

Revision Date: 9/14/2011

Stand Examiner: Keith Magnusson

Legal Description: T49N R9W Sections 7, 8, 17 & 18

RMU (**if applicable**): Compartment 34 is located within the Deer Park Management Area. For further description of this management unit go to the following web site: <u>http://www.midnr.com/publications/pdfs/forestslandwater/Ecosystem/EUP/final-</u> <u>MAsummaries/09_Deer_Park_MA_summary.pdf</u>

Management Goals: To maintain forest health, diversity and sustainability while considering wildlife, fisheries, recreation and environmental needs and concerns.

Soil and Topography: The soil type is predominately Rubicon sand. The topography is mostly level to rolling throughout the compartment with areas of steep sand banks along the Two Hearted River.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment is entirely State owned and is almost entirely surrounded by State land. There is a private 40 acre parcel with a seasonal cabin to the northwest of the compartment. The compartment is adjacent to the Two Hearted River which is designated as a Natural River. The area is used heavily for recreation activity such as camping, hiking, canoeing, fishing, ORV riding and some hunting. The area has also been historically used for timber production.

Unique, Natural Features: The Two Hearted River and its corridor is a unique and natural feature to the area. The Two Hearted River has been designated as a Natural River and there was a natural river plan adopted as to how to manage land around the river. Michigan Natural Features Inventory lists the potential for wood turtle, grasshopper sparrow and hill's thistle to occur within the compartment. The inventory also lists the eastern portions of section 8 in this compartment as pine barrens.

Archeological, Historical, and Cultural Features: None Listed.

Special Management Designations or Considerations: Special considerations must be made for timber management around the Two Hearted River. Follow the Two Hearted River Natural River Plan.

Watershed and Fisheries Considerations:

Fisheries Values: Excellent

Fisheries Concerns: The East Branch Big Two-Hearted River runs along the entire western end of the compartment. The East Branch Big Two-Hearted River has an excellent natural population of brook trout, steelhead and salmon fishing. The terrain adjacent to the river serves as an excellent buffer to any treatments to the east, making treatments in the adjacent stands difficult. The prescribed treatments need to follow Natural River BMP's in all adjacent areas to the East Branch Big Two-Hearted River.

Wildlife Habitat Considerations: Compartment 34 lies in north central Luce county and lies in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment is almost entirely jack pine and the western border is the Two-hearted River which provides an excellent wildlife travel corridor.

In a predominantly pine forested ecosystem, maintaining a variety of age and size classes and maintaining as much structural diversity as possible in managed stands will be important to achieving wildlife objectives. For example, retaining soft and hard mast producing species where they exist in harvested stands will help provide food sources, nest and den trees, and improve structural diversity of the stands. Species diversity will increase wildlife diversity and thus a variety of non jack pine species will be retained after final harvests such as aspen (for food sources for birds, snags for cavity nesting birds and mammals) and maple (for multi canopy layering for mid canopy nesting birds) and oak for mast production for deer and squirrels. Kirtland warbler, a featured species in the compartment, will benefit from the maintenance of young jack pine in the compartment.

Mineral Resource and Development Concerns and/or Restrictions:

Sections 7, 8, 17 and 18, T49N-R9W, Luce County

Surface sediments consist of lacustrine (lake) sand and gravel. 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. There are no gravel pits in the area, and potential appears to be limited. There is no economic oil and gas production in the UP.

Vehicle Access: Vehicle access into compartment exists from two tracks leading from county roads 414 and 423. Most roads are sand two tracks.

Survey Needs: None at this time.

Recreational Facilities and Opportunities: There are campgrounds in close proximity to this compartment. The Two-Heart ORV Trail runs through middle of the compartment along with a snowmobile trail that touches the south boundary of the compartment. Hunting, wildlife viewing, dog sledding and berry picking are frequent recreational uses of the land within the compartment. Fishing and canoeing opportunities exist in the Two Hearted River and it is a fairly popular destination for those users. The Rainbow Lodge is very close to this compartment. It is a local business that offers a store, camping/lodging activities as well a canoe livery service.

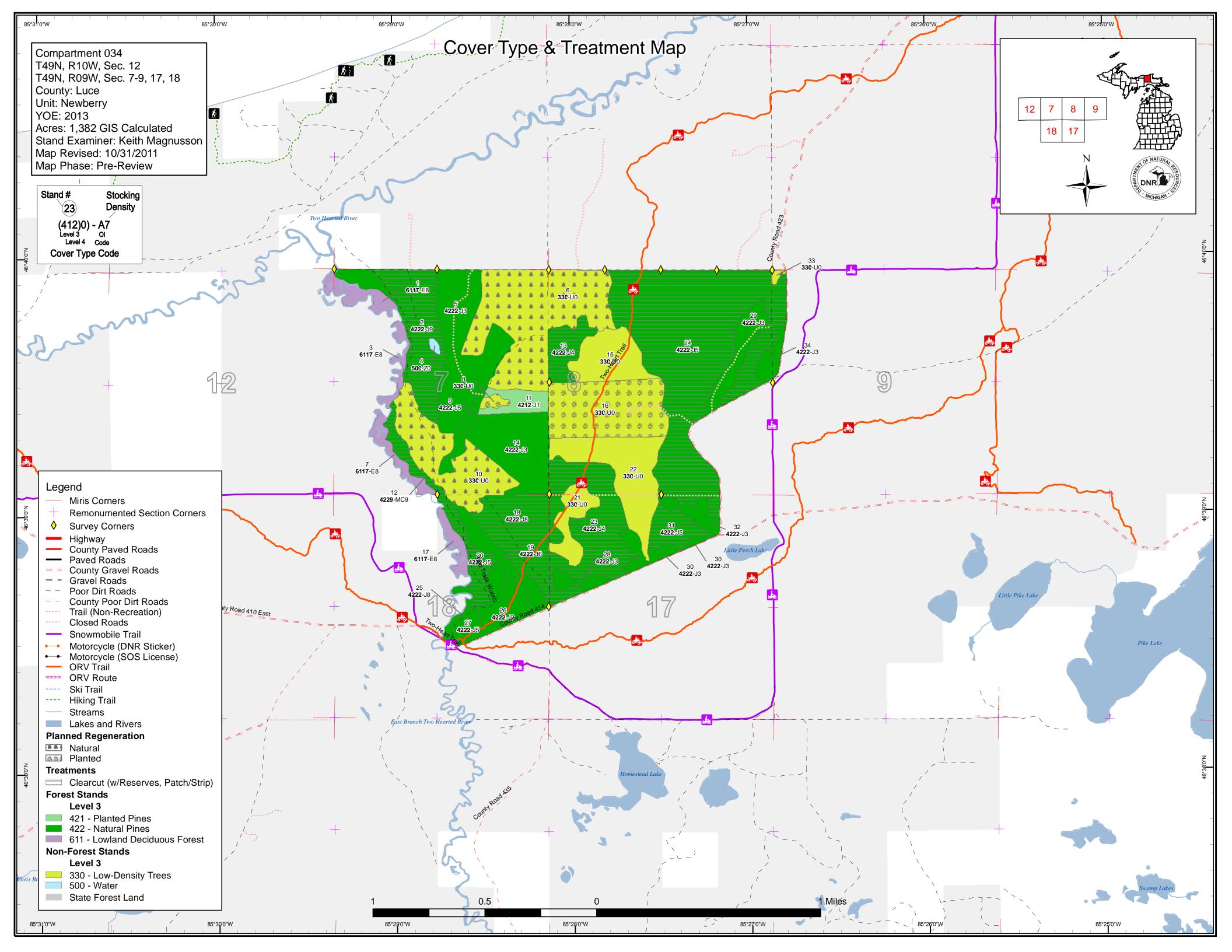
Fire Protection: The compartment is part of the Two Hearted Zone Dispatch Area. Large fire growth potential is high because of the continuous stands of Jack Pine. Fires should be easily accessed by heavy equipment.

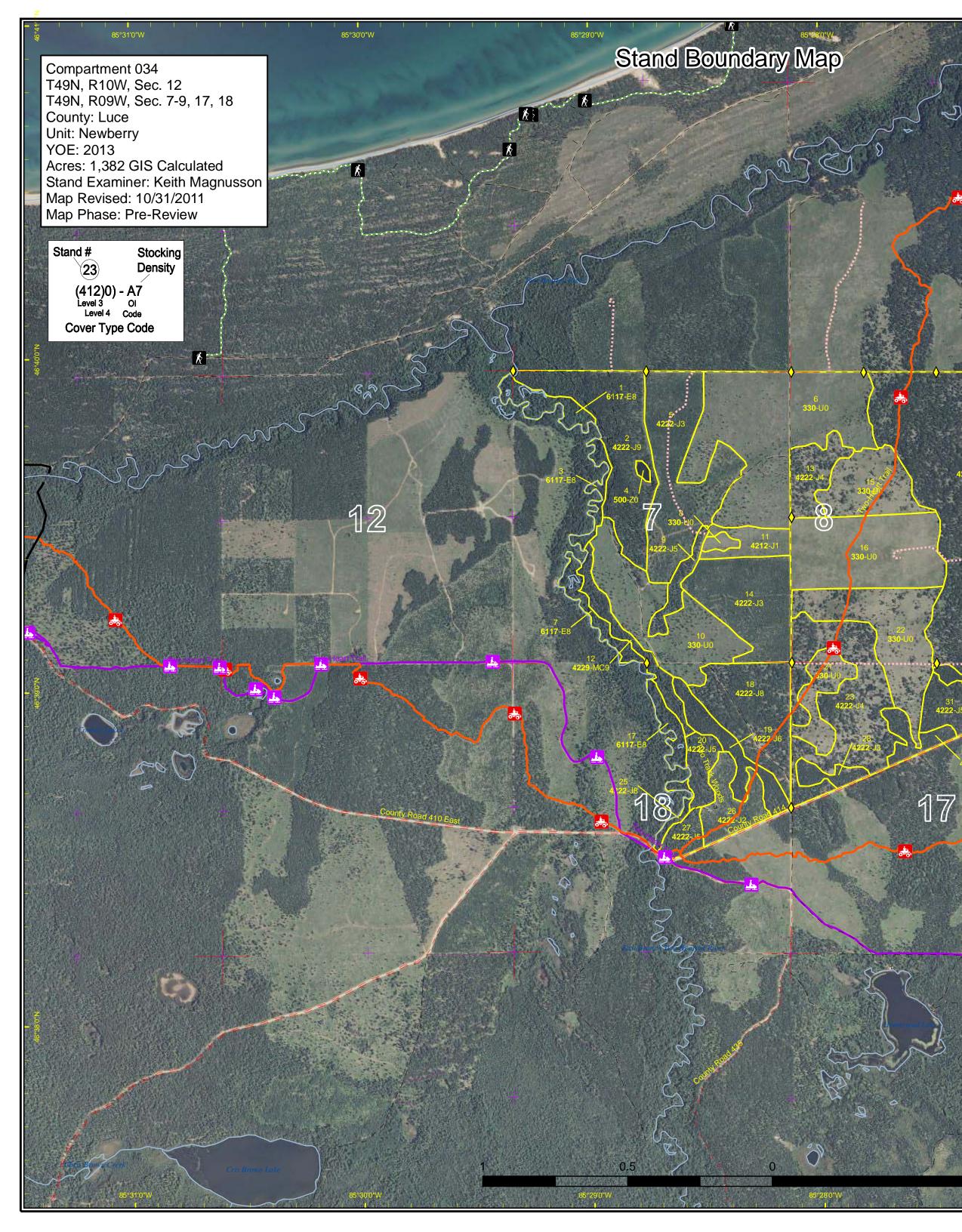
Additional Compartment Information:

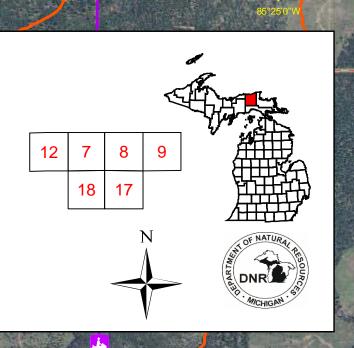
- > The following reports from the Inventory are attached:
 - Total Acres by Cover Type and Age Class
 - Proposed Treatment Summary
 - Proposed Treatments No Limiting Factors
 - Proposed Treatments With Limiting Factors
 - Stand Details (Forested and Nonforested)
 - Dedicated and Proposed Special Conservation Areas

- > The following information is displayed, where pertinent, on the attached compartment maps:
 - Base feature information, stand boundaries, cover types, and numbers
 - Proposed treatments
 - Details on the road access system

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Legend

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- Miris Corners
- Survey Corners
- Remonumented Section Corners Highway County Paved Roads Paved Roads
- _____
- = =
- County Gravel Roads Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads Trail (Non-Recreation) Closed Roads
- Snowmobile Trail
- Motorcycle (DNR Sticker) •---•
- Motorcycle (SOS License)
 ORV Trail
 ORV Route

- Ski Trail ____
- ---- Hiking Trail Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

Level 3

- 421 Planted Pines 422 Natural Pines 611 Lowland Deciduous Forest

Non-Forest Stands

- Level 3
- 330 Low-Density Trees 500 Water

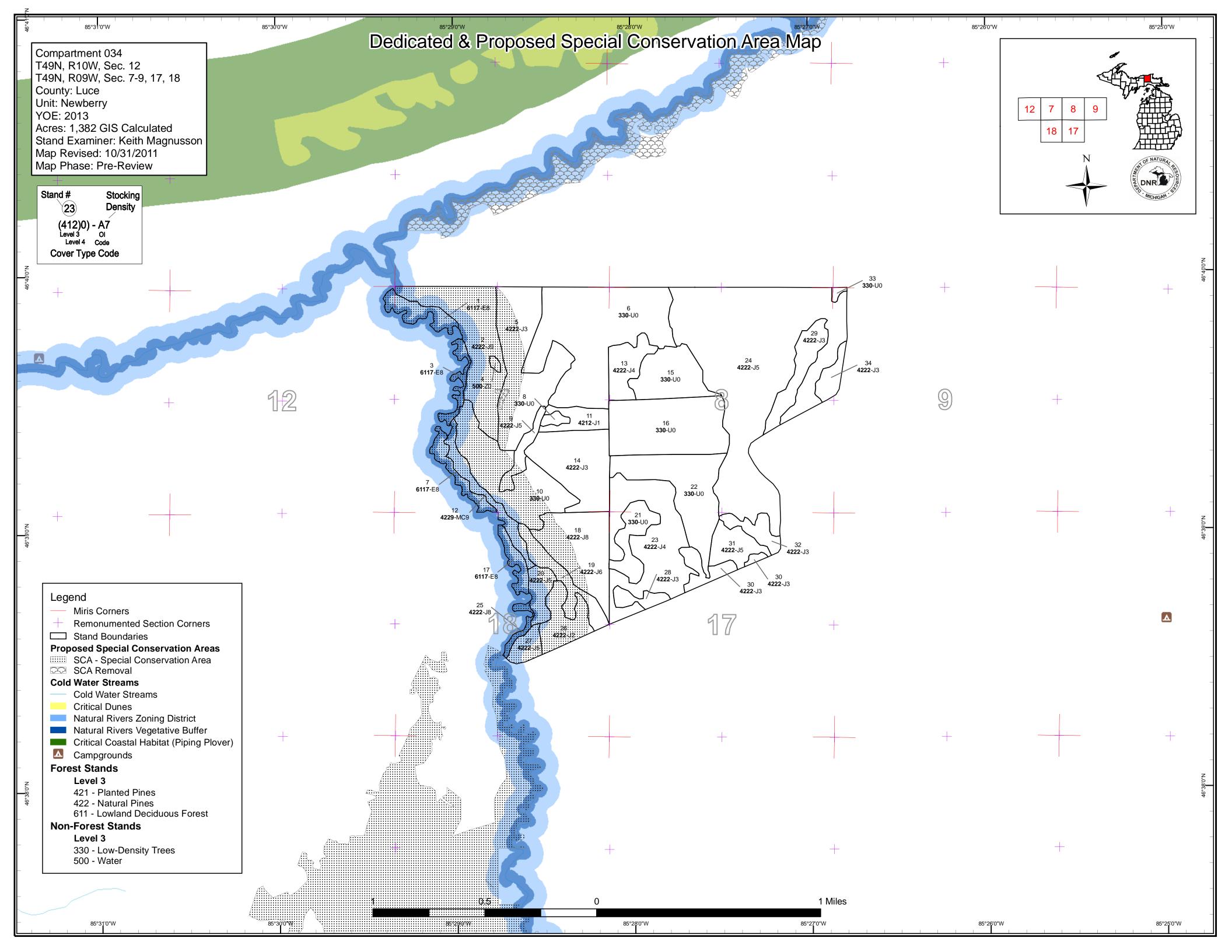


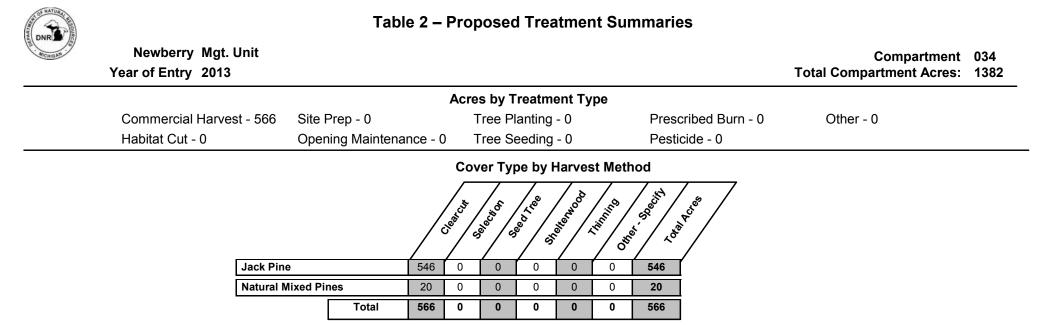
Table 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit Keith Magnusson : Examiner

Compartment 034 Year of Entry 2013



Age Class																	
	Hor	Desige of the second	°z /	10 ^{,70}	12 ⁻²²	61. 63	10 ⁻¹⁰	in the second se	00.00	10,10,00	40 ¹	6	601.001	10°170	50× 350	AND A	1000
Jack Pine	0	0	193	61	24	24	115	374	0	83	0	0	0	0	0	875	ĺ
Low-Density Trees	437	0	0	0	0	0	0	0	0	0	0	0	0	0	0	437	
Lowland Deciduous	0	0	0	0	0	0	0	0	0	16	32	0	0	0	0	48	
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	20	
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Total	439	0	193	61	24	24	115	374	0	119	32	0	0	0	0	1382	1



Newberry Mgt. Unit

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 034 Year of Entry 2013

t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	42034002-Cut	68.2	42220 - Natural Jack Pine	High Density Log	83	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal

Prescription Red and white pine scattered throughout stand. Leave a component of RP/WP. Some oak, aspen and red maple present in stand as a minor component. Leave all oak as well as a component of aspen - 1 tree per 5 acres if they exist. The area of stand west of the N/S running road has more of a red pine/white pine component with more balsam fir/red maple understory. This area is also rolling topography with a few gullys /drainages leading towards river.

Other Comments:

Steps:

s

- Next Scarify stand after havest to encourage natural regeneration. Acceptable regeneration includes jack pine, red pine, white pine and oak.
- 12
 42034012-Cut
 19.8
 42290 Natural Mixed Pine
 High Density Log
 83
 Harvest
 Clearcut with Reserves
 42290 - Natural Mixed Pine
 Cmpt. Review Proposal

 Prescription
 Stand is silviculturally ready to treat.
 Remove all jack pine, spruce and balsam.
 Some red and white pine will likely have to be marked as well for
- Specs: Sivicultural as well as operability reasons. Some of stand falls on topoghrapy that rolling with abrupt hillsides along old river corridors and will have to be considered when stand is treated. Stand falls in the Two Hearted Natural River Zone, follow plan with treatment prescribed. Stand currently serves as a nice buffer to the river.

Other Comments:

<u>Next</u> Scarification may be difficult in some areas due to topography. Will need to evaluate after treatment occurs. Acceptable regeneration would be <u>steps:</u> jack pine, red pine, white pine, balsam fir, spruce or oak.

13	42034013-Cut 23.6		Low Density Pole	61	Harvest	Clearcut with	42220 - Natural Jack	Cmpt. Review
		Jack Pine				Reserves	Pine	Proposal

<u>Prescription</u> Final harvest of jack pine. Some budworm mortality evident from last outbreak. Leave any other species present as retention. <u>Specs</u>:

<u>Other</u>

Comments:

Next Follow up with scarification and/or planting to increase stocking levels. Acceptable regeneration would be jack pine, red pine, white pine or oak. Steps:

18 4203	34018-Cut	61.0	42220 - Natural Jack Pine	Medium Density Log	67	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
Prescriptior Specs:	on_ Stand is	silvicultu	rally ready to treat.	Final havest jack pine	e. Leave	other species as	residual.		
<u>Other</u> Comments	<u>s:</u>								
<u>Next</u> Steps:	Scarify s	tand afte	r harvest. Plant star	nd to jack pine is sca	rification	ails. Acceptable	regeneration would	be jack pine, red pine, w	hite pine or oak.
20 4203	34020-Cut	14.5	42220 - Natural Jack Pine	Medium Density Pole	56	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
				Pole	56	Harvest			
Prescription	on_ Cut jack Stand fal	pine, lea	Jack Pine ve all other species a	Pole			Reserves		

S t		Newberry Mgt. Unit Table 3 Treatments Prescribed with No Limiting Factor						Compartment: 034 Year of Entry 2013	DRR DRR DR
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23	42034023-Cut	89.4	42220 - Natural Jack Pine	Low Density Pole	56	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
Preso Spec		rvest jack	pine. Some budwo	rm mortality evident	from last	outbreak. Leav	ve any other species p	resent as retention.	
<u>Other</u> Comr	<u>r</u> ments:								
<u>Next</u> Steps		p with sc	arification and/or pla	nting to increase sto	cking lev	els. Acceptable	regeneration would be	e jack pine, red pine, whi	te pine or oak.
24	42034024-Cut	268.6	42220 - Natural Jack Pine	Medium Density Pole	61	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
<u>Preso</u> Spec	•	rvest jack	t pine based on age/s	silvicutural reasons t	to start st	and over again.	Leave any other spec	cies as retention.	
<u>Other</u> Comr	<u>r</u> ments:								
<u>Next</u> Steps		after harvene or oak.		regeneration. Plant	to jack p	ine if scarificatio	on fails. Acceptable re	generation would be jack	pine, red pine,
31	42034031-Cut	20.9	42220 - Natural Jack Pine	Medium Density Pole	61	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
Preso Spec		rvest jack	pine based on age/	silvicutural reasons	to start s	tand over again	. Leave any other spe	cies as retention.	
<u>Other</u> Comr	<u>nents:</u>								
<u>Next</u> Steps		stand afte	er harvest. Acceptab	le regeneration wou	ıld be jac	k pine, red pine,	white pine and oak.	f scarification fails, plant	to jack pine.
A	Total Treatmer creage Propose		5.9						

S t a		Newb	erry Mgt. Unit	Table 4		ents Prescrib ng Factor	ed with	Compartment: 034 Year of Entry 2013	DI NATURAL
n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Presc Specs	ription <u>s:</u>								
<u>Other</u> <u>Comn</u>									
<u>Next</u> <u>Steps</u>	<u>.</u>								
	ng Factor and No ment Reason	<u>)</u>							
Ac	Total Treatmen reage Propose		0						

Out of YOE -- Treatments Prescribed with No Limiting Factor



Treatment	Acres	Stage1	Size	Stand	Treatment	Treatment	Cover Type	Approval
Name		CoverType	Density	Age	Type	Method	Objective	Status
42045001-Cut	3.9	42210 - Natural Red Pine	High Density Log	89	Harvest	Seed Tree	42210 - Natural Red Pine	Cmpt. Review Proposal

Prescription Harvest site to imitate a catastrophic crown fire by "clear-cutting all but a patchy mosaic of pine trees and clumps of trees to serve as seed trees" Specs: (MNFI). Focus on the 8-18 inch DBH class. Residual BA 10-20 to allow for successful pine regeneration.

Other Comments: This stand is identified by MNFI as a Dry Northern Forest. Move some of the Hemlock and Yellow Birch logs into stand 34 for Hemlock regeneration nurse logs.

 Next
 Burn the harvested area in the spring to reduce slash, hardwood competition, and to expose the mineral soil. This should be done within 2-3

 Steps:
 years after the completion of any harvesting activities. If the site is not burned within the time frame, scarify site to promote pine regeneration. If scarification fails, plant red pine. Acceptable regeneration mix is RP and a small component of WP.

Total Treatment

Acreage Proposed: 3.9

S t	Newberr	y Mgt. Unit		5 – Fo	prested Sta	nds Compartment: 034 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	16.0	80		Stand flanks the East Branch Two Hearted River. Stand follows river corrider and is a mix of uplands and lowlands. Called stand lowland because of the seasonal flooding that can occur in the spring months.
2	42220 - Natural Jack Pine	High Density Log	77.9	83	81-110	
3	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	8.9	90		Stand flanks the East Branch Two Hearted River. Stand follows river corrider and is a mix of uplands and lowlands. Called stand lowland because of the seasonal flooding that can occur in the spring months.
5	42220 - Natural Jack Pine	High Density Sapling	87.7	18		Stand was cut in 1993; TSale#008-93. It came in thick and is now sapling sized, 1-2"DBH 5-15' tall. Some pole/saw sized residual of oak, red pine, and red maple in the overstory throughout stand.
7	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	13.0	90		Stand flanks the East Branch Two Hearted River. Stand follows river corrider and is a mix of uplands and lowlands. Called stand lowland because of the seasonal flooding that can occur in the spring months.
9	42220 - Natural Jack Pine	Medium Density Pole	11.5	51	51-80	
11	42120 - Planted Jack Pine	Low Density Sapling	16.0	11		Stand was cut in mid 90's TSale#009-93. It did not regenerate well and was planted in 2002; FTP42-352. The JP is now ~5' tall and 1/2" DBH. Still open areas in stand where the trees did not survive.
12	42290 - Natural Mixed Pine	High Density Log	19.8	83	111-140	
13	42220 - Natural Jack Pine	Low Density Pole	23.6	61		Stand is very open in many places. Variable sizes, density, age in jack pine across stand. Patchy clumps of jack pine growing amongst open areas.
14	42220 - Natural Jack Pine	High Density Sapling	62.7	16		Stand was cut in mid 90's TSale#009-93. Scattered residual red pine, oak and red maple in the overstory.
17	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	10.4	90	51-80	Stand flanks the East Branch Two Hearted River. Stand follows river corrider and is a mix of uplands and lowlands. Called stand lowland because of the seasonal flooding that can occur in the spring months.
18	42220 - Natural Jack Pine	Medium Density Log	61.0	67		
19	42220 - Natural Jack Pine	High Density Pole	24.2	48	_	

Newberry Mgt. Unit			5 – Fo	prested Sta	nds Compartment: 034 Year of Entry: 2013
Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42220 - Natural Jack Pine	Medium Density Pole	14.5	56		Stand is mostly jack pine that is approx. 55 years old although there are some scattered older jack pine in stand. The stand has a red/white pine component that is older as well. The jack pine in the stand is limby and musth has started from an open grown condition, the BA in stand is medium stocked but merchantable.
42220 - Natural Jack Pine	Low Density Pole	89.4	56		Stand is very open in many places. Variable sizes, density, age in jack pine across stand. Patchy clumps of jack pine growing amongst open areas. Many jack pine trees are limby and open grown.
42220 - Natural Jack Pine	Medium Density Pole	268.6	61		Stand is variable; thick and thin density with variable diameters and ages. Thick areas of taller JP where trees are of somewhat smaller diameter, some non-merchantable. Thinner areas contain larger diametered open grown wolfy trees. Some areas of old JP w/younger sapling sized regen present.
42220 - Natural Jack Pine	Medium Density Log	5.0	83		Stand falls on the edge/bank of the Two Hearted River and serves as a forested buffer along the river corridor. Jack pine in the stand is old and beyond rotation age. Heavy balsam fir understory in mostl places in stand.
42220 - Natural Jack Pine	Medium Density	26.7	17		Stand was cut in 1993 and scarified in 1994. TSale # 010-93. Jack pine is now 10-20' tall and 1-2"DBH.
42220 - Natural Jack Pine	Medium Density Pole	11.0	30		Stand is a mix of jack pine, white pine, red pine, spruce, balsam and p. birch. Jack pine is dominate. Some older red pine on the overstory. Most species are regererating to some degree or another. Some variability in ages.
42220 - Natural Jack Pine	High Density Sapling	9.1	27		Stand was cut in June of 1984 and then scarified. It is now fully stocked with 10-20' tall JP 2-5" DBH.
42220 - Natural Jack Pine	High Density Sapling	25.6	27		Stand was cut in June of 1984 and then scarified. It is now fully stocked with 10-20' tall JP 1-4" DBH.
42220 - Natural Jack Pine	High Density Sapling	15.2	27		Stand was cut in June of 1984 and then scarified. It is now fully stocked with 10-20' tall JP 1-4" DBH.
42220 - Natural Jack Pine	Medium Density Pole	20.9	61		Stand is variable; thick and thin density with variable diameters and ages. Thick areas of taller JP where trees are of somewhat smaller diameter, some non-merchantable. Thinner areas contain larger diametered open grown wolfy trees. Some areas of old JP w/younger sapling sized regen present.
42220 - Natural Jack Pine	High Density Sapling	13.3	34		Stand was cut in 1977. It is fully stocked with 20-30' tall JP 2-6" DBH. Sapling sized stand becoming pole sized.
42220 - Natural Jack Pine	High Density Sapling	11.0	27		Stand was cut in June of 1984 and then scarified. It is now fully stocked with 10-20' tall JP 1-4" DBH.
	Level 4 Cover Type 42220 - Natural Jack Pine 42220 - Natural Jack	Level 4 Cover TypeSize Density42220 - Natural Jack PineMedium Density Pole42220 - Natural Jack PineLow Density Pole42220 - Natural Jack PineMedium Density Pole42220 - Natural Jack PineMedium Density Pole42220 - Natural Jack PineMedium Density Log42220 - Natural Jack PineMedium Density Log42220 - Natural Jack PineMedium Density Log42220 - Natural Jack PineMedium Density Pole42220 - Natural Jack PineMedium Density Pole42220 - Natural Jack PineHigh Density Sapling42220 - Natural Jack PineMedium Density Pole42220 - Natural Jack PineMedium Density Pole42220 - Natural Jack PineMedium Density Pole	Level 4 Cover TypeSize DensityAcres42220 - Natural Jack PineMedium Density Pole14.542220 - Natural Jack PineLow Density Pole89.442220 - Natural Jack PineMedium Density Pole268.642220 - Natural Jack PineMedium Density Pole5.042220 - Natural Jack PineMedium Density Log5.042220 - Natural Jack PineMedium Density Pole26.742220 - Natural Jack PineMedium Density Pole11.042220 - Natural Jack PineMedium Density Pole9.142220 - Natural Jack PineMedium Density Pole15.242220 - Natural Jack PineHigh Density Sapling25.642220 - Natural Jack PineHigh Density Pole20.942220 - Natural Jack PineMedium Density Pole20.942220 - Natural Jack PineMedium Sapling20.942220 - Natural Jack PineMedium Density Pole20.942220 - Natural Jack PineMedium Sapling13.342220 - Natural Jack PineHigh Density Sapling13.342220 - Natural Jack PineHigh Density Sapling13.3	Level 4 Cover TypeSize DensityAcresStand Age42220 - Natural Jack PineMedium Density Pole14.55642220 - Natural Jack PineLow Density 	Level 4 Cover TypeSize DensityAcresStand AgeBA Range42220 - Natural Jack PineMedium Density Pole14.55642220 - Natural Jack PineLow Density Pole89.45642220 - Natural Jack PineMedium Density Pole268.66142220 - Natural Jack PineMedium Density Pole5.08342220 - Natural Jack PineMedium Density Pole5.08342220 - Natural Jack PineMedium Density Pole11.03042220 - Natural Jack PineMedium Density Pole11.03042220 - Natural Jack PineHigh Density Sapling25.62742220 - Natural Jack PineHigh Density Sapling25.62742220 - Natural Jack PineMedium Density Pole15.22742220 - Natural Jack PineMedium Density Pole20.96142220 - Natural Jack PineMedium Density Pole13.33442220 - Natural Jack PineHigh Density Sapling13.334

Newberry Mgt. Unit

Compartment: 034 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	50 - Water	1.6	No	Unspecified	Small depression in topography. Water level looks lower now than what was shown in the imagery. There is leatherleaf along the edges of stand.
6	3302 - Low Density Conifer Trees	141.1	Natural Regen	Jack Pine	Stand was treated in 2005. JP seedlings now regenerating and 1-2' tall. Stand looks to be fully stocked.
8	3302 - Low Density Conifer Trees	3.7	Planted	Jack Pine	
10	3302 - Low Density Conifer Trees	74.1	Natural Regen	Jack Pine	Stand was treated in 2005; Tsale#018-03. J. pine regeneration is now 1-2' tall. Red maple stump sprout saplings present. There are scattered red pine, white pine, and red maple in overstory that was left as residual from the cutting. Stand looks to be regenerating well to jack pine. Stand will be moving to a forested condition soon.
15	3302 - Low Density Conifer Trees	40.8	No	Jack Pine	Stand is a grassy opening that has open grown, limby jack pine scattered throughout. Grass ground cover with some blueberry brush as well as some sweet fern.
16	3302 - Low Density Conifer Trees	83.7	Planted	Jack Pine	Stand is regenerating naturally with jack pine 1-2' tall. Some scotch pine present seedlings present as well. Red maple stump sprout seedlings present. Stand was recently trenched for planting to increase stocking.
21	3302 - Low Density Conifer Trees	23.1	No	Unspecified	Stand is a grassy opening that has open grown, limby jack pine scattered throughout. Grass ground cover with some blueberry brush as well as some sweet fern.
22	3302 - Low Density Conifer Trees	69.1	No	Unspecified	Stand is a grassy opening that has open grown, limby jack pine scattered throughout. Grass ground cover with some blueberry brush as well as some sweet fern.
33	3302 - Low Density Conifer Trees	1.7	Natural Regen	Jack Pine	Stand was final harvested in 2007 Some jp and white pine regen present but not a lot as of yet. What's here is approx. 6"-1' tall. Red maple stump sprout regen present. May have to wait another year to see more pine regen.



7 – 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.

Stand	SCA Туре	SCA Name	Acres	Comments
multiple - see	Unique Site - SCA	42034_SCA	336.7	Area represents the Two Hearted River Natural River Zone. Follow the Natural River Plan when implementing treatments.



8 – 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.

Conservation Area	n Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish spec 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 ese conditions due to substantial
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from sp approved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 1 and Vegetative Buffers for each Natural River see the table loca folder.	s Zoning District is a 400 foot buffer for 00 feet. To view specific Zoning Districts