> hemlock. May leave some wildlife trees.										
<u>Other</u> This stand is approximately 50% hemlock.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals expecting maple and birch regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
10	33075010-Cut	35.1	6131 - Hemlock, White Pine, Maple, Birch	High Density Pole	125	111-140	Harvest	Clearcut with Reserves	6131 - Hemlock, White Pine, Maple, Birch	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves- Cut all trees, staying out of the heaviest cedar and hemlock areas for retention purposes. Leave a few scattered white										
<u>Specs:</u> pine outside the retention areas.										
<u>Other</u> This stand is higher to shorter lived species vs. the hemlock and pine type.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals. Expect birch, maple, ash, and mixed conifer regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12	33075012-Cut	22.1	6132 - Mixed Lowland Forest with Cedar	High Density Pole	74		Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves- Leave a retention patch where the cedar volumes are the highest, cut everything else.										
<u>Specs:</u>										
<u>Other</u> Overmature paper birch, red maple, and black spruce.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals. Expect aspen, birch, and mixed conifer regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
16	33075016-Cut	22.1	6120 - Lowland Cedar	High Density Pole	106		Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves- The pockets of the heaviest cedar will be left out for retention and cut the rest.										
<u>Specs:</u>										
<u>Other</u> The west half of the stand is more to overmature aspen, paper birch, red maple, and balsam fir.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals. Expect mixed deciduous and conifer regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
18	33075018-Cut	69.9	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	109		Harvest	Single Tree Selection	6131 - Hemlock, White Pine, Maple, Birch	Cmpt. Review Proposal
<u>Prescription</u> Selection- Remove the shorter lived species and leave out the heaviest cedar areas for retention. Mark through the hemlock areas down to approximately 130 BA and create canopy gaps of approximately 1/2 the height of the existing canopy.										
<u>Specs:</u>										
<u>Other</u> The hemlock areas will vary in residual BA as well as the size of the canopy gaps depending upon species composition and height of the canopy. The access will be through stand 24. Most likely a winter sale.										
<u>Comments:</u>										
<u>Next</u> Monitor regeneration at appropriate intervals. Expect pine and mixed deciduous regeneration. Monitor for hemlock regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
21	33075021-Cut	11.5	6122 - Black Spruce	High Density Pole	75		Harvest	Seed Tree with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Seed tree with reserves- Leave clumps of approximately 10 trees of a mix of species spaced evenly throughout the stand.										
<u>Specs:</u>										
<u>Other</u> This stand has approximately 10% cedar.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals. Expect black spruce regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22	33075022-Cut	6.0	6122 - Black Spruce	High Density Pole	95		Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut with reserves- Leave a retention patch where the ridge of pine/cedar through the middle is. Cut all other trees outside this retention area.</p> <p><u>Specs:</u></p> <p><u>Other</u> There is enough black spruce surrounding this stand for a clearcut here.</p> <p><u>Comments:</u></p> <p><u>Next</u> Monitor the regeneration at appropriate intervals. Expect black spruce regeneration.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2014</p>										
24	33075024-Cut	6.3	42210 - Natural Red Pine	High Density Log	110	81-110	Harvest	Shelterwood	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Shelterwood- Harvest the stand down to approximately 30 BA throughout. Leave all the hemlock.</p> <p><u>Specs:</u></p> <p><u>Other</u> The short term cover type objective is mixed pine. The understory is a mix of red pine, white pine and balsam fir, heaviest to white pine. Open the stand up to allow existing regeneration to recruit into stand.</p> <p><u>Comments:</u></p> <p><u>Next</u> Monitor the regeneration at appropriate intervals. Expect white pine red pine and mixed conifer regeneration.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2014</p>										
26	33075026-Cut	16.7	4319 - Mixed Upland Forest	Medium Density Pole	73	1-50	Harvest	Clearcut with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut with reserves- Cut all trees with the exception: Leave a retention patch with higher cedar volumes. Leave a few scattered pine seed trees.</p> <p><u>Specs:</u></p> <p><u>Other</u> This stand was part of the Hemlock regeneration sale with too much overstory left. Trace amount of red maple regeneration. Mix of an upland/lowland site.</p> <p><u>Comments:</u></p> <p><u>Next</u> Monitor the regeneration at appropriate intervals. Expect maple, and mixed conifer regeneration.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2014</p>										
29	33075029-Cut	38.3	42350 - Upland Hemlock	High Density Pole	127		Harvest	Single Tree Selection	42200 - Natural White Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Selection harvest- Harvest the stand down to approximately 130 BA throughout and create canopy gaps throughout of approximately 1/2 the height of the existing canopy.</p> <p><u>Specs:</u></p> <p><u>Other</u> This stand was last cut under the hemlock regeneration sale with existing canopy gaps. New gaps will be created and no expansion of the existing gaps. The residual BA and size of the canopy gaps will be variable depending upon species composition and height of the existing canopy.</p> <p><u>Comments:</u></p> <p><u>Next</u> Scarify stand in the gaps if feasible. Consult the TMS. Monitor the regeneration at appropriate intervals. Consult TMS for hemlock regeneration monitoring. Expect white pine and some red pine regeneration in the gaps with scattered hemlock seeding underneath.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2014</p>										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
30 33075030-Cut	5.3	42210 - Natural Red Pine	High Density Log	112	81-110	Harvest	Shelterwood	42290 - Natural Mixed Pine	Cmpt. Review Proposal

Prescription Shelterwood harvest- Retain approximately 30 BA opening up for existing regeneration. Leave all hemlock.
Specs:

Other Mix of pine and spruce/fir regeneration. This stand was treated under the hemlock regeneration sale.
Comments:

Next Monitor the regeneration at appropriate intervals. Expect pine and mixed conifer regeneration.
Steps:

Proposed
Start Date: 10/01/2014

33 33075033-Cut	96.2	42350 - Upland Hemlock	High Density Log	110		Harvest	Single Tree Selection	42200 - Natural White Pine	Cmpt. Review Proposal
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Prescription Selection harvest- Retain approximately 130 BA throughout the stand and create canopy gaps of approximately 1/2 the height of the existing canopy.
Specs:

Other Cut under the hemlock regeneration sale with the gaps to the west of the Deer Pond Road. Existing hemlock regeneration of variable sizes in the existing gaps. Creating new gaps and no expansion of the existing gaps. The amount of the residual BA and size of the canopy gaps will vary depending upon the overstory composition and height of the existing canopy.
Comments:

Next Consult with TMS about the feasibility of scarifying the new gaps. Monitor the regeneration at appropriate intervals expecting mixed pine and conifer regeneration. Check the amount of any seeding of hemlock.
Steps:

Proposed
Start Date: 10/01/2014

34 33075034-Cut	15.0	6132 - Mixed Lowland Forest with Cedar	High Density Pole	83		Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
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Prescription Clearcut with reserves- Cut all the ash greater than 6 inches dbh and leave a retention area of higher cedar volumes.
Specs:

Other
Comments:

Next Monitor the regeneration at appropriate intervals, expect mixed deciduous and conifer regeneration.
Steps:

Proposed
Start Date: 10/01/2014

35 33075035-Cut	39.3	429 - Mixed Upland Conifers	High Density Pole	110	81-110	Harvest	Single Tree Selection	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Selection- Cut the shorter lived species and retain approximately 130 BA throughout creating canopy gaps in the hemlock/pine areas of approximately 1/2 the height of the existing canopy.
Specs:

Other Stand not treated previously. Very little understory. The amount of the residual BA and size of the canopy gaps will vary depending on the overstory composition and height of the canopy.
Comments:

Next Monitor the regeneration at appropriate intervals. Expect pine regeneration and mixed conifer and deciduous regeneration. Look at the feasibility of scarifying within the gaps. Check with TMS.
Steps:

Proposed
Start Date: 10/01/2014



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
36 33075036-Cut	14.6	6129 - Mixed Coniferous Lowland Forest	High Density Pole	110		Harvest	Single Tree Selection	6129 - Mixed Coniferous Lowland Forest	Cmpt. Review Proposal

Prescription Selection- Cut all ash greater than 6 inches dbh staying out of the lowest black ash areas. Leave a retention area that is heaviest to cedar volumes. Leave a few or all of the white pine for seed trees. All other trees will be cut except the hemlock which will only be those hemlock necessary to harvest other species.

Other Comments: This stand is extremely variable with a mix of 75-85% hemlock areas and areas with no hemlock and some cedar mixed in. The cedar retention will be best identified at time of sale prep. Outside of the retention area all acres will be treated.

Next Steps: Monitor the regeneration at appropriate intervals. Expect mixed coniferous and deciduous regeneration.

Proposed Start Date: 10/01/2014

37 33075037-Cut	15.7	429 - Mixed Upland Conifers	High Density Pole	110	141-170	Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Selection harvest- Retain approximately 110-120 BA throughout creating canopy gaps throughout the stand of approximately 1/2 the height of the existing canopy.

Other Comments: The amount of residual BA and size of the canopy gaps will vary depending upon the species composition and height of the existing canopy.

Next Steps: Monitor stand for regeneration at appropriate intervals. Check with TMS for feasibility of scarification in the gaps. Expect pine regeneration and look for hemlock seeding in the gaps.

Proposed Start Date: 10/01/2014

39 33075039-Cut	14.7	42350 - Upland Hemlock	High Density Pole	110		Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Selection- Harvest the birch, spruce, maple and other short lived species. Retain the drainage area with the smallest timber. Mark through the hemlock and pine areas creating canopy gaps in these areas of 1/2 the height of the canopy. The residual BA should be higher in the areas dominated by hemlock closer to 100 BA and lower in pockets dominated by pine closer to 30-40BA.

Other Comments: Variable stand with a drainage of smaller timber. May leave a few spruce seed trees. The residual BA and size of the canopy gaps will vary depending on the overstory composition and height of the canopy.

Next Steps: Monitor regeneration at appropriate intervals. Expect some mixed pine regeneration in the gaps and potential for seeding of the hemlock. Check with TMS about feasibility of scarifying the gaps.

Proposed Start Date: 10/01/2014

41 33075041-Cut	46.6	42350 - Upland Hemlock	High Density Pole	112		Harvest	Single Tree Selection	42200 - Natural White Pine	Cmpt. Review Proposal
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Prescription Selection- Harvest this stand down to approximately 110-130 BA throughout creating canopy gaps of approximately 1/2 the height of the existing canopy. Mostly stay out of the hardwood pockets.

Other Comments: There is red pine here as well. The canopy gaps created will be new gaps and not an expansion of the existing gaps. The residual BA and size of the gaps will vary depending upon the species composition and height of the existing canopy.

Next Steps: Check with the TMS for feasibility of scarifying in the gaps. Monitor the regeneration at appropriate intervals, expect pine regeneration and check for hemlock seeding in the gaps.

Proposed Start Date: 10/01/2014



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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43 33075043-Cut	5.1	429 - Mixed Upland Conifers	High Density Log	110	81-110	Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Selection- Harvest this stand throughout retaining approximately 60-80 BA creating canopy gaps of approximately 1/2 the height of the existing canopy.
Specs:

Other This stand was treated and some hemlock regeneration in the open areas but browsing by deer. The residual BA and size of the canopy gaps
Comments: will vary depending upon the overstory species composition and height of the existing canopy.

Next Monitor the regeneration at appropriate intervals. Check with the TMS for feasibility of scarification. Expect pine regeneration and potentially
Steps: some seeding of the hemlock.

Proposed
Start Date: 10/01/2014

46 33075046-Cut	4.5	42290 - Natural Mixed Pine	High Density Log	104	81-110	Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Selection- Harvest the stand to approximately 80-100 BA in the plantation area on the east side and 60-80BA throughout the rest. Create canopy
Specs: gaps of approximately 1/2 the height of the existing canopy.

Other The size of the gaps will vary depending upon the species composition and height of the existing canopy.
Comments:

Next Monitor the regeneration at appropriate intervals and check with the TMS about the feasibility of scarifying in the gaps.
Steps:

Proposed
Start Date: 10/01/2014

78 33075078-Cut_small	3.7	6112 - Lowland Aspen	High Density Pole	26		Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
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Prescription Clearcut with reserves- Leave the cedar, cut all other trees.
Specs:

Other This is a small piece of the larger stand that was not cut previously. There is a mix of ash, maple, and aspen. The year of origin is 1968 for the
Comments: uncut piece but it is mostly older than that.

Next Monitor the regeneration at appropriate intervals. Expect aspen, balm, and mixed deciduous/conifer regeneration.
Steps:

Proposed
Start Date: 10/01/2014

2 NF_33075002-NonFor	1.1	3102 - Grass				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
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Prescription Enhance and perpetuate opening. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard
Specs: or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be to provide forage, brood rearing, and recreational opportunities.

Other
Comments:

Next
Steps:

Proposed
Start Date: Unspecified

3 NF_33075003-NonFor	2.1	3102 - Grass				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
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Prescription Enhance and perpetuate opening. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard
Specs: or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be to provide forage, brood rearing, and recreational opportunities.

Other
Comments:

Next
Steps:

Proposed
Start Date: Unspecified



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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50 NF_33075050-NonFor	1.9	710 - Sand, Soil				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
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Prescription Enhance and perpetuate opening. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard
Specs: or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be to provide forage, brood rearing, and recreational opportunities.

Other
Comments:

Next
Steps:

Proposed
Start Date: Unspecified

51 NF_33075051-NonFor	1.6	3102 - Grass				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
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Prescription Enhance and perpetuate opening. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard
Specs: or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be to provide forage, brood rearing, and recreational opportunities.

Other
Comments:

Next
Steps:

Proposed
Start Date: Unspecified

55 NF_33075055-NonFor	1.5	3102 - Grass				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
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Prescription Enhance and perpetuate opening. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard
Specs: or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be to provide forage, brood rearing, and recreational opportunities.

Other
Comments:

Next
Steps:

Proposed
Start Date: Unspecified

75 NF_33075075-NonFor	3.0	790 - Other Bare/Sparsely Vegetated				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
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Prescription Enhance and perpetuate opening. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard
Specs: or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be to provide forage, brood rearing, and recreational opportunities.

Other
Comments:

Next
Steps:

Proposed
Start Date: Unspecified



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
76 NF_33075076-NonFor	3.2	3102 - Grass				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal

Prescription: Enhance and perpetuate opening. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard
Specs: or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be to provide forage, brood rearing, and recreational opportunities

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

Total Treatment Acreage Proposed: 559.4



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type!

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

**Total Treatment
Acreage Proposed: 0**

Report 5 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment 075
Year of Entry 2015

Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5C	5B
	Available	Not Available				
91	91		Aspen	91		
724	724		Cedar	724		
227	227		Hemlock	227		
107	107		Lowland Aspen/Balsam Poplar	107		
114	114		Lowland Conifers	85	29	
132	132		Lowland Deciduous	132		
200	200		Lowland Mixed Forest	200		
93	93		Lowland Spruce/Fir	32		60
8	8		Mixed Upland Deciduous	8		
5	5		Natural Mixed Pines	5		
72	72		Northern Hardwood	72		
12	12		Red Pine	12		
89	89		Upland Conifers	89		
27	27		Upland Mixed Forest	27		
1,900	1,900		Total Forested Acres	1,810	29	60
	100%		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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Available	5B: Retention for regeneration purposes	51				
Comments: This stand is currently regenerating from the harvest. Existing canopy are seed trees.							
003	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29				
Comments:							

Report 5 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment 075
Year of Entry 2015

004	Available	5B: Retention for regeneration purposes	9
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Comments:

The overstory are seed trees left from the previous harvest.



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
Limpert Pit	Mineral Resource Area	Sand or Gravel Pit	SCA	2.9
Comments				
Area was expanded for additional gravel				
Limpert Pit Road habitat area corridor	Habitat Areas or Corridors	Habitat Corridor	SCA Removal	212.4
Comments				



Report 7 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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

Conservation Area	Type	Description
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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:
4130 - Aspen	High Density Sapling	20.7	12		This stand was cut under the crowing rooster sale.
4112 - Maple, Beech, Cherry Association	High Density Log	28.8	73	81-110	This stand was last treated in 2001 under the crowing rooster hardwood sale. Heavy understory of balsam fir and beech in places.
42350 - Upland Hemlock	High Density Pole	9.0	108	81-110	
4312 - Hemlock, Mixed Deciduous	High Density Pole	18.2	108		
6119 - Mixed Lowland Deciduous Forest	High Density Pole	38.9	30		Strip cut area. Hard to tell the difference between the strips that were cut and leave strips. Look at cutting with other strip cuts next treatment period. Some strips werer heavy to balm and aspen and others were paper birch and red maple.
6111 - Lowland Balsam Poplar	High Density Sapling	65.9	10		Phragmites in this stand. Cut in 2003 under the bent arrow balm sale. Most of the cedar left is on the ground.
4130 - Aspen	High Density Pole	26.4	46		Cut next treatment period.
6131 - Hemlock, White Pine, Maple, Birch	High Density Pole	35.1	125	111-140	Second age was on a red maple. West side more hemlock than cedar with red maple, paper birch, white spruce. The east side is cedar with ash, paper birch and red maple.
6120 - Lowland Cedar	High Density Log	34.0	121		Could not get an age on the cedar with borer. Trace amounts of white spruce and white pine in the canopy.
6132 - Mixed Lowland Forest with Cedar	High Density Pole	22.1	74		
4135 - Aspen, Cedar	High Density Sapling	10.7	12		Second age on cedar. This stand was cut under the crowing rooster hardwood sale.
6120 - Lowland Cedar	High Density Pole	29.0	106		
6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	4.9	37		Fully stocked strip cut. Look to cut next treatment period along with the other strips in this compartment.
6120 - Lowland Cedar	High Density Pole	22.1	106		Second age on an aspen.
4319 - Mixed Upland Forest	High Density Pole	10.2	41	81-110	This stand was cut under the deer pond sale in 1996 with upland spruce and fir and white pine left for seed. Variable ages and sizes with the overstory is the residual from the sale and the understory is the regeneration. Trace amounts of sugar maple and green ash.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	69.9	109		Mix of upland and lowland ground. Access will be through low ground as a winter sale.
19	6120 - Lowland Cedar	Medium Density Pole	5.2	98		This stand is currently regenerating cut under the deer pond sale as a seed tree. Nice regeneration here. Possible removal of overstory next treatment period or wait until understory is ready. The canopy call is the result of the residual from the treatment but the stand is still a mixed lowland conifer type.
20	6120 - Lowland Cedar	High Density Pole	258.8	98		Second age on a paper birch. Trace amounts of hemlock and balsam fir. Second age on a paper birch.
21	6122 - Black Spruce	High Density Pole	11.5	75		Nice black spruce with scattered cedar and paper birch.
22	6122 - Black Spruce	High Density Pole	6.0	95		Small stand with black spruce surrounding the stand.
23	429 - Mixed Upland Conifers	High Density Sapling	7.2	27		Trace of hemlock and sugar maple in the super canopy.
24	42210 - Natural Red Pine	High Density Log	6.3	110	81-110	Selection harvest was completed in 2009 under the hemlock regeneration sale.
25	6132 - Mixed Lowland Forest with Cedar	High Density Pole	7.8	105		A piece uncut from that was not cut in the hemlock regeneration sale with ash and cedar.
26	4319 - Mixed Upland Forest	Medium Density Pole	16.7	73	1-50	Part of the hemlock regeneration sale. All the aspen, balm, balsam fir, and spruce were cut and all hwdws 10" dbh and more. Pine was thinned. Trace amount of red maple stump sprouting with deer browse. Removal cut last time. Mixed upland/lowland site.
27	6132 - Mixed Lowland Forest with Cedar	High Density Pole	16.7	105		Small diameter.
28	6122 - Black Spruce	Low Density Pole	51.0	90		Second age from TCR for black spruce seedlings.
29	42350 - Upland Hemlock	High Density Pole	38.3	127		Regeneration monitor after no snow.
30	42210 - Natural Red Pine	High Density Log	5.3	112	81-110	Stand was treated under the hemlock regeneration sale.
31	6122 - Black Spruce	Low Density Pole	9.2	89		This stand was treated in the winter of 2009 under the hemlock regeneration sale. Seed trees were left approximately every 50 feet.
32	6129 - Mixed Coniferous Lowland Forest	High Density Pole	29.0	127		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	42350 - Upland Hemlock	High Density Log	96.2	110		Second age on a red pine. Several hemlock 3-5 foot tall and 15-20 foot tall in regeneration gaps on the west side of the Deer Pond Road. Some sugar maple about 20 feet.
34	6132 - Mixed Lowland Forest with Cedar	High Density Pole	15.0	83		Tamarack and spruce in stand declining or dead.
35	429 - Mixed Upland Conifers	High Density Pole	39.3	110	81-110	Majority of stand is hemlock, white pine and red pine. Scattered paper birch, red maple throughout stand. Not treated previously.
36	6129 - Mixed Coniferous Lowland Forest	High Density Pole	14.6	110		Second age on a paper birch and red maple. A ridge of lowland along the west and spruce in the center. Extremely variable stand.
37	429 - Mixed Upland Conifers	High Density Pole	15.7	110	141-170	Pocket of pine to the south.
38	6122 - Black Spruce	High Density Pole	3.1	78		Cut this stand with pre-inventory 44 next treatment period. 5-7 inch dbh. Small 7 inch diameters.
39	42350 - Upland Hemlock	High Density Pole	14.7	110		
40	4116 - Mixed N. Hardwood - Aspen	High Density Pole	6.5	27	51-80	
41	42350 - Upland Hemlock	High Density Pole	46.6	112		Second age on a white pine.
42	6122 - Black Spruce	High Density Pole	11.9	65		Trace amounts of cedar and tamarack. Small diameter black spruce.
43	429 - Mixed Upland Conifers	High Density Log	5.1	110	81-110	Stand appears to have been treated with some areas of hemlock regeneration in the open areas, with deer browsing.
44	429 - Mixed Upland Conifers	High Density Sapling	9.7	16		Cut in 97 under the M-1 hardwoods sale. Hemlock and cedar ridge.
45	4119 - Mixed Northern Hardwoods	High Density Pole	3.8	38	1-50	38 year old red maple.
46	42290 - Natural Mixed Pine	High Density Log	4.5	104	81-110	Red pine plantation on the top of the hill that is 1945 year of origin and 68 years old. Mix of pine and hemlock on the bottom of the hill.
47	6115 - Lowland Ash	High Density Pole	1.7	81		Tag alder wet areas.
48	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	7.8	35	111-140	Second age on a hemlock. Look to cut this stand with stand 55 next treatment period.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	6120 - Lowland Cedar	High Density Pole	13.8	114		SCA stand that needs removal.
52	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	12.1	118	81-110	Small pocket of hardwood that was thinned. North part of stand is filling in with white pine in understory and south part w.p,balsam fir,balsam poplar and ash.
53	4139 - Aspen, Mixed Deciduous	High Density Pole	32.9	37		Trace amounts of black cherry and paper birch in the overstory. This stand was cut under permit 15-74a. Cut next treatment period.
54	42350 - Upland Hemlock	High Density Pole	4.1	110		This stand could be treated with compartment 76 to the north.
56	6132 - Mixed Lowland Forest with Cedar	High Density Pole	91.3	83		The second age was on a green ash. Pockets of no merchantability.
57	6120 - Lowland Cedar	High Density Pole	6.1	106		This stand was treated with the short lived species removed.
58	6120 - Lowland Cedar	High Density Pole	58.2	112		
59	6120 - Lowland Cedar	High Density Pole	47.0	111		This was an SCA stand.
60	6111 - Lowland Balsam Poplar	High Density Pole	3.5	39		
61	6120 - Lowland Cedar	High Density Pole	19.5	111		The cut strips consist of (15%)balsam fir (40%) paper birch, (30%)balm (5%) red maple (10%)green ash. Cut with other strips in the compartment probably next treatment period.
62	42360 - Upland Cedar	High Density Pole	7.4	106		Area was left when stand was last treated.
63	6120 - Lowland Cedar	High Density Pole	20.7	106		Big cedar that mostly is hollow. Ground is a mix of upland and lowland.
64	6120 - Lowland Cedar	High Density Pole	9.7	115		
65	6118 - Lowland Deciduous with Cedar	High Density Sapling	53.3	13		Phragmites located in area south of Limpert Road. All cedar was left with blowdown in spots.
66	6132 - Mixed Lowland Forest with Cedar	High Density Pole	11.9	117		A left out portion from the wacky wednesday sale with black ash and cedar.
67	6111 - Lowland Balsam Poplar	High Density Sapling	3.8	11		Lots of blowdown cedar. This stand was treated in 2002 under contract 33-008-98-01. All balm and paper birch cut. Some cedar was cut to allow operator room. Yellow birch and ash <12 inches dbh were left.

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Escanaba Mgt. Unit

Report 8 – Forested Stands

Compartment: 075
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
69	6120 - Lowland Cedar	High Density Pole	97.8	97		black ash and cedar.
70	6120 - Lowland Cedar	High Density Log	1.5	113		Could not age the cedar. This stand was cut through in 94-95.
71	6120 - Lowland Cedar	Medium Density Pole	59.5	97		113 on previous oi year of origin.
72	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	18.1	13		This stand was cut in the winter of 2000 under the bent arrow balm sale. All balm,paperbich,balsam fir/spruce with 3 or more sticks and hardwood 10inches and greater. No hemlock and cedar were cut.
73	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	15.5	36		Lots of blowdown.
74	6120 - Lowland Cedar	High Density Pole	23.6	106		Pockets of blowdown.
77	4110 - Sugar Maple Association	High Density Pole	33.3	77	51-80	This stand was last cut in 2008 under the limpert pit sale.
78	6112 - Lowland Aspen	High Density Pole	34.2	26		The treatment portion of the stand is a 1968 year origin but its older. Cedar and maple is older.
79	6120 - Lowland Cedar	High Density Pole	9.9	106		Trace amount of balm.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	3102 - Grass	1.1	Yes	Unspecified	
3	3102 - Grass	2.1	Yes	Unspecified	
50	710 - Sand, Soil	1.9	No	Unspecified	
51	3102 - Grass	1.6	N/A	Unspecified	
55	3102 - Grass	1.5	N/A	Unspecified	
68	6229 - Mixed lowland shrub	5.7	No	Unspecified	
75	790 - Other Bare/Sparsely Vegetate	3.0	N/A	Unspecified	Limpert pit
76	3102 - Grass	3.2	N/A	Unspecified	