

# **Compartment Review Presentation**

Newberry Forest Management Unit Compartment 85 Entry Year 2015 Acreage: 2,008 County Luce Management Area: 8 Mile Corner

**Revision Date:** 09/04/2013

Stand Examiner: Jason Tokar

#### Legal Description:

T47N R10W Sections 5, 6, 7, 8, 16, 17 & 18

#### **Identified Planning Goals:**

Maintain or improve the forest health, productivity, and diversity of the area through proper management. Timber management, wildlife habitat, and recreational opportunities such as hunting and snowmobiling are the main uses of the compartment.

#### Soil and topography:

The majority of the compartment is upland with rolling topography and small hills. Soils typical of the upland areas include Kalkaska sand, Dillingham-Kalkaska complex, and Wallace sand. The forest cover types on the upland soils are primarily northern hardwoods and aspen with some red pine and white spruce plantations. The lowland, swamp areas are found mainly in the eastern portion of the compartment. These areas are level and are comprised of wet soils such as Carbondale, Lupton, and Tawas Mucks. Forest cover types on these lowland soils include cedar, swamp conifers, and some lowland aspen. Several small, shallow lakes are found within the compartment.

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

The compartment has a mix of ownership within its boundaries. Approximately one-half of the land within the compartment is under State of Michigan ownership. The Forest Land Group and The Nature Conservacy are other major land owners. There are also several small private land owners located throughout the entire compartment. State land borders most of the compartment to the west, north, and south with Forest Land Group and State of Michigan land to the east. There is a small amount of development in the compartment consisting of a private resort (Halfway Lake Resort), a restaurant (Wolf Inn) and a small gas station. A high percentage of the small private land holdings within the boundaries are permanent residences. The remaining small private parcels are used as hunting camps and seasonal residences. Land use in the compartment entails various forms of outdoor recreation including hunting, fishing, snowmobiling, wildlife viewing, ORV use and hiking. Timber production also is a major use of the compartment.

#### **Unique Natural Features:**

MNFI has identified a loon on Halfway Lake. Potential in the compartment for merlin, yellow rail, American bittern, grey wolf, and several critical marsh/bog plants.

#### Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

## **Special Management Designations or Considerations:**

## Watershed and Fisheries Considerations:

#### Fisheries Values: Good to Excellent

Fisheries Concerns: This compartment contains the designated trout stream section of the Auger River (Auger Creek). There are native brook trout present in this section of the creek as good groundwater input is present. Beaver activity is present here. The stands were treatments are prescribed are already buffered from the creek, but should still maintain a 200 foot buffer. Specifics were discussed with stand examiner.

### Wildlife Habitat Considerations:

This compartment is located in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. Vegetative diversity of this compartment is excellent with aspen, swamp conifers and upland hardwoods comprising roughly 60% of the total area. Current species composition appears to represent an increase in aspen and upland hardwood habitats and a decrease in pine habitats from what existed during presettlement times.

Mast producing species and a conifer component will be maintained in hardwood and aspen managed stands to enhance

food availability and structural and species diversity. Hemlock and cedar canopies will not be disturbed to preserve thermal capabilities of those stands. Nest and den trees, snags, and woody debris will be maintained in stands where they exist. Wildlife featured species in the management area include blackburnian warbler, white-tailed deer, pileated woodpecker, and ruffed grouse.

#### Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck and an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Formations subcrop below the glacial drift. The Trenton and Black River are quarried for stone/dolomite in the UP. A gravel pit is located in Section 6 and potential appears to be good in the west half. There is no economic oil and gas production in the UP.

#### Vehicle Access:

The compartment is located approximately 12 miles north and west of Newberry along County Road 407. Access to the compartment can be gained by various county maintained roads, both year round and seasonal. County Roads 407 and 505 run north and south through the compartment while County Roads 415 and 422 run westerly from County Road 407. Several two track woods roads provide access to most of the upland areas. The very eastern portion of the compartment has limited vehicle access due to private land and lowland areas.

#### **Survey Needs:**

Corner establishment - T47N R10W Sections 7 and 8, N1/16 common to both sections. T47N R10W Section 16 - N1/16 corner.

#### **Recreational Facilities and Opportunities:**

The Silver Creek ORV Trail runs through the southwest portion of the compartment, through stands 51 and 63. Do not skid along the trail, and keep the trail clear of logging slash and debris. If trail marker trees must be cut, please work with trails analyst or Rec Spec to place carsonite posts with trail markers. The Pine Stump Snowmobile Trail, Trail 498, follows County Road 415 during the winter months. Other recreational opportunities would include hunting, fishing, hiking, and wildlife viewing.

#### **Fire Protection:**

Potential for large fire runs may be low, because of the hardwood fuel types and scattered Red Pine plantations. Upland ground and network of roads are favorable for fire equipment access. Private property risk would be low.

#### Additional Compartment Information:

#### The following reports from the Inventory are attached:

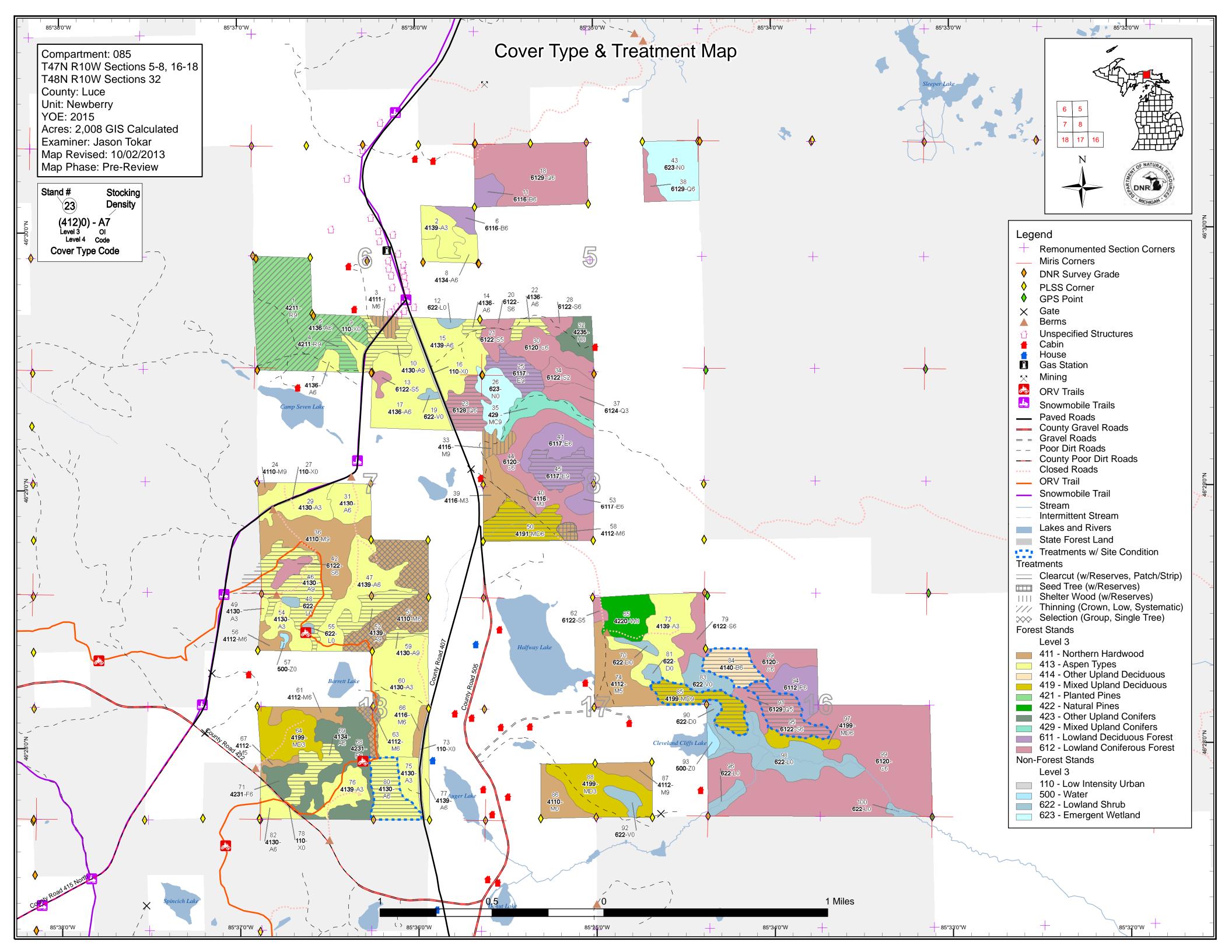
Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

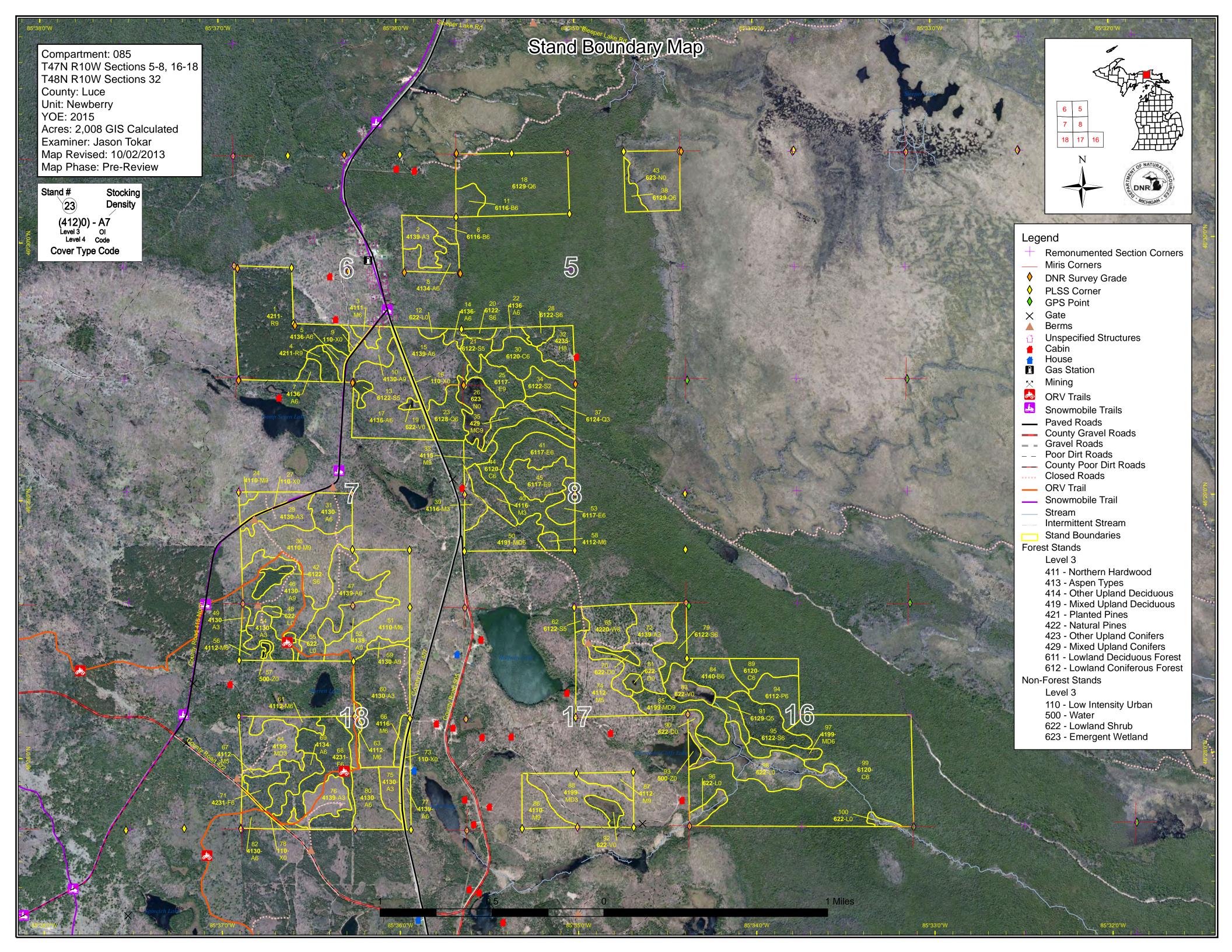
The following information is displayed, where pertinent, on the attached compartment maps:

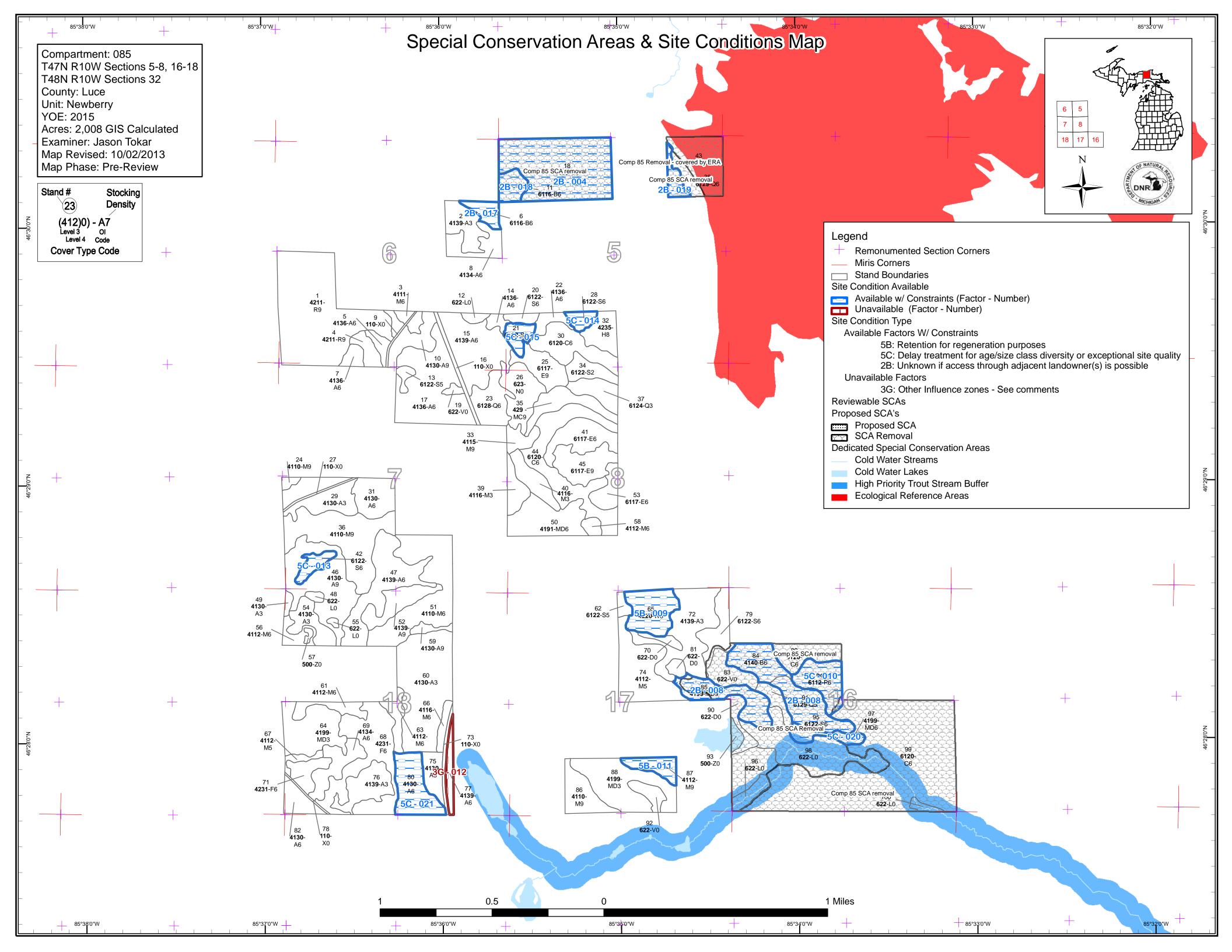
Base feature information, stand boundaries, cover types, and numbers Proposed treatments

Site condition boundaries

Details on the road access system







# Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit Jason Tokar : Examiner

## Compartment 085 Year of Entry 2015



Age	Class
Age.	01000

									10'10		6.00		°1/0/	<u> </u>		, 0 <sup>20</sup>
Aspen	95	42	115	40	117	0	83	64	0	0	0	0	0	0	556	
Bog	23	0	0	0	0	0	0	0	0	0	0	0	0	0	23	
Cedar	0	0	0	0	0	0	0	0	0	73	0	225	0	0	298	
Hemlock	0	0	0	0	0	0	0	0	0	14	0	0	0	0	14	
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	21	0	0	0	0	0	0	0	21	
Lowland Conifers	0	0	13	0	0	0	0	8	106	0	0	0	0	0	126	
Lowland Deciduous	0	0	0	0	0	0	0	33	0	40	0	0	0	0	73	
Lowland Shrub	63	0	0	0	0	0	0	0	0	0	0	0	0	0	63	
Lowland Spruce/Fir	0	0	0	0	11	0	16	3	56	0	0	0	0	0	87	
Marsh	59	0	0	0	0	0	0	0	0	0	0	0	0	0	59	
Mixed Upland Deciduous	74	0	0	0	0	0	31	0	35	0	0	0	0	0	141	
Northern Hardwood	0	10	13	0	0	0	0	0	222	13	0	0	0	0	258	
Paper Birch	0	0	0	0	0	0	0	0	38	0	0	0	0	0	38	
Red Pine	0	0	0	0	0	0	111	0	0	0	0	0	0	0	111	
Treed Bog	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15	
Upland Conifers	0	0	0	0	0	0	0	0	0	18	0	0	0	0	18	
Upland Spruce/Fir	0	0	0	0	0	63	0	0	0	0	0	0	0	0	63	
Urban	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15	
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
White Pine	0	0	0	0	0	0	0	0	0	0	25	0	0	0	25	ĺ
Total	349	52	141	40	128	63	263	109	456	157	25	225	0	0	2008	



MICHIGAN	Newberry Mgt. Unit Year of Entry 2015										Compartment Total Compartment Acres:	
				Acro	e by T	reatm	ont Tu	<b>n</b> 0				2,000
					-		ent ry	he				
		ee Planting - 8			Other -	0						
	Habitat Cut - 0 Opening Mainte		nce - (	)								
				Cov	ver Tyj	pe by H	larves	st Meth	nod			
	A sugar T sugar									Social		
	Aspen Types		140	0	0	0	0	0	140			
	Lowland Coniferous Fores	t	46	0	0	0	0	0	46			
	Lowland Deciduous Forest	t	40	0	0	0	0	0	40			
	Mixed Upland Deciduous		57	0	0	0	0	0	57			
	Northern Hardwood		0	67	4	13	0	0	84			
	Other Upland Deciduous		20	0	0	0	0	0	20			
	Planted Pines		8	0	0	0	104	0	111			
		Total	310	67	4	13	104	0	498			

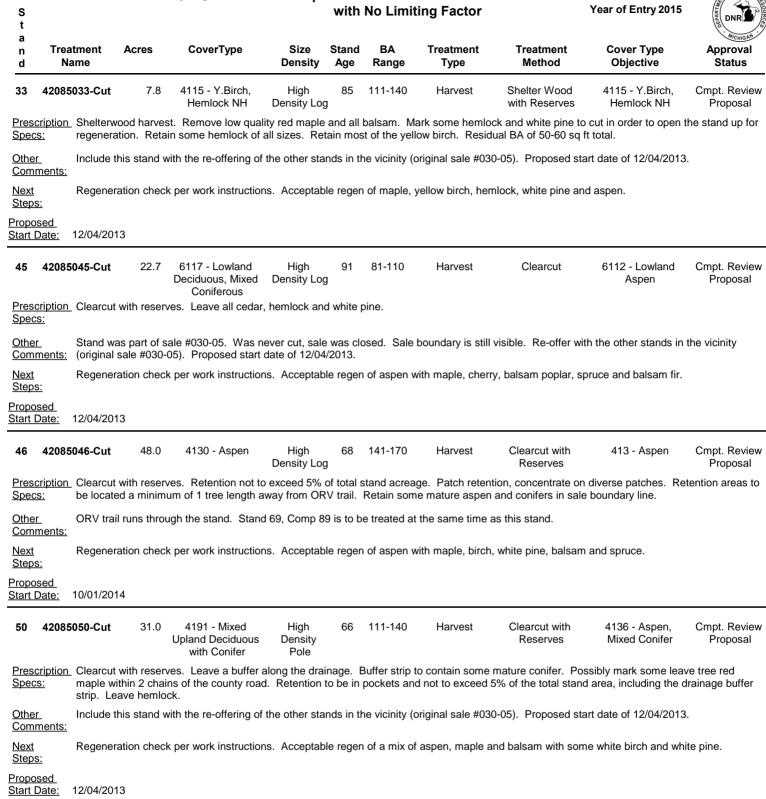
S t			Newbe	rry Mgt. Unit	Repo			nents Prescr ting Factor	ibed	Compartment: 085 Year of Entry 2015	TOP NATURAL RESOURCES
a n d		tment ame	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	42085	001-Cut	103.9	42110 - Planted Red Pine	High Density Log	62 g	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
Preso Spec									centrate marking o on-red pine species	n the larger diameter re	ed pine, 14 inch
<u>Othe</u> Com	<u>r</u> ments:	Red pine	plantation.	Planted in early 19	950's (1951).	Thinned	d as sales	#033-95-01 and	\$41-97-02, both co	mpleted in 1997.	
<u>Next</u> Steps											
<u>Propo</u> Start [		10/01/201	4								
3	42085	003-Cut	5.1	4111 - S.Maple, Hard Mast Association	High Density Pole	80	81-110	Harvest	Shelter Wood with Reserves	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Preso</u> Spec										nd not a final harvest. ne red line/sale bounda	
<u>Other</u> Com	<u>r</u> ments:										
<u>Next</u> Steps		Regener	ation check	per work instructior	ns.						
<u>Propo</u> Start [		10/01/201	4								
4	42085	004-Cut	7.5	42110 - Planted Red Pine	High Density Log	64 9	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prese</u> Spec		Clearcut.	Remove a	Il trees down to 2 ir	nches in diam	ieter. Sr	mall acrea	ge, no retention.			
<u>Othe</u> Com	<u>r</u> ments:	RX burn	and planting	g to follow.							
<u>Next</u> Steps				ed by prescribed bu se red pine regener			planting. 1	French site follow	ving prescribed burr	n and plant red pine. S	pray
<u>Propo</u> Start [		10/01/201	4								
10	42085	010-Cut	17.1	4130 - Aspen	High Density Lo	-	141-170	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Preso</u> Spec				es. Retention not to oundary trees. Lea				age. Individual tr	ree retention of con	ifers up to 20 BA. Mate	ure aspen to be
<u>Othe</u> Com	<u>r</u> ments:										
<u>Next</u> Steps		Regener	ation check	per work instructior	ns.						
<u>Propo</u> <u>Start [</u>		10/01/201	4								

t		Newbe	rry Mgt. Unit	Repo			ents Prescr ting Factor	ibed	Compartment: 085 Year of Entry 2015	OF NATURAL
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
14	42085014-Cut	3.6	4136 - Aspen, Mixed Conifer	High Density Pole	77	81-110	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
Preso Spec		t with reserv	es. Leave all paper l	oirch, cedar,	hemloc	k and white	pine.			
<u>Othe</u> Com			ale #030-05. Was ne 05). Proposed start d			osed. Sale	boundary is still	visible. Re-offer w	<i>i</i> ith the other stands in	the vicinity
<u>Next</u> Step:		ration check	per work instruction	s. Acceptab	le regen	n of aspen v	vith mixed conife	ers, maple and birc	h.	
Propo Start I	osed Date: 12/04/20	13								
22	42085022-Cut	6.0	4136 - Aspen, Mixed Conifer	High Density Pole	77	81-110	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
Pres Spec		t with reserv	es. Leave all paper l	oirch, cedar,	hemloc	k and white	pine.			
<u>Othe</u>			ale #030-05. Was ne 05). Proposed start d			osed. Sale	boundary is still	visible. Re-offer wi	ith the other stands in t	he vicinity
<u>Next</u>			per work instructions			neration of a	aspen with mixed	d conifers, maple a	nd birch.	
<u>Step</u>										
	Date: 12/04/20	13								
		19.1	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	82	111-140	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
23	<u>Date:</u> 12/04/20 <b>42085023-Cut</b> <u>cription</u> Clearcut	19.1	Coniferous, Mixed	Density Pole					Coniferous, Mixed	Cmpt. Review Proposal
23 Press Spec	<u>Date:</u> 12/04/20 <b>42085023-Cut</b> <u>cription</u> Clearcut <u>cs:</u>	19.1	Coniferous, Mixed Deciduous	Density Pole					Coniferous, Mixed	•
23 Prese Spec Othe Com	Date: 12/04/20 42085023-Cut <u>cription</u> Clearcut <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cription</u> <u>cr</u>	19.1	Coniferous, Mixed Deciduous	Density Pole					Coniferous, Mixed	
23 Prese Spec Othe Com Next Steps Propo	Date: 12/04/20 42085023-Cut cription Clearcut s: r ments: S:	19.1 t with reserv	Coniferous, Mixed Deciduous	Density Pole					Coniferous, Mixed	
23 Prese Spec Othe Com Next Steps Propo	Date: 12/04/20 42085023-Cut cription Clearcut s: r ments: s: bsed	19.1 t with reserv	Coniferous, Mixed Deciduous	Density Pole	ndividual				Coniferous, Mixed	Proposal
23 Press Spec Othe Com Next Step: Propo Start I 25 Press	Date: 12/04/20 42085023-Cut cription Clearcut s: r ments: s: ssed Date: 10/01/20 42085025-Cut cription Clearcut	19.1 t with reserv 14 17.1	Coniferous, Mixed Deciduous es. Retain some cor 6117 - Lowland Deciduous, Mixed	Density Pole hifer either ir High Density Log	91	lly or in poc	kets.	Reserves	Coniferous, Mixed Deciduous 611 - Lowland	Proposal Cmpt. Review
23 Press Spec Othe Com Next Step: Propo tart I Press Spec Othe Com	Date:         12/04/20           42085023-Cut           cription         Clearcut           r         Clearcut           ments:         Clearcut           bsed         10/01/20           42085025-Cut         Clearcut           cription         Clearcut           cription         Clearcut           s:         Clearcut           s:         Clearcut           s:         Stand w	19.1 t with reserv 14 17.1 t with reserv as part of sa	Coniferous, Mixed Deciduous es. Retain some cor 6117 - Lowland Deciduous, Mixed Coniferous es. Leave all cedar,	Density Pole hifer either in High Density Log hemlock an	91 9 d white p e was clo	lly or in poc 81-110 pine.	kets. Harvest	Reserves	Coniferous, Mixed Deciduous 611 - Lowland	Proposal Cmpt. Review Proposal
23 Press Spec Othe Com Next Step: Propo Start I 25 Press Spec Othe Com	Date: 12/04/20 42085023-Cut cription Clearcut s: <u>r</u> ments: <u>ssed</u> Date: 10/01/20 42085025-Cut cription Clearcut <u>s:</u> <u>r</u> Stand w ments: (original Regene	19.1 t with reserv 14 17.1 t with reserv as part of sa sale #030-0	Coniferous, Mixed Deciduous es. Retain some cor 6117 - Lowland Deciduous, Mixed Coniferous es. Leave all cedar, ale #030-05. Was ne	Density Pole hifer either ir High Density Log hemlock an ever cut, sale late of 12/04	91 91 9 d white p e was clo //2013.	lly or in poc 81-110 pine. psed. Sale	kets. Harvest boundary is still	Reserves Clearcut visible. Re-offer w	Coniferous, Mixed Deciduous 611 - Lowland Deciduous Forest	Proposal Cmpt. Review Proposal

Newberry Mgt. Unit

#### **Report 3 -- Treatments Prescribed** with No Limiting Factor

Compartment: 085



Newberry Mgt. Unit

#### Report 3 -- Treatments Prescribed with No Limiting Factor



S t					with	No Limit	ing Factor		Year of Entry 2015	DNR DNR
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
51	42085051-Cut	58.3	4110 - Sugar Maple Association	High Density	82	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

PrescriptionSelection harvest. Residual BA of 70-80 sq ft. Remove trees with maple borer damage and multi stem maple. Remove most of the beech.Specs:Mark aspen to cut, retaining 1/3 to 1/2 as residual. Leave a good conifer component and any hemlock. Stand boundary with adjacent aspen stand distinguished by change in sub canopy. Higher component of aspen in subcanopy of aspen stand.

# Other Portions of the fenceline along the eastern stand boundary may be in trespass. ORV Trail runs through the southern portion of the stand.

<u>Next</u> Regeneration check per work instructions. Acceptable regen of maple with a minor component of aspen.

Pole

Steps:

Proposed

Start Date: 10/01/2014

52	4208	5052-Cut	17.5	4139 - Aspen, Mixed Deciduous	High Density Log	70	141-170	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<u>Prese</u> Spec				es. Retention not to ned in adjacent stan					Mature aspen and sor	ne conifers can be re	tained in red
<u>Othe</u> Com	<u>r</u> ments:	Access via a	abandor	ned road to the north							
<u>Next</u> Steps		Regeneratio	n check	per work instruction	s. Acceptable	rege	n of aspen v	vith maple, birch	h and balsam.		
<u>Propo</u> Start I		10/01/2014									
58	4208	5058-Cut	3.8	4112 - Maple, Beech, Cherry Association	High Density Pole	85	81-110	Harvest	Seed Tree with Reserves	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
Prese Spec				erves. Retain 20-30 nove/cut as much yc					any hemlock and whit le regeneration.	e pine as seed trees.	Small
<u>Othe</u> Com	<u>r</u> ments:	Include this	stand w	ith the re-offering of	the other stand	ds in t	he vicinity (	original sale #03	30-05). Proposed sta	rt date of 12/04/2013.	
<u>Next</u> Steps		Regeneratio	n check	per work instruction	s. Acceptable	rege	n of red map	ole with white pi	ne and hemlock.		
<u>Propo</u> Start I		12/04/2013									
59	4208	5059-Cut	3.5	4130 - Aspen	High Density Log	70	111-140	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
<u>Prese</u> Spec		Clearcut. S	mall acr	eage stand, no reter	ntion. Access	from t	he north, ste	eep slope to the	e south.		
<u>Othe</u>	<u>r</u> ments:										
<u>Next</u> Steps		Regeneratio	n check	per work instruction	s. Acceptable	rege	n of aspen v	vith maple, bals	am.		
Propo Start I		10/01/2014									

S t			Newbe	rry Mgt. Unit	Repo			ents Prescri ing Factor	bed	Compartment: 085 Year of Entry 2015	OF NATURAL
a n d		tment Ime	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
63	420850	063-Cut	8.7	4112 - Maple, Beech, Cherry Association	High Density Pole	80	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<u>Prescr</u> Specs				Remove mature aspe t and a variety of con				ality red maple.	Maintain a good co	omponent of better qua	lity black cherry
<u>Other</u> Comm		ORV trai	il runs throu	gh the stand.							
<u>Next</u> Steps:		Regener	ation check	per work instructions	s. Accpetab	le regen	of maple v	vith aspen and c	herry.		
Propos Start D		10/01/201	14								
69	420850	069-Cut	17.5	4134 - Aspen, Spruce/Fir	High Density Pole	61	111-140	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
					Fole						
	•	Clearcut	. No retenti	on needed, narrow w		l. Retair	n some asp	en in the bound	ary line trees.		
<u>Specs</u> Other	<u>:</u>		nd is a portio		vinding stand					increase species diver	sity in the
<u>Prescr</u> <u>Specs</u> <u>Other</u> <u>Comm</u> <u>Next</u> <u>Steps:</u>	<u>:</u> nents:	This star immedia	nd is a portio te area.		vinding stand	ailed as a	a spruce st	and. Planted in	1962. Harvest will	·	sity in the
<u>Specs</u> Other Comm <u>Next</u>	nents:	This star immedia	nd is a portio te area. ation check	on of the spruce plan	vinding stand	ailed as a	a spruce st	and. Planted in	1962. Harvest will	·	sity in the
<u>Specs</u> <u>Other</u> Comm <u>Vext</u> Steps: ropos tart D	<u>ed</u> ate: <b>42089</b> _	This star immedia Regener	nd is a portio te area. ation check	on of the spruce plan	vinding stand	ailed as a	a spruce st	and. Planted in	1962. Harvest will	·	
Specs Other Comm Next Steps: tart D	ients: ed ate: 42089_ OE	This star immedia Regener 10/01/201 _OutOfY -Cut Clearcut	nd is a portion te area. ration check 14 5.4 with reserve	on of the spruce plan per work instructions	vinding stand tation that fa s. Acceptab	ailed as a	of aspen v	and. Planted in vith maple, cherr Harvest	1962. Harvest will y, balsam and spru Clearcut with Reserves	uce. 4139 - Aspen,	Cmpt. Review Proposal
Specs Other Comm Vext Steps: Topos tart D	<u>ed</u> ed ate: 42089_ OE	This star immedia Regener 10/01/201 OutOfY -Cut Clearcut be locate	nd is a portion te area. Tation check 14 5.4 with reserve	on of the spruce plan per work instructions	vinding stand tation that fa s. Acceptab exceed 5% vay	ailed as a le regen	of aspen v	and. Planted in vith maple, cherr Harvest ge. Patch reten	1962. Harvest will y, balsam and spru Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
Specs Other Comm Next Steps: ropos tart D Prescr Specs Other	ed ate: 42089_ OE ription	This star immedia Regener 10/01/201 OutOfY -Cut Clearcut be locate ORV trai	nd is a portion te area. ration check 14 5.4 with reserved ad a minimu	on of the spruce plan per work instructions es. Retention not to im of 1 tree length av	vinding stand tation that fa s. Acceptab exceed 5% vay with Stand 4	ailed as a le regen of total s 6, Comp	of aspen v of aspen v stand acrea	and. Planted in vith maple, cherr Harvest ge. Patch reten 5 YOE.	1962. Harvest will y, balsam and spru Clearcut with Reserves tion, concentrate of	uce. 4139 - Aspen, Mixed Deciduous n diverse patches. Ref	Cmpt. Review Proposal

Acreage Proposed: 403.5

S t			Newbe	rry Mgt. Unit	Report 4		eatment imiting	ts Prescribec Factor	l with	Compartment: 085 Year of Entry 2015	OF NATURAL
a n d	Treatmo Name		Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
80	42085080	-Cut	26.6	4130 - Aspen	High Density Pole	70	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
Presc Specs	<u>s:</u> yo de	ung asp layed di	en stands Je to requ	. Open areas in the s	tand will pro	ovide po s diversi	ockets of a ity. Stand	dvanced aspen, will be checked p	maple and cherry r	e retention pockets nea egen post harvest. Trea stand begins to decline,	atment was
<u>Other</u> Comr	<u>nent:</u>										
<u>Vext</u> Steps	Re	generat	ion check	per work instructions	. Acceptabl	e regen	of aspen	with maple, cher	ry, balsam, spruce	and white pine.	
Propo Start		/01/201	4								
	ng Factor		5C: [	Delay treatment for ag	e/size class	diversi	ty or excep	otional site quality	y		
84	42085084	-Cut	20.2	4140 - Other Upland Deciduous	High Density Pole	87	141- 170	Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal
Presc Spece				es. Retain 3-5 health n teh retention patche	y white bircł	n per ac	re. Other	retention to be pa	atch retention, up t	o 5% of stand acreage.	Leave a
Other		cess th	ough priv	ate property is questic	onable due t	o recen	t lans sale	s. Possible acce	ess through anothe	r adjacent land owner.	
<u>Jomr</u> Jext Steps		generat	ion check	per work instructions	. Accceptal	ole rege	n of white	birch, aspen, ma	ple, white pine, sp	ruce and balsam.	
Propo	_ osed_	/01/201	4								
imiti	ng Factor		2B: l	Jnknown if access thre	ough adjace	ent land	owner(s) is	s possible			
85	42085085	-Cut	26.0	4199 - Other Mixed Upland Deciduous	High Density Log	87	141- 170	Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Revie Proposal
Presc Spece				es. Retain 3-5 health n retention patches. N						to 5% of stand acreage.	Leave a
<u>)ther</u>	Ac 2 Ac	cess is	through p	rivate land is question	able due to	recent	and sales.	. Possible acces	s through another	adjacent land owner.	
<u>Vext</u> Steps	Re	generat	ion check	per work instructions	. Acceptabl	e regen	of white b	birch, aspen, map	ble, balsam and wh	ite pine.	
	<u>osed</u> Date: 10	/01/201	1								
	ng Factor	01/201		Jnknown if access thre	ough adjace	ent land	owner(s) is	s possible			
95	42085095	-Cut	26.8	6122 - Black Spruce	High Density Pole	83	111- 140	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Reviev Proposal
Presc Spece				es. Retention to be in Maintain a 200 foot b	pockets du			l potential for blov	wdown of individua	I trees. Retention not to	exceed 5%
<u>Other</u> Comr	<u>nent:</u>										
<u>Vext</u> Steps		generat	ion check	per work instructions	. Acceptabl	e regen	of spruce	with a mix of bal	sam, maple, asper	n, white birch and white	pine.
	<u>osed</u> Date: 10	/01/201	4								
imiti	ng Factor		2B: l	Jnknown if access three	ough adjace	ent land	owner(s) is	s possible			
	Total Tre	atment	99.								

# Report 5 – Site Conditions

Newberry Mgt. Unit

### Jason Tokar : Examiner

Compartment 085 Year of Entry 2015

#### Availability for Management

		nanagomoni						
Total	Acres	Acres	De	ominai	nt Site	e Cone	dition	S
Acres	Available	Not Available		No	5C	5B	3G	2B
555	548	7	Aspen	522	27		7	
298	298		Cedar	298				
14	14		Hemlock	14				
21	21		Lowland Aspen/Balsam Poplar		21			
126	126		Lowland Conifers	40				86
73	73		Lowland Deciduous	73				
87	87		Lowland Spruce/Fir	38	22			27
141	141		Mixed Upland Deciduous	105	9			26
258	258		Northern Hardwood	247		11		
38	38		Paper Birch					38
111	111		Red Pine	111				
18	18		Upland Conifers	18				
63	63		Upland Spruce/Fir	63				
25	25		White Pine			25		
1,827	1,820	7	Total Forested Acres	1,528	79	36	7	177
	100%	0%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
004	Available	2B: Unknown if access through adjacent landowner(s) is possible	80				
(	Comments:						
008	Available	2B: Unknown if access through adjacent landowner(s) is possible	73				
(	Comments:						

Report	5 – Site	Conditions
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Compartment 085 Year of Entry 2015

Newberry Mgt. Unit Jason Tokar : Examiner

009	Available	5B: Retention for regeneration purposes	25						
	<b>Comments:</b> Stand treated via shelterwood harvest as sale #029-05. Stand is in the process of regenerating.								
010	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21						
C	omments:								
011	Available	5B: Retention for regeneration purposes	11						
С	omments:								
012	Not Available	3G: Other Influence zones - See comments	7						
	omments: arrow stand on hi	illside adjacent to Co Rd 407 RC	DW. Between county road and p	rivate residence. No approach to the road, low volumes.					
013	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7						
	omments: ocket of spruce w	vithin a large aspen harvest.							
014	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6						
С	omments:								

Newberry Mgt. Unit Jason Tokar :Examiner				Report 5 – Site Conditions	Compartment 085 Year of Entry 2015
015	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9		
Co	mments:				
017	Available	2B: Unknown if access through adjacent landowner(s) is possible	8		
Co	mments:				
018	Available	2B: Unknown if access through adjacent landowner(s) is possible	10		
Co	mments:				
019	Available	2B: Unknown if access through adjacent landowner(s) is possible	7		
Co	mments:				
020	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9		
Co	mments:				

		wberry Mgt. Unit n Tokar : Examiner		Report 5 – Site Conditions	Compartment 085 Year of Entry 2015
021	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	No Limiting Factor	
	omments:				
		elayed due to request by wildlife for to 2025 YOE. Otherwise stand			eriodically. If the stand begins to decline, it will be set



#### 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
Comp 85 SCA removal Comments	Other SCA		SCA Removal	13.8
Doesn't meet SCA criteria -	old stand condition 8			
Comp 85 SCA removal	Other SCA		SCA Removal	17.6
<b>Comments</b> Remove from SCA - old star	nd condition 8. Possible future mana	gement with access from the east.		
Comp 85 Removal - covered by ERA	Other SCA		SCA Removal	28.7
<b>Comments</b> SCA removal - Area is alread	dy covered by ERA designation and	shown by ERA layer.		
Comp 85 SCA removal	Other SCA		SCA Removal	89.4
Comments Doesn't meet SCA criteria - o	old stand condition 8			
Comp 85 SCA removal	Other SCA		SCA Removal	192.9
Comments Remove from SCA - old star	nd condition 8. Possible future lowlar	nd management with access from th	e east.	
Comp 85 SCA Removal	Other SCA		SCA Removal	206.6
<b>Comments</b> Doesn't meet SCA criteria - o	old stand condition 8			



# 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.

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 oxygen conditio stocked trout populations and those of other coldwater fish speci 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	es to persist from year to year. Suitable ay 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.	es (e.g., slimy sculpin) to persist from se conditions due to substantial
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 of communities are ecologically and socially significant in their effect as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, liversity of plants and wildlife. Riparian cts on water quality and quantity, as well
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of identified as Element Occurrences (EOs) by the Michigan Natura context of their natural community classification system. Element (Excellent) or B (Good) and a Global (G) or State (S) element (ra threatened (2), or rare (3) serve as an initial base of ERAs. They the State. The system is comprised of individual or associations managed for restoration and maintenance of natural ecological p submit recommendations for lands as ERAs using the DNR Cons	Il Features Inventory (MNFI) within the t Occurrences with viability ranks of A rity) ranking of endangered (1), may be located upon any ownership in of natural community types that are processes and values. The public may

S t				Report 8	– Forested	Stands Compartment: 085 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42110 - Planted Red Pine	High Density Log	103.9	62	171-200	Red pine plantation. Planted in early 1950's (1951). Thinned as sales #033-95-01 and \$41-97-02, both completed in 1997. Red pine diameters average 14 inch dbh, ranging from 8 and 9 inches up to 16-18 inches. Scattered white pine and red maple in areas. Healthy stand. Diameters getting to the point of final harvest.
2	4139 - Aspen, Mixed Deciduous	High Density Sapling	17.2	16		Stand harvested in 1997. Not a clean cut. Access to the area is now cut off by the private owner to the west.
3	4111 - S.Maple, Hard Mast Association	High Density Pole	5.1	80	81-110	Low quality hard maple. Multiple stems, maple borer damage, decline and top dieback. Open in a few spots. Large diameter aspen mixed in. Beech component is dying out due to BBD. Single stem hard maple has some better quality.
4	42110 - Planted Red Pine	High Density Log	7.5	64	141-170	Large diameter red pine and white pine with red maple, aspen, white birch and some balsam. This portion of the plantation was cut through as it was thought it had failed. Larger diameter red pine than main portion of the plantation. Advanced understory, scattered large diameter aspen.
5	4136 - Aspen, Mixed Conifer	High Density Pole	4.8	34		Stand was cut in 1979. Portion of the red pine plantation that had failed and was cut for aspen management. Mix of species regenerating (aspen, maple, birch, cherry, balsam, etc). Some residual, large diameter, overstory of red pine and white pine.
6	6116 - Lowland Birch	High Density Pole	7.8	81		
7	4136 - Aspen, Mixed Conifer	High Density Pole	5.2	34		Stand was cut in 1979. Portion of the red pine plantation that had failed and was cut for aspen management. Mix of species regenerating (aspen, maple, birch, cherry, balsam, etc). Some residual, large diameter, overstory of red pine and white pine.
8	4134 - Aspen, Spruce/Fir	High Density Pole	14.3	43	51-80	Stand was harvested in 1969.
10	4130 - Aspen	High Density Log	17.1	64	141-170	Large diameter, mature Big Tooth Aspen, tall heights. Smaller hard maple and white birch throughout. Some log size white birch. Multiple stem maple, showing dieback and decline. Beech component infested with BBD. Large diameter balsam in the stand is snapping off and dying out.
11	6116 - Lowland Birch	High Density Pole	9.9	81		
13	6122 - Black Spruce	Medium Density Pole	3.4	79	51-80	Small pocket of black spruce on low, bog ground. Small diameters, semi open canopy.
14	4136 - Aspen, Mixed Conifer	High Density Pole	3.6	77	81-110	Stand was part of sale #030-05. Was never cut, sale was closed. Sale boundary is still visible. Ridge of mature aspen. Showing signs of mortality throughout stand. Up to half of the aspen is dead in spots. Component of white birch, red maple, balsam , spruce and some white pine. Some dead tops in white birch. Fair amount of blowdown in the stand.

S t	Newberr		Report 8	– Forested	Stands Compartment: 085 Year of Entry: 2015	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	4139 - Aspen, Mixed Deciduous	High Density Pole	42.6	47		Pole size aspen stand with white birch, red maple, balsam, white spruce, black spruce, and white pine. Nice mixed stand, young stand. Nice regeneration. Some areas with larger diameter aspen and white birch, slightly older than rest of aspen. Areas with juneberry in the understory. Areas of lower ground in northern part and eastern part of the stand.
17	4136 - Aspen, Mixed Conifer	High Density Pole	60.1	46		Pole size aspen stand with white birch, maple, black cherry, balsam, white spruce, and white pine. Nice mixed stand, young stand. Nice regeneration. Some areas with larger diameter aspen and white birch. Areas with juneberry in the understory.
18	6129 - Mixed Coniferous Lowland Forest	High Density Pole	79.5	81		
20	6122 - Black Spruce	High Density Pole	4.0	83	111-140	Low ground black spruce with cedar, red maple, white birch and aspen. Primarily black spruce, pole size. Wet.
21	6122 - Black Spruce	Medium Density Pole	8.6	83	51-80	Low ground black spruce with some cedar and white pine. Occasional white birch. Stand has higher density in the southern portion of the stand. Very wet stand.
22	4136 - Aspen, Mixed Conifer	High Density Pole	6.0	77	81-110	Stand was part of sale #030-05. Was never cut, sale was closed. Sale boundary is still visible. Ridge of mature aspen. Showing signs of mortality throughout stand. Up to half of the aspen is dead in spots. Component of white birch, red maple, balsam , spruce and some white pine. Some dead tops in white birch. Fair amount of blowdown in the stand.
23	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	19.1	82	111-140	Mixed stand with areas of higher ground near Co Rd 407. Wet areas with mainly cedar and spruce. Eastern portion of the stand is mix of red maple, cedar, hemlock. Stand is primarliy low ground with a high component of cedar and other conifers. Small drainage runs east/west through the stand.
24	4110 - Sugar Maple Association	High Density Log	2.2	82	81-110	Stand thinned in 2007 as sale #036-05. Nice hard maple sawlog stand. Good regeneration of maple, with pockets of aspen, starting to establish.
25	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	17.1	91	81-110	Stand was part of sale #030-05. Was never cut, sale was closed. Sale boundary is still visible. Ridge of mature aspen along the marsh and some lower ground aspen. Showing signs of mortality throughout stand. Up to half of the aspen is dead in spots. Component of red maple, balsam, spruce, white pine and some hemlock. Fair amount of blowdown in the stand.
28	6122 - Black Spruce	High Density Pole	5.7	81	111-140	Low ground black spruce with cedar, red maple, white birch and aspen. Primarily black spruce, pole size. Wet.
29	4130 - Aspen	High Density Sapling	29.0	6		Stand was harvested in 2007 as sale #036-05. Good aspen regeneration with component of white birch, red maple, cherry. 10-20 ft tall.

S	Newberry Mgt. Unit			Report 8	– Forested	Stands Compartment: 085 Year of Entry: 2015
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	6120 - Lowland Cedar	High Density Pole	25.7	95	111-140	Cedar stand with a component of spruce, balsam, white birch and red maple. Good cedar regeneration throughout the stand. No deer browse problems. Regeneration of all heights, from 2 ft up to 10 ft tall. Old notes stand the stand was cut through (high graded) in the past
31	4130 - Aspen	High Density Pole	19.1	38	81-110	Stand was harveted in 1977. Aspen stand (primarily big tooth aspen with some quaking) with red maple and white birch. Nice tall aspen, large diameter for the age of the stand in some areas, up to 12 inche dbh.
32	42350 - Upland Hemlock	Medium Density Log	14.1	95		Stand was cut in 2008 as sale #030-05. This was the only unit of the sale that got harvested. All aspen, spruce, balsam and maple removed from the stand. Retained hemlock, cedar and white pine. Stand is now a stand of mature hemlock and white pine over nice red maple, balsam, birch regeneration.
33	4115 - Y.Birch, Hemlock NH	High Density Log	7.8	85	111-140	Red maple with hemlock, white pine, balsam and yellow birch. Red maple has some quality, fairly tall. Ridges through the stand. Yellow birch regeneration in open areas, balsam understory throughout most of the stand.
34	6122 - Black Spruce	Medium Density	11.2	47		
35	429 - Mixed Upland Conifers	High Density Log	17.7	95	81-110	Stand was cut in 1995. Sale was not complete, but was closed. Some areas are thick to mature hemlock mixed with maple and others are more open with good regeneration af maple, hemlock and balsam.
36	4110 - Sugar Maple Association	High Density Log	55.9	82	81-110	Stand thinned in 2007 as sale #036-05. Nice hard maple sawlog stand. Good regeneration of maple, with pockets of aspen, starting to establish.
37	6124 - Lowland Spruce- Fir	High Density Sapling	13.1	26		Stand was harvested in 1987 as sale #087-84. Regeneration is a mix of lowland species. Black spruce, balsam, cedar, tamarack, occasional white pine, red maple and white birch.
38	6129 - Mixed Coniferous Lowland Forest	High Density Pole	7.0	81		
39	4116 - Mixed N. Hardwood - Aspen	High Density Sapling	9.7	15		Stand was harvested in 1998 as sale #38-95. Real mix of regeneration. Aspen, maple, cherry, white birch, some spruce, balsam and white pine
40	4116 - Mixed N. Hardwood - Aspen	High Density Sapling	13.4	27		Stand harvested in 1986. Red maple, sugar maple, aspen, cherry, balsam, spruce regeneration. Very thick stand, beginning to transition from a sapling stand to a pole size stand.
41	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	22.9	74	81-110	Lowland red maple, large diameter aspen and balsam poplar, cedar and some black spruce. Wet ground. Thick understory. Scattered large diameter white pine, some black ash in pockets. A few yellow birch

S t	Newberry Mgt. Unit			Report 8	– Forested	Stands Compartment: 085 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	6122 - Black Spruce	High Density Pole	7.4	83	51-80	Low ground pocket of black spruce with some red maple and white pine.
44	6120 - Lowland Cedar	High Density Pole	47.0	93	141-170	Mixed stand of cedar with black spruce, balsam, some hemlock, and red maple. Wet stand. Pockets of thick cedar.
45	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	22.7	91	81-110	Stand was part of sale #030-05. Was never cut, sale was closed. Sale boundary is still visible. Mature aspen, lower ground. Showing signs of mortality throughout stand. Up to half of the aspen is dead in spots. Component of red maple, balsam, spruce, white pine and some balsam poplar. Scattered cedar. Fair amount of blowdown in the stand. Large diameter aspen, very tall.
46	4130 - Aspen	High Density Log	48.0	68	141-170	Mature aspen stand. Large diameter aspen (10-15 inches), very tall. Some aspen showing signs of decline and mortality. Good maple component as well as balsam, white birch, and some white spruce and white pine. **old notes state the area/stand was cut over in teh early 60's and recommended harvesting in 2005. Was held for 10 yrs for age class diverstiy. ORV trail runs through the stand.
47	4139 - Aspen, Mixed Deciduous	High Density Pole	42.2	26	51-80	Stand harvested in 1987. Young aspen stand with white birch, red maple, white pine, cherry. Stand is transitioning from a sapling stand to a pole size stand. Scattered larger diameter white birch and maple. Large diameter white pine as well.
49	4130 - Aspen	High Density Sapling	2.0	26		
50	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	31.0	66	111-140	Stand of red maple and balsam with a high component of large diameter aspen. White pine and white birch as well. Pockets of spruce. Red maple is mostly low quality. Aspen is showing signs of rot and mortality. Pockets thicker to balsam and others thicker to red maple and aspen. Southern portion of the stand has an area that is more open. Wet drainage rusn through the stand.
51	4110 - Sugar Maple Association	High Density Pole	58.3	82	111-140	Sugar maple stand with large diameter aspen in pockets. Primarily a pole size stand with areas of larger diameter maple. Some areas of multi stem maple, lower quality. Beech and balsam in stand. Beech is low quality (BBD). Some maple borer damage. Rolling topography.
52	4139 - Aspen, Mixed Deciduous	High Density Log	17.5	70	141-170	Large diameter aspen with good maple component (both sugar and red maple). Balsam and white birch as well. Aspen is tall, large diameter and mature. Areas of mortality. Maple in the stand is multiple stem and lower quality.
53	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	10.2	74	81-110	Lowland red maple, large diameter aspen and balsam poplar, cedar and some black spruce. Wet ground. Thick understory. Scattered large diameter white pine, some black ash in pockets. A few yellow birch
54	4130 - Aspen	High Density Sapling	14.3	13		Stand was harvested in 1997 as sale #047-95. Aspen with red maple, balsam, white birch.

S t	Newberr	y Mgt. Unit		Report 8	– Forested	Stands Compartment: 085 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
56	4112 - Maple, Beech, Cherry Association	High Density Pole	6.5	80	81-110	Red maple stand with balsam. Large diameter white pine. Small acreage.
58	4112 - Maple, Beech, Cherry Association	High Density Pole	3.8	85	81-110	Red maple pole stand, with component of hemlock and some white pine along stand edges. Tall red maple poles with a few sawlog size trees. Many of the trees have top dieback. Thick balsam understory.
59	4130 - Aspen	High Density Log	3.5	70	111-140	Large diameter aspen with good maple component. Balsam and white birch as well. Aspen is tall, large diameter and mature. Stand lies at the top of a steep slope. Small acreage stand of mature aspen between younger aspen and northern hardwoods stands.
60	4130 - Aspen	High Density Sapling	70.6	27		Stand harvested in 1986. Norhtern portion of the stand was a separate sale (086-84), has more scattered residual. South part of the stand was originally a firewood cutting and then a free timber permit. Regeneration is a mix of species, primarily an aspen stand with maple, birch, cherry, balsam, spruce and white pine. Abandoned road into the stand is grown closed with balsam and white pine.
61	4112 - Maple, Beech, Cherry Association	High Density Pole	9.1	93	51-80	Stand thinned in 2008 as sale #037-05. Mainly red maple with balsam component. Some black cherry.
62	6122 - Black Spruce	Medium Density Pole	3.4	87	51-80	Small diameter black spruce stand. Eastern portion of the stand is more open bog ground.
63	4112 - Maple, Beech, Cherry Association	High Density Pole	8.7	80	111-140	Narrow stand of red maple with black cherry and large diameter aspen. Better quality is in the southern portion fo the stand. Thick balsam understory throughout. Scattered hard maple. ORV trail runs through the stand.
64	4199 - Other Mixed Upland Deciduous	High Density Sapling	32.5	5		Stand harvested in 2008 as sale #037-05. Regenerating nicely to aspen, red maple, pin cherry primarily. Skid trails and roads are filling in with white pine as well, 1-2 ft tall. Thick regeneration. Residual mature white pine mainly in the western half of the stand.
65	42200 - Natural White Pine	Medium Density Log	25.1	105	51-80	Stand was harvested via shelterwood in 2009 as sale #029-05. Red maple, aspen, white birch, beech, spruce, balsam was removed. Stand has good regeneration of maple, cherry, aspen and some white pine.
66	4116 - Mixed N. Hardwood - Aspen	High Density Pole	4.9	82	81-110	Small diameter red maple with large diameter aspen. Balsam and cherry. Quality decreases in northern portion of the stand. Aspen is showing decline, mature. Narrow stand along Co Rd 407. Hilly in southern end.
67	4112 - Maple, Beech, Cherry Association	Medium Density Pole	3.6	93	51-80	Stand thinned in 2008 as sale #037-05. Red maple with balsam, spruce and cherry. Some large aspen retained along the road.

S t	Newberry	Newberry Mgt. Unit			– Forested	Stands Compartment: 085 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
68	42310 - Planted Spruce	High Density Pole	52.1	51	51-80	Planted in 1962. Mainly spruce with a minor component of aspen and red maple throughout. Scattered white pine as well. Much of the spruce is small diameter still. 3-4 sticks merchantable in many areas, some pockets of shorter spruce and even submerchantable spruce.
69	4134 - Aspen, Spruce/Fir	High Density Pole	17.5	61	111-140	This stand is a portion of teh spruce plantation that failed as a spruce stand. Planted in 1962, most of the spruce is stunted, small diameter. Stand is a mix of aspen, red maple, small spruce, balsam and large white pine. Aspen is declining, poor quality maple, stunted spruce.
71	42310 - Planted Spruce	High Density Pole	10.5	51		Planted in 1962. Mainly spruce with a minor component of aspen and red maple throughout. Scattered white pine as well. Much of the spruce is small diameter still. 3-4 sticks merchantable in many areas, some pockets of shorter spruce and even submerchantable spruce.
72	4139 - Aspen, Mixed Deciduous	High Density Sapling	45.3	5		Stand was harvested in 2008 as sale #029-05. Regenerating to a mix of aspen, maple, cherry, balsam and white birch. Residual white pine, spruce, cedar. Nice thick regeneration.
74	4112 - Maple, Beech, Cherry Association	Medium Density Pole	39.8	87	51-80	Stand was thinned/shelterwood cut in 2009 as sale #029-05. Beech Bark Disease was prevalent, all beech was removed from the stand. Maple and other species were thinned. Areas of the stand are now more open due to amount of beech removed. Thick regeneration of beech, maple, and some cherry and aspen in the open areas. Some yellow birch regeneration West of the old grade the residual BA of maple is higher and more of a balsam and maple understory.
75	4130 - Aspen	High Density Sapling	11.1	17		Stand was cut in 1996 as sale #010-95. Nice aspen regeneration with red maple. Very thick stand. Subcanopy of red maple, cherry and a few balsam.
76	4139 - Aspen, Mixed Deciduous	High Density Sapling	20.2	5		Stand harvested in 2008 as sale #037-05. Stand was a portion of the spruce plantation that failed and therefore harvested for aspen management. Current regeneration is a mix of aspen, pin cherry, red maple and some balsam. Thick regeneration 10-15 ft tall average.
77	4139 - Aspen, Mixed Deciduous	High Density Pole	7.3	70	51-80	Narrow stand of aspen, red maple and black cherry along the east shoulder of Co Rd 407. Short height in aspen. Very thick understory of maple, aspen and balsam. Low quality maple. Travel influence zone.
79	6122 - Black Spruce	High Density Pole	16.3	66	51-80	Black spruce, small diameters. Areas of more saspling size spruce and cedar and very wet.
80	4130 - Aspen	High Density Pole	26.6	70	81-110	<ul> <li>Mature aspen, showing decline. Component of red maple, black cherry, white pine and white spruce. Stand is semi open in areas with a thick understory of maple, cherry and balsam.</li> <li>Pockets of more maple. Southwest portion fot eh stand is more open. Aspen averaging 4 sticks merchantable height.</li> </ul>

Newberry Mgt. Unit t			Report 8	– Forested	Stands Compartment: 085 Year of Entry: 2015
Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4130 - Aspen	High Density Pole	10.5	38		Stand was harvested in 1975. Part of a large cut that extends into compartments 89 and 90. Young aspen with component of red maple, black cherry, balsam,spruce, white pine, white birch. large diameter white pine and white spruce throughout. Transitioned from sapling stand to pole stand.
4140 - Other Upland Deciduous	High Density Pole	20.2	87	141-170	White birch with white spruce and red maple and large diameter aspen. Balsam and red maple in the understory. Birch and aspen are mature, showing signs of decline. Access through private land, could be questionable due to recent land sales.
4199 - Other Mixed Upland Deciduous	High Density Log	26.0	87	141-170	Birch ridge, steep in spots. Mix with red maple, large aspen, beech and balsam. Large diameter white pine. Birch and aspen showing decline and mortality. Red maple is lower quality. Thick balsam understory in many areas. Small pockets of red maple (M6).
4110 - Sugar Maple Association	High Density Log	18.1	82	81-110	Stand was thinned in 2009 as sale #029-05. Most of the beech was removed. Good regeneration coming up alreadymaple, cherry, beech and aspen.
4112 - Maple, Beech, Cherry Association	High Density Log	10.7	82	111-140	Primarily a beech stand. Good hard maple and red maple component. Thick beech understory. Beech scale throughout the stand, even on the saplings. Farily steep slope on the south side of the stand. There is a beech scale (BBD) monitoring plot within the stand.
4199 - Other Mixed Upland Deciduous	High Density Sapling	41.7	4		<ul> <li>Stand harvested in 2009 as sale #029-05. Regeneration is a mix of aspen, maple, cherry, white birch, balsam, white pine.</li> <li>Residual pole size maple, birch, black cherry and white pine.</li> <li>Stand has alot of species diversity currently. The stand was originally cut in 1979 (07-79) and was not a "clean" cut.</li> </ul>
6120 - Lowland Cedar	High Density Pole	17.5	110	111-140	
6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	7.6	71		
6112 - Lowland Aspen	High Density Pole	21.4	69		
6122 - Black Spruce	High Density Pole	26.8	83	111-140	Mainly spruce with red maple, balsam and white birch. Old notes say stand was cut in early 1930's. large white pine throughout. Pockets of older birch and aspen.
4199 - Other Mixed Upland Deciduous	High Density Pole	9.3	87	111-140	
6120 - Lowland Cedar	High Density Pole	207.6	110		
	Level 4 Cover Type 4130 - Aspen 4140 - Other Upland Deciduous 4199 - Other Mixed Upland Deciduous 4110 - Sugar Maple Association 4112 - Maple, Beech, Cherry Association 4199 - Other Mixed Upland Deciduous 6120 - Lowland Cedar 6120 - Lowland Cedar 6112 - Lowland Aspen 6112 - Lowland Aspen 6112 - Black Spruce	Level 4 Cover TypeSize Density4130 - AspenHigh Density Pole41140 - Other Upland DeciduousHigh Density Pole41190 - Other Mixed Upland DeciduousHigh Density Log4110 - Sugar Maple AssociationHigh Density Log4110 - Sugar Maple AssociationHigh Density Log4110 - Sugar Maple AssociationHigh Density Log6120 - Maple Upland DeciduousHigh Density Density Log6120 - Lowland CedarHigh Density Pole6112 - Lowland Aspen ForestHigh Density Pole6122 - Black Spruce Upland DeciduousHigh Density Pole6120 - Lowland CedarHigh Density Pole6121 - Dother Mixed ForestHigh Density Pole6112 - Lowland CedarHigh Density Pole6122 - Black SpruceHigh Density Pole6120 - Lowland CedarHigh Density Pole6120 - Lowland CedarHigh Density Pole6120 - Lowland CedarHigh Density Pole	Level 4 Cover TypeSize DensityAcres4130 - AspenHigh Density Pole10.54140 - Other Upland DeciduousHigh Density Pole20.24199 - Other Mixed Upland DeciduousHigh Density Log26.04110 - Sugar Maple AssociationHigh Density Log18.14112 - Maple, Beech, Cherry AssociationHigh Density Log10.74199 - Other Mixed Upland DeciduousHigh Density Log10.76120 - Lowland Cedar ForestHigh Density Density Pole17.56112 - Lowland Cedar ForestMedium Density Pole7.66112 - Lowland Aspen High Density Pole21.46112 - Black SpruceHigh Density Pole26.84199 - Other Mixed Upland DeciduousHigh Density Pole26.86112 - Lowland CedarHigh Density Pole26.86112 - Lowland Aspen High Density Pole9.34199 - Other Mixed Upland DeciduousHigh Density Pole207.6	Level 4 Cover TypeSize DensityAcresStand Age4130 - AspenHigh Density Pole10.5384140 - Other Upland DeciduousHigh Density Pole20.2874199 - Other Mixed Upland DeciduousHigh Density Log26.0874110 - Sugar Maple AssociationHigh Density Log18.1824112 - Maple, Beech, Cherry AssociationHigh Density Log10.7824199 - Other Mixed Upland DeciduousHigh Density Pole10.7826120 - Lowland CedarHigh Density Pole17.51106120 - Lowland CedarMedium 	Level 4 Cover TypeSize DensityAcresStand AgeBA Range4130 - AspenHigh Density Pole10.5384140 - Other Upland DeciduousHigh Density Pole20.287141-1704199 - Other Mixed Upland DeciduousHigh Density Log26.087141-1704110 - Sugar Maple AssociationHigh Density Log18.18281-1104112 - Maple, Beech, Cherry AssociationHigh Density Log10.782111-1404199 - Other Mixed Upland DeciduousHigh Density Saping10.7446120 - Lowland CedarHigh Density Pole7.671111-1406112 - Lowland CedarHigh Density Pole7.671111-1406112 - Lowland AspenHigh Density Pole26.883111-1406112 - Dowland AspenHigh Density Pole26.883111-1406112 - Lowland AspenHigh Density Pole26.883111-1406112 - Lowland CedarHigh Density Pole26.883111-1406120 - Lowland CedarHigh Density Pole27.6110111-1406120 - Lowland CedarHigh Density Pole20.687111-1406120 - Lowland CedarHigh Density Pole20.6110111-140

Newberry Mgt. Unit

Compartment: 085

Year of Entry: 2015

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Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
11 - Low Intensity Urban	1.5	No	Unspecified	County Road 415 and cleared ROW
6229 - Mixed lowland shrub	2.8	No	Unspecified	
11 - Low Intensity Urban	5.4	No	Unspecified	County Road 407 and cleared ROW
6225 - Bog	2.1	No	Unspecified	Small bog with beaver pond
6239 - Mixed Emergent Wetland	23.8	No	Unspecified	
11 - Low Intensity Urban	1.9	No	Unspecified	County Road 415 and cleared ROW
6239 - Mixed Emergent Wetland	35.5	No	Unspecified	
6229 - Mixed lowland shrub	2.1	No	Unspecified	
622 - Lowland Shrub	1.1	Unspecified	Unspecified	
50 - Water	1.2	Unspecified	Unspecified	
6224 - Treed Bog	3.5	No	Unspecified	
11 - Low Intensity Urban	4.7	No	Unspecified	Count Road 407 and cleared ROW
11 - Low Intensity Urban	1.3	No	Unspecified	County Road 422 and cleared ROW
6224 - Treed Bog	3.6	No	Unspecified	
6225 - Bog	14.1	No	Unspecified	Bog with small pond in SE corner, beaver activity
6224 - Treed Bog	7.7	No	Unspecified	
6225 - Bog	7.1	No	Unspecified	
50 - Water	3.3	No	Unspecified	East end of Cleveland Cliffs Lake
	11 - Low Intensity Urban         6229 - Mixed Iowland shrub         11 - Low Intensity Urban         6225 - Bog         6239 - Mixed Emergent Wetland         11 - Low Intensity Urban         6239 - Mixed Emergent Wetland         6239 - Mixed Emergent Wetland         6229 - Mixed Iowland shrub         6224 - Treed Bog         11 - Low Intensity Urban         11 - Low Intensity Urban         6224 - Treed Bog         6225 - Bog         6225 - Bog         6225 - Bog	11 - Low Intensity Urban       1.5         6229 - Mixed Iowland shrub       2.8         11 - Low Intensity Urban       5.4         6225 - Bog       2.1         6239 - Mixed Emergent Wetland       23.8         11 - Low Intensity Urban       1.9         6239 - Mixed Emergent Wetland       35.5         6229 - Mixed Iowland shrub       2.1         6229 - Mixed Iowland shrub       1.1         50 - Water       1.2         6224 - Treed Bog       3.5         11 - Low Intensity Urban       1.3         6224 - Treed Bog       3.6         6225 - Bog       14.1         6225 - Bog       7.7         6225 - Bog       7.1	Cover TypeAcresSite11 - Low Intensity Urban1.5No6229 - Mixed Iowland shrub2.8No11 - Low Intensity Urban5.4No6225 - Bog2.1No6239 - Mixed Emergent Wetland23.8No11 - Low Intensity Urban1.9No6239 - Mixed Emergent Wetland35.5No6229 - Mixed Emergent Wetland35.5No6229 - Mixed Iowland shrub2.1No6229 - Mixed Iowland shrub2.1No6224 - Lowland Shrub1.1Unspecified50 - Water1.2Unspecified50 - Water1.2Unspecified6224 - Treed Bog3.6No11 - Low Intensity Urban1.3No6225 - Bog14.1No6225 - Bog7.7No6225 - Bog7.1No	Cover TypeAcresSite(Objective)11 - Low Intensity Urban1.5NoUnspecified6229 - Mixed Iowland shrub2.8NoUnspecified11 - Low Intensity Urban5.4NoUnspecified6225 - Bog2.1NoUnspecified6239 - Mixed Emergent Wetland23.8NoUnspecified6239 - Mixed Emergent Wetland35.5NoUnspecified6229 - Mixed Iowland shrub2.1NoUnspecified6229 - Mixed Iowland shrub2.1NoUnspecified6229 - Mixed Iowland shrub2.1NoUnspecified6229 - Mixed Iowland shrub2.1NoUnspecified6229 - Mixed Iowland shrub1.1UnspecifiedUnspecified6224 - Treed Bog3.5NoUnspecified11 - Low Intensity Urban1.3NoUnspecified11 - Low Intensity Urban1.3NoUnspecified6224 - Treed Bog3.6NoUnspecified6225 - Bog14.1NoUnspecified6225 - Bog7.7NoUnspecified6225 - Bog7.1NoUnspecified

Compartment: 085 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
96	6229 - Mixed lowland shrub	7.5	No	Unspecified	
98	6229 - Mixed lowland shrub	47.1	No	Unspecified	Headwaters of Auger Creek
100	6229 - Mixed lowland shrub	3.0	No	Unspecified	Auger Creek runs through stand