

Compartment Review Presentation

Newberry Forest Management Unit

Compartment 57
Entry Year 2016

Acreage: 1,987
County Chippewa

Management Area: Whitefish Vermillion Point

Revision Date:

Stand Examiner: Ryan Mattila

Legal Description:

T49N R7W Sections 3 & 4

T49N R7W Sections 3 & 4, T50N R7W Sections 33, 34, 35, & 36

Identified Planning Goals:

Recreation, timber, and wildlife are the main uses of this area. The goal is to manage for all of these simultaneously and to provide, enhance and perpetuate their uses.

Soil and topography:

The upland areas in the compartment are comprised mostly of Deer Park sand and Rousseau sand. The forest cover types associated with these soils are mainly jack pine and red pine with some isolated areas of northern hardwoods, aspen, and white pine. The lowland areas are mostly Dawson and Loxley peats along with Kinross-Wainola Comlex. The forest cover type in these lowland areas is a treed bog. Along the Betsy River is Markey and Carbondale muck with lowland brush and mixed swamp conifer as the cover type. The topography is level in the lowland areas and rolling in the upland areas with a steep slope down to the Betsy River corridor.

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

The compartment is almost entirely state owned with a couple of small private parcels. The majority of the land adjacent to the compartment on the south side is state owned with numerous small private parcels, ranging from 10 to 40 acres, to the south and west. The Companions of Christ the Lamb church camp borders the compartment to the north of Sections 35 and 36. Land use in the area is primarily recreational use (hunting, snowmobiling, fishing, berry picking) with several small seasonal camps. Development is still minimal in the area with the largest development being the church camp to the north.

Unique Natural Features:

MNFI lists an extensive high quality muskeg in Sections 35 and 36.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

Management activities near the Betsy River will follow all BMP guidelines and any special considerations developed concerning the waterway.

Watershed and Fisheries Considerations:

Fisheries Values: Good

Fisheries Concerns: The Betsy River which skirts the northern edge of the compartment is a designated trout stream downstream to the Widewaters. Brook trout are present in this portion of the river and does provide some fishing opportunities although limited due to access. Any treatments in stands near the river need to adhere to a minimum buffer of 100 feet.

Wildlife Habitat Considerations:

Compartment 57 lies in northern Chippewa county in the Grand Marais Sandy End Moraine and Outwash ecological subsubsection. The compartment lies within the Whitefish Vermillion Point Management Area and moose, piping plover, red crossbill and spruce grouse are featured species in the compartment. The western portion of the compartment is largely aspen and jack pine. The central portion has a fairly good mix of jack pine, upland hardwoods, aspen, low areas, swamp conifers, and white pine stands. The far eastern areas are dominated by treed bogs with jack pine islands. Pre-settlement data are consistent with current vegetation patterns.

Maintaining as much structural diversity as possible in managed stands will be important to achieving wildlife objectives. Retaining soft and hard mast producing species and red and white pine in jack pine final harvests will provide food sources,

nest and den trees, and improve stand diversity. Conifers and hard mast producing species will be left in aspen final harvests to provide similar benefits. Wildlife species potentially using this compartment include white-tailed deer, snowshoe hare, spruce and ruffed grouse, black bear, gray wolves, and moose.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel, peat and muck and an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was used as a building stone in the past. Gravel pits are not located in the area and potential appears to be limited. There is no economic oil and gas production in the UP.

Vehicle Access:

Access to the compartment can be gained via the Maple Block Road (county road), the East Tower-Betsy River Road, and the Farm Truck Trail. The Maple Block Road is maintained by the Chippewa County Road Commission. Several unimproved forest roads and two track roads transect the compartment providing ample access. Roads in this area are sandy and can become difficult to pass in extended dry periods. The East Tower-Betsy River Road diminishes in quality through Section 36.

Survey Needs:

Section 3 will need some corner work to complete the timber sale work.

Recreational Facilities and Opportunities:

The East Tower – Betsy River Road and the Maple Block Road are part of the groomed snowmobile trail system. Other recreational opportunities in the area include hunting, fishing, berry picking, and hiking. There is a fair amount of summer recreation as a result of the number of camps in the area.

Fire Protection:

Compartment is in the Whitefish Zone Dispatch Area. Response time is an issue for potentially larger fires on days of high fire danger. Access is good in upland areas. The lowland areas in this compartment will be challenge suppression efforts and may require modifed suppression tactics. Risk to private property would be high because of the potential for large fire growth.

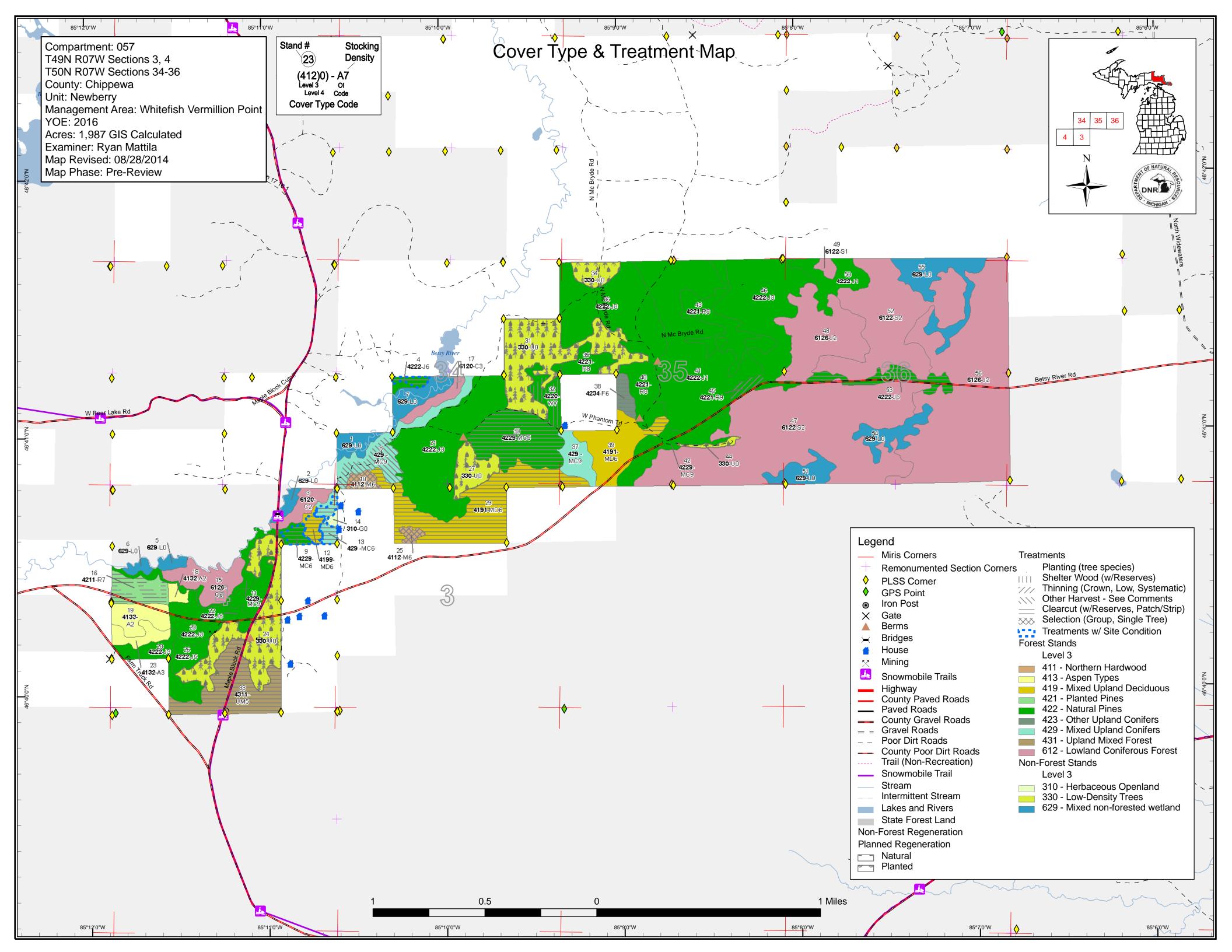
Additional Compartment Information:

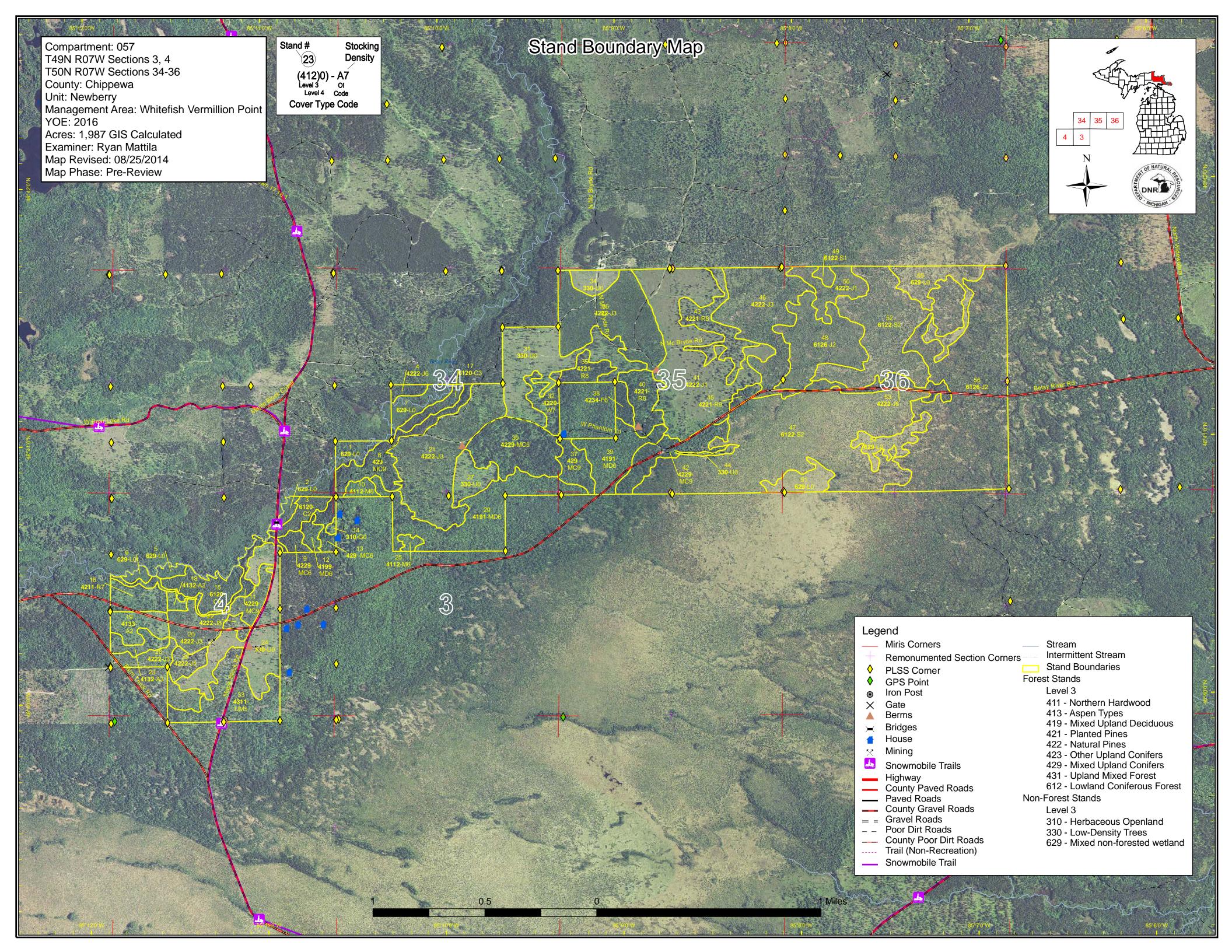
The following reports from the Inventory are attached:

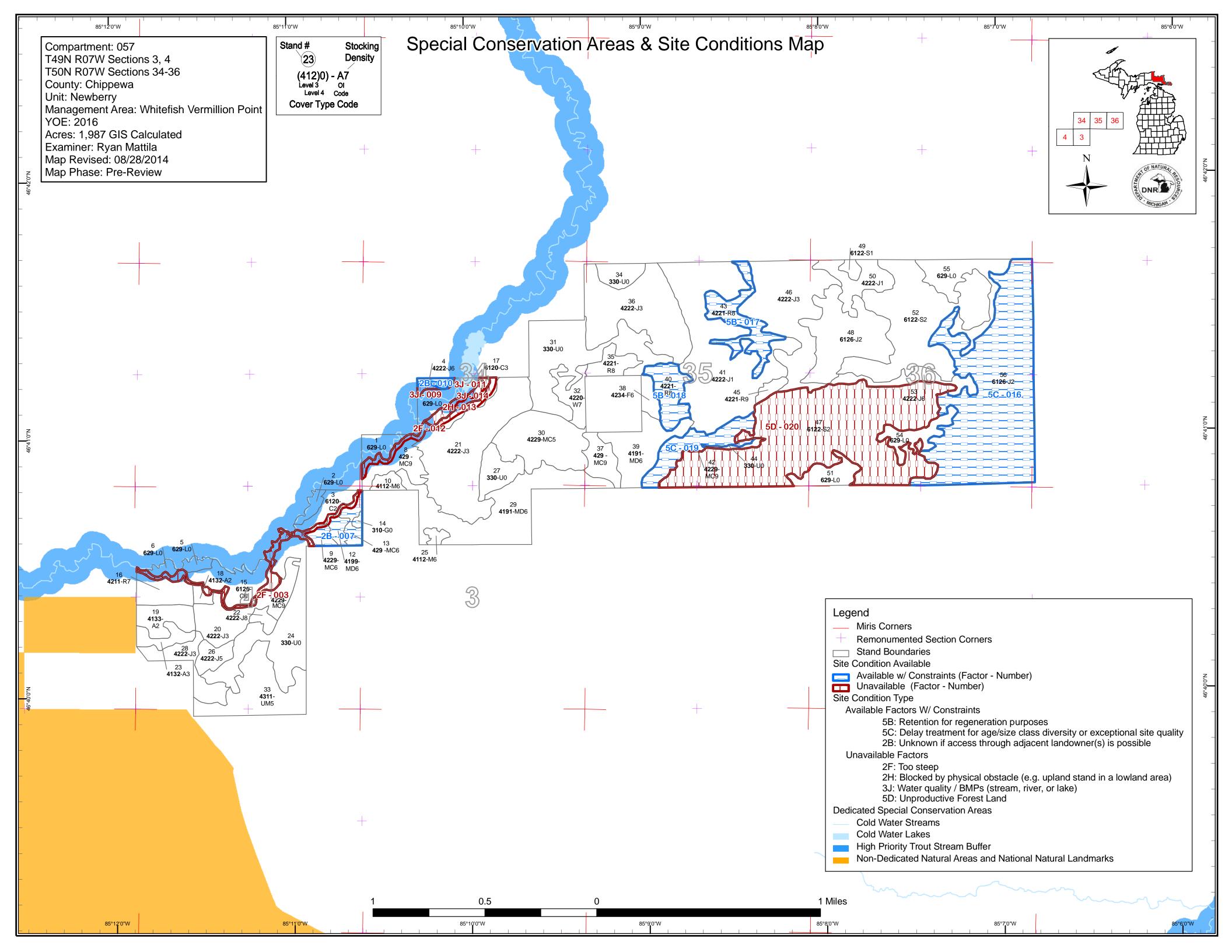
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Compartment 057 Year of Entry 2016

Newberry Mgt. Unit Ryan Mattila : Examiner



						Age	Class									
		6.0	70.79	Park /		AD PO	\$ / S	\$0.00	10° /	Or Son	86.78	on a	70,70	, o , , , , , , , , , , , , , , , , , ,	S /	, do
Aspen	19	14	0	0	0	0	0	0	0	0	0	0	0	0	34	
Cedar	0	0	0	0	0	0	0	0	9	0	26	12	0	0	48	
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Jack Pine	137	241	171	5	11	0	209	5	0	18	0	0	0	0	798	
Low-Density Trees	176	0	0	0	0	0	0	0	0	0	0	0	0	0	176	
Lowland Shrub	111	0	0	0	0	0	0	0	0	0	0	0	0	0	111	
Lowland Spruce/Fir	0	0	4	113	0	0	0	0	0	0	0	0	0	235	351	
Mixed Upland Deciduous	0	0	0	0	0	0	125	0	0	0	0	0	0	0	125	
Natural Mixed Pines	0	0	0	0	0	0	0	22	54	0	31	0	0	0	107	
Northern Hardwood	0	0	0	0	0	0	4	0	0	6	0	0	0	0	10	
Red Pine	0	0	0	0	0	0	0	31	55	0	5	0	0	0	92	
Upland Conifers	0	0	0	0	0	0	16	0	42	0	0	0	0	0	58	
Upland Mixed Forest	0	0	0	0	53	0	0	0	0	0	0	0	0	0	53	
Upland Spruce/Fir	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8	
White Pine	0	0	0	0	0	0	0	16	0	0	0	0	0	0	16	
Total	445	255	174	118	64	0	362	74	161	24	62	12	0	235	1987	



Report 2 – Proposed Treatment Summaries

Newberry Mgt. Unit Year of Entry 2016

Compartment 057 Total Compartment Acres: 1,987

Acres by Treatment Type

Commercial Harvest - 294

Tree Planting - 177

Other - 0

Habitat Cut - 0

Opening Maintenance - 0

Cover Type by Harvest Method

			Cov	er ıyı	pe by i	arves	st Wetr	ioa	
		/	Control of	Signal of	1,0° 5	OO	Children Ord		A COS
Mixed Upland Conifers		8	0	0	0	0	18	26	
Mixed Upland Deciduous		90	0	0	0	0	0	90	
Natural Pines		81	0	0	10	5	0	96	
Northern Hardwood		0	10	0	0	0	0	10	
Other Upland Conifers		8	0	0	0	0	0	8	
Planted Pines		13	0	0	0	0	0	13	
Upland Mixed Forest		53	0	0	0	0	0	53	
	Total	252	10	0	10	5	18	294	

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 057 Year of Entry 2016

DEPARTME	DNR MICHIGAN
	MICHIGAN

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8	42057008- Cut_exp-0	17.9	429 - Mixed Upland Conifers	High Density Log	87		Harvest	Other - Specify in Comments	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal

<u>Prescription</u> Clearcut all tree species but white pine, red pine, and hemlock. Mark red and white pine to 100 BA. Green tree some birch and aspen, 1 per acre <u>Specs:</u> in areas where it is not likely to regenerate well.

<u>Other</u>

Comments:

Next Do regen servey, any mix of tree species is acceptable regen.

Steps:

S

<u>Proposed</u>

Start Date: 10/01/2015

1042057010-Cut6.24112 - Maple,
Beech, CherryHigh
Density92111-140HarvestSingle Tree411 - NorthernCmpt. Review
SelectionAssociationPole

Prescription Mark to harvest to 80 BA, make sure to leave most hemlock cut only what is needed for maneuverability.

Specs:

Other Comments:

Comments.

Next Do regen servey, any mix of tree species is acceptable regen.

Steps:

<u>Proposed</u>

Start Date: 10/01/2015

42057016-Cut 12.6 42110 - Planted 75 51-80 Harvest Clearcut with 42140 - Planted Cmpt. Review 16 Low Red Pine Density Log Reserves Mixed Pine Proposal

Prescription Clearcut to remove Red pine overstory, leave 50' strip on east side of stand for retention. (treatment shape already adjusted)

Specs:

Other Comments:

Next Trench and plant to Mixed Pine, mostly red pine with some white pine, herbicide to discourage aspen regeneration within 300 feet of Betsy

Steps: River.

Proposed

Start Date: 10/01/2015

25 42057025-Cut 3.7 4112 - Maple. High 60 111-140 Harvest Single Tree 411 - Northern Cmpt. Review Beech, Cherry Density Selection Hardwood Proposal

Association Pole

Prescription Mark to harvest to 80 BA, leave any oak and hemlock if it exists to maintain structural and species diversity for wildlife.

Specs:

Other Comments:

Next Do regen servey, any mix of tree species is acceptable regen.

Steps:

Proposed

Start Date: 10/01/2015

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 057
Year of Entry 2016

DNR DNR

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
29	42057029-Cut	80.6	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	60		Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

<u>Prescription</u> Clearcut to regenerate, during stand set up, red line areas larger that 2 ac that are more than 20% sugar maple and mark to 80 ba. Leave all <u>Specs:</u> oak, hemlock and leave a tree/acre of mixed species throughout the stand to maintain species diversity for wildlife.

Other Comments:

Next Do regen servey, any mix of tree species is acceptable regen.

Steps:

<u>Proposed</u>

Start Date: 10/01/2015

30 42057030-Cut 54.3 42290 - Natural Medium 81 Harvest Clearcut with 42260 - Natural Cmpt. Review . Proposal Mixed Pine Pine, Mixed Density Reserves Deciduous

<u>Prescription</u> Clearcut leaving all red pine, any oak, hemlock if it exists and one white pine or spruce for every 2 acres harvested for retention. If natural regen

Specs: fails , due to PR land, discuss next steps with wildlife.

Other Comments:

Next Scarify after harvest. Do regen servey, any mix of tree species is acceptable regen.. If natural regen fails, due to PR land, discuss next steps

with wildlife.

Steps: Proposed

Start Date: 10/01/2015

42057032-Cut 9.8 42200 - Natural 51-80 Harvest Shelter Wood 42290 - Natural 32 I ow 71 Cmpt Review White Pine Density Log with Reserves Mixed Pine Proposal

<u>Prescription</u> Mark to cut, target the multi stemed white pine to release and encourage regeneration and improve stand form. Target residual BA of 30. The <u>Specs:</u> harvest is being prescribed to promote regeneration to a more fully stocked stand. Regenerating species in the more fully stocked stand will be

beneficial to wildlife.

<u>Other</u>

Comments:

Do regen servey, any mix of tree species is acceptable regen.

Next Steps:

Proposed

Start Date: 10/01/2015

Harvest 42260 - Natural Cmpt. Review 33 42057033-Cut 52.8 4311 - Pine, Aspen Medium 42 Clearcut with Density Mix Reserves Pine, Mixed Proposal Pole Deciduous

Prescription Clearcut, leave all oak and spruce for species and structural diversity for wildlife, do not cut all mutli-stemmed pine trees to benefit wildlife.

Specs:

Other Comments:

Next Do regen servey, any mix of tree species acceptable regen, if regen fails plant to mixed pine mostly red pine with some white pine

Steps:

<u>Proposed</u>

Start Date: 10/01/2015

Compartment: 057 Newberry Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2016 with No Limiting Factor s t а **Treatment** Acres CoverType Size BA **Treatment Treatment Cover Type** Approval n Density Method Objective **Status** d Name Age Range Type 42340 - Upland Clearcut with 42340 - Upland Cmpt. Review 42057038-Cut 7.7 High 60 Harvest 38 Spruce/Fir Density Reserves Spruce/Fir Proposal Pole Prescription Clear cut to regenerate, reserve 1 tree per acre of spruce for retention. Specs: Other Comments: <u>Next</u> Do regen servey, any mix of tree species is acceptable regen. Steps: **Proposed** Start Date: 10/01/2015 39 42057039-Cut 3.7 4191 - Mixed High 60 Harvest Clearcut 413 - Aspen Cmpt. Review **Upland Deciduous** Proposal Density with Conifer <u>Prescription</u> Clearcut aspen pocket to regenerate aspen. No retention except leave any Hemlock if it exists. Look to expand stand to the north and south in to the pine but do not harvest more than twice the acres to expand the aspen. Specs: <u>Other</u> Comments: <u>Next</u> Do regen servey, any mix of tree species is acceptable regen. Steps: Proposed Start Date: 10/01/2015 42057045-Cut 4.9 42210 - Natural High 102 200+ Harvest Crown Thinning 4221 - Natural Red Cmpt. Review 45 Red Pine Density Log Pine Proposal Specs: <u>Other</u>

Prescription Mark to 120 BA, target red pine pole trees and poor form white pine. Cut all jack pine.

Comments:

<u>Next</u>

Steps:

Proposed

10/01/2015 Start Date:

53 42057053-Cut 18.3 42220 - Natural High 90 Harvest Clearcut with 4222 - Natural Jack Cmpt. Review Jack Pine Density Reserves Pine Proposal Pole

Prescription Clearcut to regenerate. Leave red and white pine to meet retention 3-5% scattered along stand for red crossbill.

Specs:

<u>Other</u> Comments:

Do regen servey, any mix of tree species is acceptable regen.

Next Steps:

Proposed

10/01/2015 Start Date:

Acres

Report 3 -- Treatments Prescribed with No Limiting Factor

BA

Compartment: 057
Year of Entry 2016

d Name Density Age Range

24 NF 42057024- 66.9 3302 - Low Density

CoverType

Conifer Trees

Tree Planting Hand Plant

Treatment

Type

4212 - Planted Jack Pine

Cover Type

Objective

Cmpt. Review Proposal

Status

Prescription plant to jack pine fallowing previous prescription- FTP # C42-663, residual left last time will be retained for wildlife

Size

Specs:

S t a

n

Other Comments:

Next

Do regen check per work instructions

Steps:

Proposed

Start Date: 10/24/2014

Treatment

Plant

27 NF_42057027- 9.0 3302 - Low Density
Plant Conifer Trees

Tree Planting Ha

Hand Plant

Treatment

Method

4212 - Planted Jack Cmpt. Review

Pine Proposal

Prescription plant to jack pine fallowing previous prescription- FTP # C42-665, residual left last time will be retained for wildlife

Specs:

Other Comments:

Next Do regen check per work instructions

Steps:

Proposed

Start Date: 10/24/2014

31 NF_42057031- 75.9 3302 - Low Density Tree Planting Hand Plant 4212 - Planted Jack Cmpt. Review Plant Conifer Trees Proposal

Prescription plant to jack pine fallowing previous prescription- FTP # C42-665, residual left last time will be retained for wildlife

Specs:

<u>Other</u>

Comments:

Next Do regen check per work instructions

Steps:

Proposed

Start Date: 10/24/2014

34 NF_42057034- 12.1 3302 - Low Density Tree Planting Hand Plant 4212 - Planted Jack Cmpt. Review Plant Conifer Trees Pine Proposal

Prescription plant to jack pine fallowing previous prescription- FTP # C42-665, residual left last time will be retained for wildlife

Specs:

Other_

Comments:

Next Do regen check per work instructions

Steps:

<u>Proposed</u>

Start Date: 10/24/2014

Total Treatment

Acreage Proposed: 436.5

Newberry Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 057 a Site Condition s Year of Entry 2016 t а **Treatment** CoverType BA **Treatment Treatment Cover Type** Size Stand **Approval** n d Name Density Age Range Type Method Objective **Status** Cmpt. Review 3.6 42220 - Natural High 78 Clearcut with 4222 - Natural Jack 4 42057004-Cut Harvest Jack Pine Density Reserves Pine Proposal Pole Prescription Access to stand is through private. If private land owner sells timber offer as negotiated sale. Clearcut, stand retention is left in BMP buffer of Specs: Betisy River Other Comment: Next Do regen check, any mix of tree species acceptable. If regen fails, trench and plant with red pine if private landowner allows access. If access is denied manage as nonforested stand. Steps: **Proposed** 10/01/2015 Start Date: **Limiting Factor** 2B: Unknown if access through adjacent landowner(s) is possible 9 42057009-Cut 4.9 42290 - Natural High 70 Harvest Clearcut with 4222 - Natural Jack Cmpt. Review Mixed Pine Density Reserves Pine Proposal Pole Prescription Clearcut to regenerate, leave steep slopes for retention, make sure to have mature pine, and spruce or jack pine in retention slopes for red Specs: crossbill and spruce grouse. Other Comment: Do regen servey, any mix of tree species is acceptable regen. Next Steps: Proposed 10/01/2015 Start Date: 2B: Unknown if access through adjacent landowner(s) is possible **Limiting Factor** 4199 - Other Mixed 56 65 12 42057012-Cut High Harvest Clearcut with 4193 - Birch, Aspen Cmpt. Review **Upland Deciduous** Density Reserves Proposal Pole Prescription Clearcut to regenerate, leave steep slopes for retention, also leave some large white pine in the stand and some large diameter aspen in the red line for wildlife Specs: Other Comment: <u>Next</u> Do regen servey, any mix of tree species is acceptable regen. Steps: Proposed Start Date: 10/01/2015 2B: Unknown if access through adjacent landowner(s) is possible **Limiting Factor** 42057013-Cut 4222 - Natural Jack Cmpt. Review 13 7.7 429 - Mixed Upland High 87 Harvest Clearcut with Density Reserves Conifers Pine Proposal Pole Prescription Clearcut to regenerate, leave steep slopes for retention, make sure to have mature pine, and spruce or jack pine in retention slopes for red Specs: crossbill and spruce grouse. Other Comment: Next Do regen servey, any mix of tree species is acceptable regen. Steps: **Proposed** 10/01/2015 Start Date: **Limiting Factor** 2B: Unknown if access through adjacent landowner(s) is possible

08/28/2014 1:47:13 PM - Page 1 of 1

21.8

Total Treatment

Acreage Proposed:

Report 5 – Site Conditions

Newberry Mgt. Unit

Compartment 057 Year of Entry 2016 Ryan Mattila: Examiner

Avail	ability for I	Vianagement									
Total	Acres	Acres	D	ominaı	nt Site	Cond	ditions	S			
Acres	Available	Not Available		No	5D	5C	5B	3J	2H	2F	2B
34	34		Aspen	34							
48	38	10	Cedar	38				3	6	0	
798	796	2	Jack Pine	583		209		2			3
351	117	235	Lowland Spruce/Fir	117	235						
125	124	1	Mixed Upland Deciduous	118						1	6
107	90	17	Natural Mixed Pines	54		31				17	5
10	10		Northern Hardwood	10							
92	92		Red Pine	36			55				
57	44	13	Upland Conifers	37						13	8
53	53		Upland Mixed Forest	53							
8	8		Upland Spruce/Fir	8							
16	16		White Pine	16							
1,697	1,421	277	Total Forested Acres	1,104	235	240	55	5	6	31	21
	84%	16%	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.

Not Available 2F: Too steep 19 Comments: O7 Available 2B: Unknown if access through adjacent landowner(s) is possible Comments:		Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
007 Available 2B: Unknown if access 20 through adjacent landowner(s) is possible	003	Not Available	2F: Too steep	19				
through adjacent landowner(s) is possible	C	comments:						
Comments:	007	Available	through adjacent	20				
	C	comments:						

Report 5 – Site Conditions

Newberry Mgt. Unit Ryan Mattila : Examiner Compartment 057 Year of Entry 2016

009	Not Available	3J: Water quality / BMPs (stream, river, or lake)	2	2B: Unknown if access through adjacent landowner(s) is possible	
С	omments:				
010	Available	2B: Unknown if access through adjacent landowner(s) is possible	3		
С	omments:				
011	Not Available	3J: Water quality / BMPs (stream, river, or lake)	0	2B: Unknown if access through adjacent landowner(s) is possible	
С	omments:				
012	Not Available	2F: Too steep	12		
С	omments:				
013	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6		
С	omments:				
014	Not Available	3J: Water quality / BMPs (stream, river, or lake)	3		
С	omments:				

Report 5 – Site Conditions

Newberry Mgt. Unit Ryan Mattila : Examiner Compartment 057 Year of Entry 2016

016	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	209
С	omments:		
017	Available	5B: Maintain for regeneration purposes	32
С	omments:		
018	Available	5B: Maintain for regeneration purposes	24
С	omments:		
019	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31
С	omments:		
020	Not Available	5D: Unproductive Forest Land	235
С	omments:		

Compartment: 057 Year of Entry: 2016



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
Comments				

Newberry Mgt. Unit Comparts





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.

Conservati Area	ion Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area						
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen condition stocked trout populations and those of other coldwater fish specific conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	ies to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by						
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish speci year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	ies (e.g., slimy sculpin) to persist from see conditions due to substantial						
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	proposed for legal dedication, but for which legal dedication by le nomination process is defined by Part 351, Wilderness and Natu Environmental Protection Act, 1994 PA 451. The program is adm require the submittal of a Natural Areas Nomination Packet to the	omprised of those Natural, Wilderness and Wild Areas that have been nominated or dedication, but for which legal dedication by legislature has not occurred. The is is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and otection Act, 1994 PA 451. The program is administered by the DNR. Nominations tall of a Natural Areas Nomination Packet to the DNR. This is an active program, with various stages of review. Final dedication of nominated Natural, Wilderness and Wildighed through legislative action.						
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effer as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian cts on water quality and quantity, as well						
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and and Environmental Protection Act, 1994 PA 451. The program is require the submittal of a Natural Areas Nomination Packet to the proposed sites in various stages of review. Final dedication of no Areas is accomplished through legislative action.	administered by the DNR. Nominations e DNR. This is an active program, with						

s t	Newberry	Mgt. Unit		Report 8	- Forested St	tands	Compartment: 057 Year of Entry: 2016	DNR DNR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	MICHIGAN
3	6120 - Lowland Cedar	Medium Density	12.2	113		Access difficu	It, stand wet, factor limit access ar	nd BMP's
4	42220 - Natural Jack Pine	High Density Pole	5.3	78				
8	429 - Mixed Upland Conifers	High Density Log	32.5	87				
9	42290 - Natural Mixed Pine	High Density Pole	5.9	70				
10	4112 - Maple, Beech, Cherry Association	High Density Pole	6.2	92	111-140			
11	42290 - Natural Mixed Pine	High Density Log	15.8	76	200+			
12	4199 - Other Mixed Upland Deciduous	High Density Pole	6.6	65				
13	429 - Mixed Upland Conifers	High Density Pole	9.1	87				
15	6120 - Lowland Cedar	High Density Pole	26.2	103				
16	42110 - Planted Red Pine	Low Density Log	19.0	75	51-80			
17	6120 - Lowland Cedar	High Density Sapling	9.3	86				
18	4132 - Aspen, Jack Pine	Medium Density	3.6	15				
19	4133 - Aspen, Mixed Pine	Medium Density	19.2	5				
20	42220 - Natural Jack Pine	High Density Sapling	39.2	12				
21	42220 - Natural Jack Pine	High Density Sapling	96.6	12				
22	42220 - Natural Jack Pine	Medium Density Log	5.2	32				
23	4132 - Aspen, Jack Pine	High Density Sapling	10.7	15				
25	4112 - Maple, Beech, Cherry Association	High Density Pole	3.7	60	111-140			

S t	Newberry Mgt. Unit			Report 8	– Forested Stands	Compartment: 057 Year of Entry: 2016	OF NATURAL SOLUTION OF NATURA SOLUTION OF NATURAL SOLUTION OF NATURA SOLUTION OF NATUR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN
26	42221 - Natural Jack Pine, Mixed Deciduous	Medium Density Pole	11.1	45			
28	42221 - Natural Jack Pine, Mixed Deciduous	High Density Sapling	21.9	15			
29	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	80.6	60		wp mostly found in pockets	
30	42290 - Natural Mixed Pine	Medium Density Pole	54.3	81			
32	42200 - Natural White Pine	Low Density Log	16.0	71	51-80		
33	4311 - Pine, Aspen Mix	Medium Density Pole	52.8	42		stand stocking poor harvest to regenerate	
35	42210 - Natural Red Pine	Medium Density Log	12.4	71	81-110		
36	42220 - Natural Jack Pine	High Density Sapling	83.3	15			
37	429 - Mixed Upland Conifers	High Density Log	16.2	60			
38	42340 - Upland Spruce/Fir	High Density Pole	7.7	60			
39	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	37.6	60			
40	42210 - Natural Red Pine	Medium Density Log	23.8	87	1-50		
41	42220 - Natural Jack Pine	Low Density Sapling	137.1	6			
42	42290 - Natural Mixed Pine	High Density Log	31.0	101	81-110	more RP in eastern protion of stand	
43	42210 - Natural Red Pine	Medium Density Log	31.7	86	81-110		
45	42210 - Natural Red Pine	High Density Log	4.9	102	200+		
46	42220 - Natural Jack Pine	High Density Sapling	83.5	22			

s t	Newberry Mgt. Unit			Report 8 – Forested Stands			Compartment: 057 Year of Entry: 2016	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	MICHIGAN 6
47	6122 - Black Spruce	Medium Density	234.6	Uneven Age		conditions during wo growing on humocks water flucuations. the regen a chance to gr wet dry cycles will con	with the close water table an et years resulting in ocainal di are older and have survived e e prolonged drought has giver ow well and become establish titinue to control this stand no activity recomended.	ie off. trees mutipal high n the existing ned. natural
48	6126 - Lowland Jack Pine	Medium Density	63.6	22		stand gets w	vetter with more spruce to the	east
49	6122 - Black Spruce	Low Density Sapling	3.8	22				
50	42220 - Natural Jack Pine	Low Density Sapling	23.6	22				
52	6122 - Black Spruce	Medium Density	113.1	35				
53	42220 - Natural Jack Pine	High Density Pole	18.3	90				
56	6126 - Lowland Jack Pine	Medium Density	209.3	63		ocational ridge that h with the smaller jp	ground with smaller 2-4 in JF nas 6-10 in JP. stand looks to b in the lower areas doing well d drought and lower water tabl	be two age I with the

Compartment: 057 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	629 - Mixed non-forested wetland	10.5	Unspecified	Unspecified	
2	629 - Mixed non-forested wetland	5.3	Unspecified	Unspecified	
5	629 - Mixed non-forested wetland	4.4	Unspecified	Unspecified	
6	629 - Mixed non-forested wetland	3.8	Unspecified	Unspecified	
7	629 - Mixed non-forested wetland	16.4	Unspecified	Unspecified	
14	310 - Herbaceous Openland	1.5	Unspecified	Unspecified	
24	3302 - Low Density Conifer Trees	66.9	Natural Regen	Jack Pine	
27	3302 - Low Density Conifer Trees	18.4	Natural Regen	Jack Pine	
31	3302 - Low Density Conifer Trees	75.9	Natural Regen	Jack Pine	
34	3302 - Low Density Conifer Trees	12.1	Natural Regen	Jack Pine	
44	3302 - Low Density Conifer Trees	2.9	Natural Regen	Jack Pine	
51	629 - Mixed non-forested wetland	16.6	Unspecified	Unspecified	
54	629 - Mixed non-forested wetland	18.4	Unspecified	Unspecified	
55	629 - Mixed non-forested wetland	35.4	Unspecified	Unspecified	
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