DNR DURCH

Compartment Review Presentation

Newberry Forest Management Unit

Compartment 46
Entry Year 2016

Acreage: 1,055
County Luce

Management Area: Charcoal Grade

Revision Date:

Stand Examiner: Don Kuhr

Legal Description:

T48N R08W Sections 5,6,7,18

Identified Planning Goals:

Management in the Charcoal Grade MA will strive to improve the quality of the hardwoods and balance the age classes of aspen; enhance wildlife habitat; protect areas of unique character; and provide for forest based recreational uses.

Soil and topography:

Primarily Bodi, Wallace, and Bodi/Chesborough soils on the upland sites, with Carbondale, Lupton and Tawas soils on the lower ground. Part of the Two-Hearted Lake Plain landform. Rolling topography with some intermittent drainages.

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

State-owned, with isolated 40's of private adjacent, and some corporate trust lands to the north.

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:

Part of a yet to be developed GEM plan.

Watershed and Fisheries Considerations:

Fisheries Values: Good

Fisheries Concerns: The Little Two-Hearted River borders this compartment on the west side with a portion of a branch to Linton Creek flowing out of the southeast portion. No treatments are prescribed near water, so Fisheries has no concerns at this time.

Wildlife Habitat Considerations:

Compartment 46 lies in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment is in the Charcoal Grade Management Area and has moose, black bear, American marten, ruffed grouse and spruce grouse as featured species. The compartment has a high component of hardwoods with a good interspersion of other types including aspen, hemlock, swamp conifers, lowlands, and swamp hardwoods.

Wildlife objectives in this compartment are to maintain habitat type diversity and inter-stand diversity by encouraging the retention of a variety of tree species in managed stands. Retention of hard and soft mast bearing trees, trees with suitable raptor nest bearing structure, snags, wildlife den trees and coarse woody debris in all stands should be maintained or developed where deficient. Forested corridors should be maintained to facilitate movement from upland areas to lowland areas. Yellow birch, soft and hard mast producing trees, super-canopy white pine, hemlock, and other conifer components should be retained in northern hardwood stands to encourage species and structural diversity. Additional wildlife species using this compartment include gray wolves, fisher, snowshoe hare, otter, beaver and numerous neo-tropical migrant songbirds.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Cambrian Trempealeau and Munising Formations subcrop below the glacial drift. The Trempealeau could be used for stone. Gravel pits are located in Section 18 and potential is good on the uplands. There is no economic oil and gas production in the UP.

Vehicle Access:

Excellent, ~ 20 miles north of Newberry via M - 123 and County Road 500.

Survey Needs:

The NWSW of section 7 (private "40") needs corners for the scheduled treatment.

Recreational Facilities and Opportunities:

Snowmobile trail number 45 transects the compartment.

Fire Protection:

Hardwood cover type of this compartment lends itself to small, slow moving fires. Access can be a challenge in some areas because of the heavier soils, soft ground, and better rooted timber. Risk to private property would be low.

Additional Compartment Information:

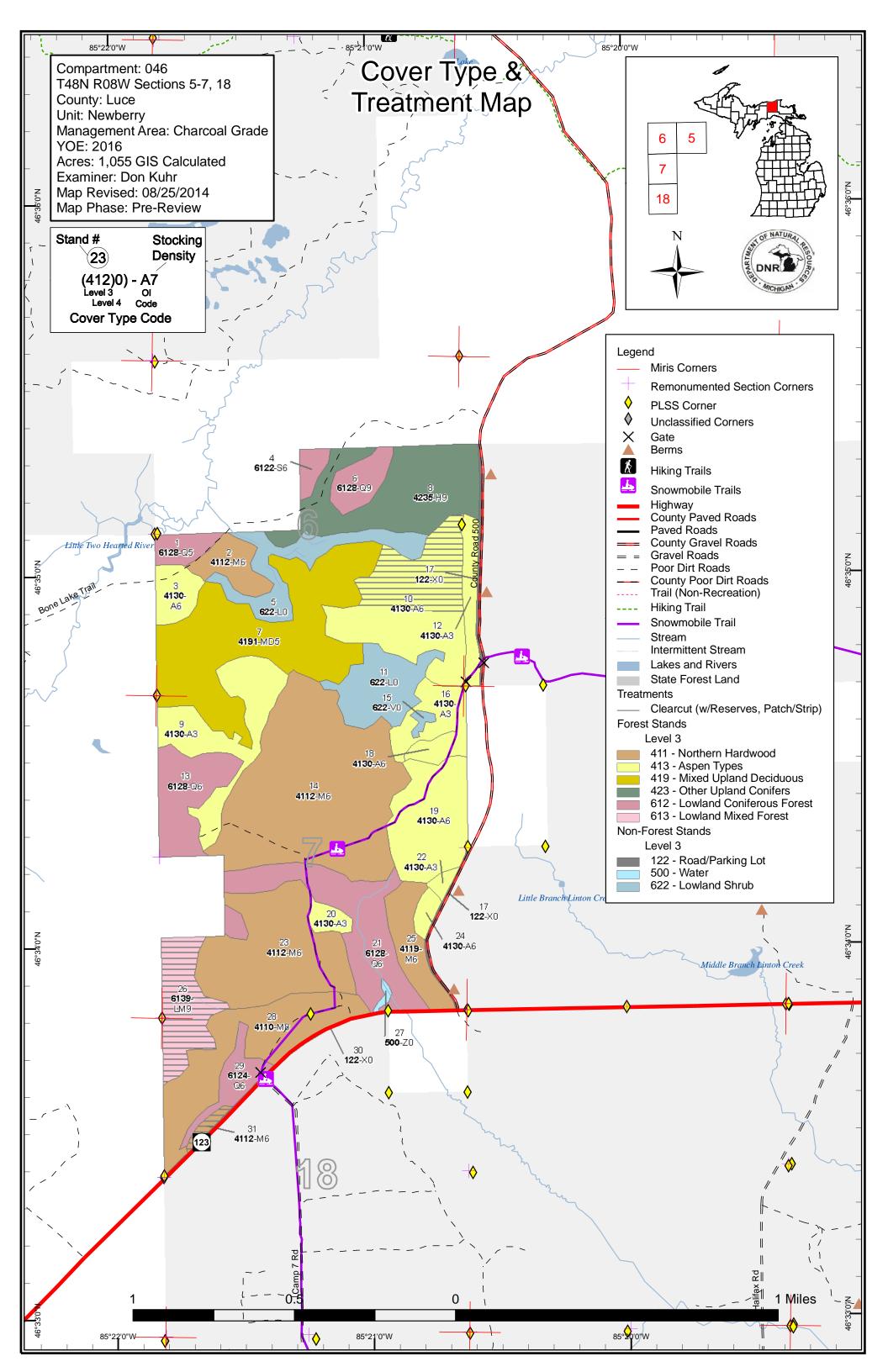
Area was heavily cut-over in the 1930's. Majority of land was purchased in 1945.

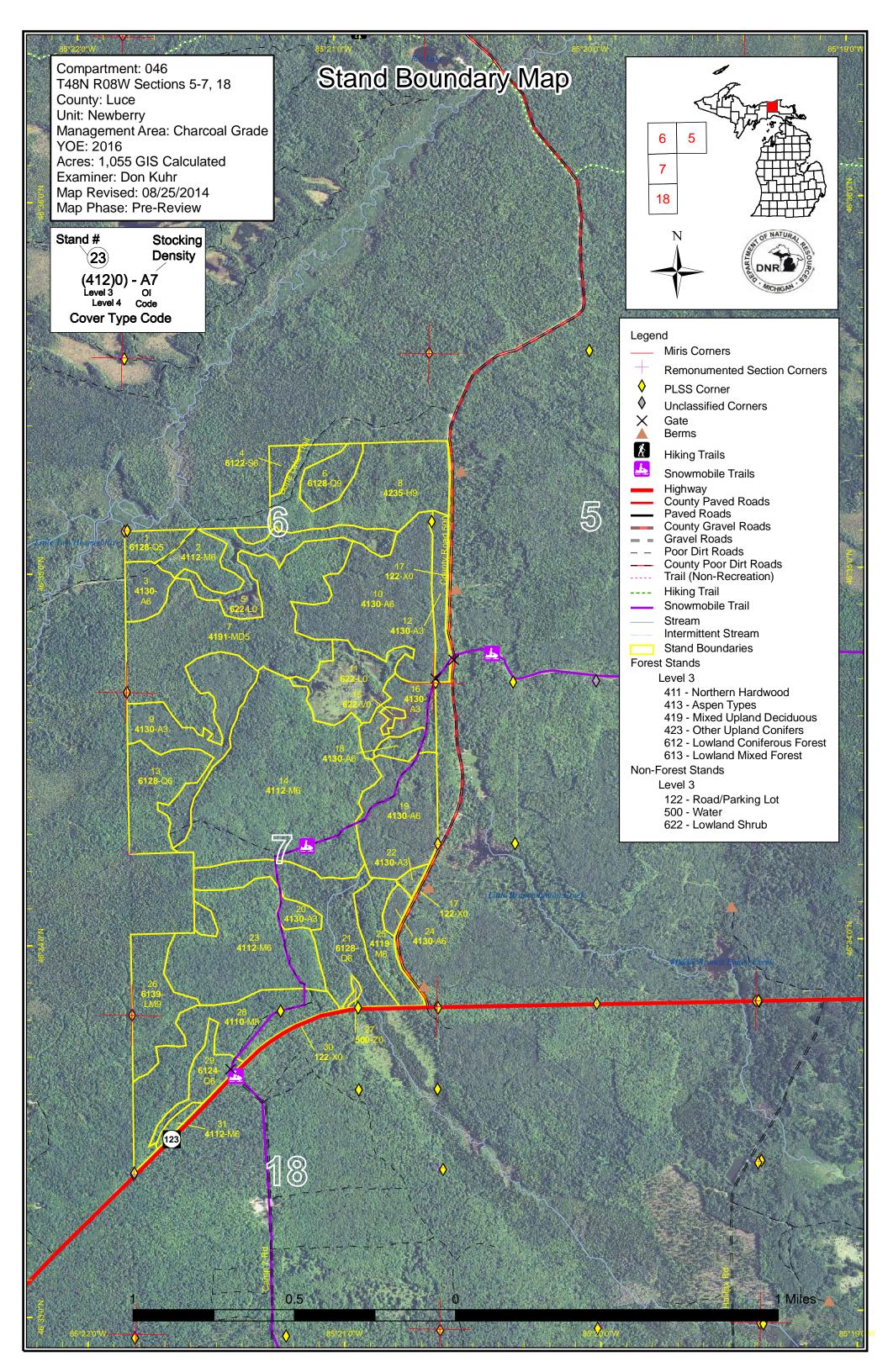
The following reports from the Inventory are attached:

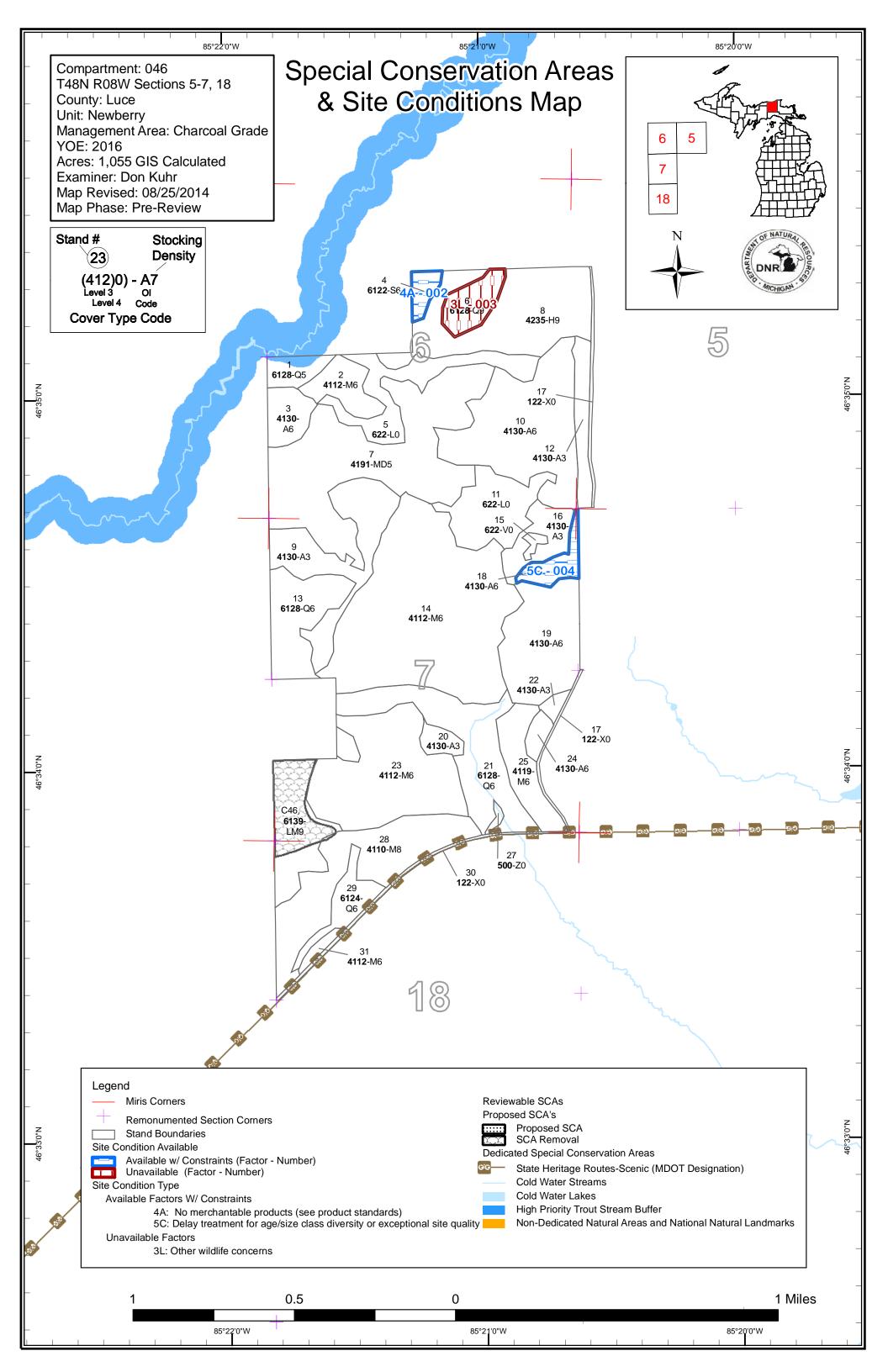
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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 046 Year of Entry 2016

Newberry Mgt. Unit

Don Kuhr: Examiner



Age Class New Age 70,73 70,709 10.0 70,70 20.28 \$0° % % ⁶0, % × × Aspen Bog Hemlock **Lowland Conifers Lowland Mixed Forest** Lowland Shrub Lowland Spruce/Fir Mixed Upland Deciduous Northern Hardwood Urban Water Total



Report 2 – Proposed Treatment Summaries

Newberry Mgt. Unit Year of Entry 2016

Compartment 046 **Total Compartment Acres: 1,055**

Acres by Treatment Type

Commercial Harvest - 79

Tree Planting - 0

Other - 0

Habitat Cut - 0

Opening Maintenance - 0

	Cover Type by Harvest Method								
		/	Co. Co.	Social of	N. S. S.	Sierno d	China Ora	S. Los	A CONTROL OF THE PROPERTY OF T
Aspen Types		41	0	0	0	0	0	41	ĺ
Lowland Mixed Forest		35	0	0	0	0	0	35	j
Northern Hardwood		3	0	0	0	0	0	3	
	Total	79	0	0	0	0	0	79]

Compartment: 046 Newberry Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2016 with No Limiting Factor s t а **Treatment** Acres CoverType Size Stand BA **Treatment Treatment Cover Type** Approval n Name Density Range Method Objective **Status** d Age Type 41.0 51-80 Clearcut with Cmpt. Review 42046010-Cut 4130 - Aspen High 40 Harvest 413 - Aspen 10 Density Reserves Proposal Pole Prescription Clearcut with reserves, leave scattered conifers for wildlife benefit Specs: Other Comments: <u>Next</u> regen check, acceptable scecies are what is existing in stand. Steps: <u>Proposed</u> Start Date: 10/01/2015 31 42046010-3.3 4112 - Maple, High 50 81-110 Harvest Clearcut with 413 - Aspen Cmpt. Review Beech, Cherry Reserves . Proposal Density Cut1 Association Pole Prescription Clearcut with reserves, retain conifers for wildlife benefit. Specs: <u>Other</u> Comments: regen check, acceptable species are what is present on site. <u>Next</u> Steps: Proposed Start Date: 10/01/2015 26 42046026-Cut 35.0 6139 - Mixed High 90 111-140 Harvest Clearcut with 6139 - Mixed Cmpt. Review Lowland Forest Density Log Reserves Lowland Forest Proposal

<u>Other</u>

Comments:

<u>oommonto.</u>

Next regen check, acceptable species are what is growing now

Prescription Leave some cedar, hemlock and yellow birch for wildlife benefit

Steps:

Specs:

Proposed

Start Date: 10/01/2015

Total Treatment

Acreage Proposed: 79.3

Newberry Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 046 a Site Condition s Year of Entry 2016 t **Treatment** Acres CoverType Size Stand ВА **Treatment Treatment Cover Type Approval** n Objective Method Status Name Range Density Age Type #Type! #Type! **Prescription** Specs: Other Comment: <u>Next</u> Steps: <u>Proposed</u> #Type! Start Date:

Total Treatment

Limiting Factor

Acreage Proposed: 0.0

Report 5 – Site Conditions

Newberry Mgt. Unit

Don Kuhr: Examiner

Compartment 046 Year of Entry 2016

Availa	ability for l	Management					
Total	Acres	Acres		Domina	nt Site	e Con	ditions
Acres	Available	Not Available		No	5C	4A	3L
253	253		Aspen	242	10		
71	71		Hemlock	71			
137	122	15	Lowland Conifers	122			15
35	35		Lowland Mixed Forest	35			
6	6		Lowland Spruce/Fir			6	
121	121		Mixed Upland Deciduous	121			
348	348		Northern Hardwood	348			
971	956	15	Total Forested Acres	940	10	6	15
	98%	2%	Relative Percent				

^{*}Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Available	4A: No merchantable products (see product standards)	6				
	Comments: Only 6 acrestoo s	mall?					
003	Not Available	3L: Other wildlife concerns	15	2G: Too wet (sensitive soils, does not include access issues)			
C	comments:						
004	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10				
C	Comments:						

Newberry Mgt. Unit

Compartment: 046
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
C46	Other SCA		SCA Removal	22.3
Comments				
Does not meet old g	growth or SCA criteria.			

Newberry Mgt. Unit Compartment: 046
Year of Entry 2016



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	on 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 oxyger stocked trout populations and those of other coldwater conditions for coldwater fishes may occur in Michigan la groundwater inflows, or are located in colder (northern) Director's action and designated as trout resources by	fish species to persist from year to year. Suitable akes if they are relatively deep, have substantial areas of the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxy stocked trout populations and those of other coldwater year to year. Coldwater streams in Michigan typically pr contributions of groundwater to their stream flows. Such designated as trout resources by Fisheries Order 210.	fish species (e.g., slimy sculpin) to persist from rovide these conditions due to substantial
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosinfluences the aquatic ecosystem and vice-versa. Beca streams and open water wetlands, riparian areas harbo communities are ecologically and socially significant in as aesthetics, habitat, bank stability, timber production,	nuse of the unique conditions adjacent to lakes, or a high diversity of plants and wildlife. Riparian their effects on water quality and quantity, as well

S t	Newberry	/ Mgt. Unit		Report 8 –	Forested Stands	Compartment: 046 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	10.2	Uneven Age	51-80	regenerating all aged
2	4112 - Maple, Beech, Cherry Association	High Density Pole	16.8	60	51-80	
3	4130 - Aspen	High Density Pole	14.1	20	1-50	
4	6122 - Black Spruce	High Density Pole	6.4	79	51-80	
6	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	15.1	100		
7	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	121.3	Uneven Age	51-80	Older balsam died sub canopy regenerated
8	42350 - Upland Hemlock	High Density Log	71.5	90	51-80	hemlock regenerating in patches
9	4130 - Aspen	High Density Sapling	48.3	20		
10	4130 - Aspen	High Density Pole	81.7	40	51-80	could cut part for GEM
12	4130 - Aspen	High Density Sapling	15.1	20		
13	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	34.9	Uneven Age	81-110	
14	4112 - Maple, Beech, Cherry Association	High Density Pole	160.6	80	81-110	
16	4130 - Aspen	High Density Sapling	17.4	20		
18	4130 - Aspen	High Density Pole	10.3	50		
19	4130 - Aspen	High Density Pole	51.2	30	1-50	
20	4130 - Aspen	High Density Sapling	6.4	15		
21	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	61.7	Uneven Age	1-50	old spruce
22	4130 - Aspen	High Density Sapling	3.0	8		

s t	Newberry Mgt. Unit			Report 8 –	· Forested Stands	Compartment: 046 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4112 - Maple, Beech, Cherry Association	High Density Pole	80.0	90	51-80	
24	4130 - Aspen	High Density Pole	5.2	25		
25	4119 - Mixed Northern Hardwoods	High Density Pole	22.9	70	81-110	narrow strip along road sloping down to wetland
26	6139 - Mixed Lowland Forest	High Density Log	35.0	90	111-140	
28	4110 - Sugar Maple Association	Medium Density Log	64.2	90	51-80	
29	6124 - Lowland Spruce- Fir	High Density Pole	14.9	70	51-80	drainage
31	4112 - Maple, Beech, Cherry Association	High Density Pole	3.3	Uneven Age	81-110	

Report 9 - Nonforested Stands

Compartment: 046 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
5	6229 - Mixed lowland shrub	33.5	No	Unspecified	
11	6229 - Mixed lowland shrub	33.7	No	Unspecified	
15	6225 - Bog	2.1	No	Unspecified	
17	122 - Road/Parking Lot	6.7	No	Unspecified	
27	50 - Water	1.4	No	Unspecified	
30	122 - Road/Parking Lot	6.3	No	Unspecified	M-123