

Gwinn Forest Management Unit Compartment Review Presentation Compartment 008 Entry Year: 2014

Compartment Acreage: 1,143 County: Marquette

Revision Date: 8/20/12

Stand Examiner: Theresa Sysol

Legal Description: T44N R23W Section(s) 1-3

RMU (if applicable): Dead Horse Moraines Management Area

Management Goals: To maintain the health and sustainability of the forest, while providing for wildlife, fisheries, environmental and recreational needs.

Soil and Topography: Ranges from level swamps and wetland drainages to only slightly undulating upland terrain. Some steeper stream banks present on both Sucker and Werner Creeks. Most swamp drainages occur in a north-south pattern. Major soil types include: Shoepac-Ensley complex, Shoepac-Reade, Charlevoix-Ensley, and Cathro-Ensley muck.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Private land along the north, south, and east portions of compartment. Most is generally held for recreational use of deer hunting, although some industry lands adjoin where timber production is the primary objective.

Unique, Natural Features: No known MNFI concerns. Potential for Gomphus quadricolor (rapids clubtail) along Werner Creek which passes through several northern hardwood stands. Potential for calypso bulbosa, round leaved orchid, limestone oak fern and Cypripedium arietinum in cedar swamp. Potential for rare plants of rich mesic forests: Carex assiniboinensis, showy orchis, Ginseng, Goblin Fern. Potential for red-shouldered hawk. Potential for wood turtle in Werner Creek.

Archeological, Historical, and Cultural Features: None identified with HAL.

Special Management Designations or Considerations: Riparian corridor stands and natural hemlock and white pine cover types providing diversity.

Watershed and Fisheries Considerations: Sucker Creek, Werner Creek and the north branch of Deer Creek.

Wildlife Habitat Considerations: Featured species includes black bear, white-tailed deer, pileated woodpecker and ruffed grouse

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. These formations are quarried for stone/dolomite in other areas of the State. The nearest gravel pit is located one mile to the northeast of the compartment and potential appears to be good. Abandoned iron mines are located twelve miles to the west. This compartment has not been leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: Access to the south portion via McFarland and Co Rd 444; seasonal access from the west off Co Rd 533. Some of this access is blocked by private lands. Access to the NE is from Johnson Road in Alger County, which is also restricted by private lands. Any interior access is seasonally dependent.

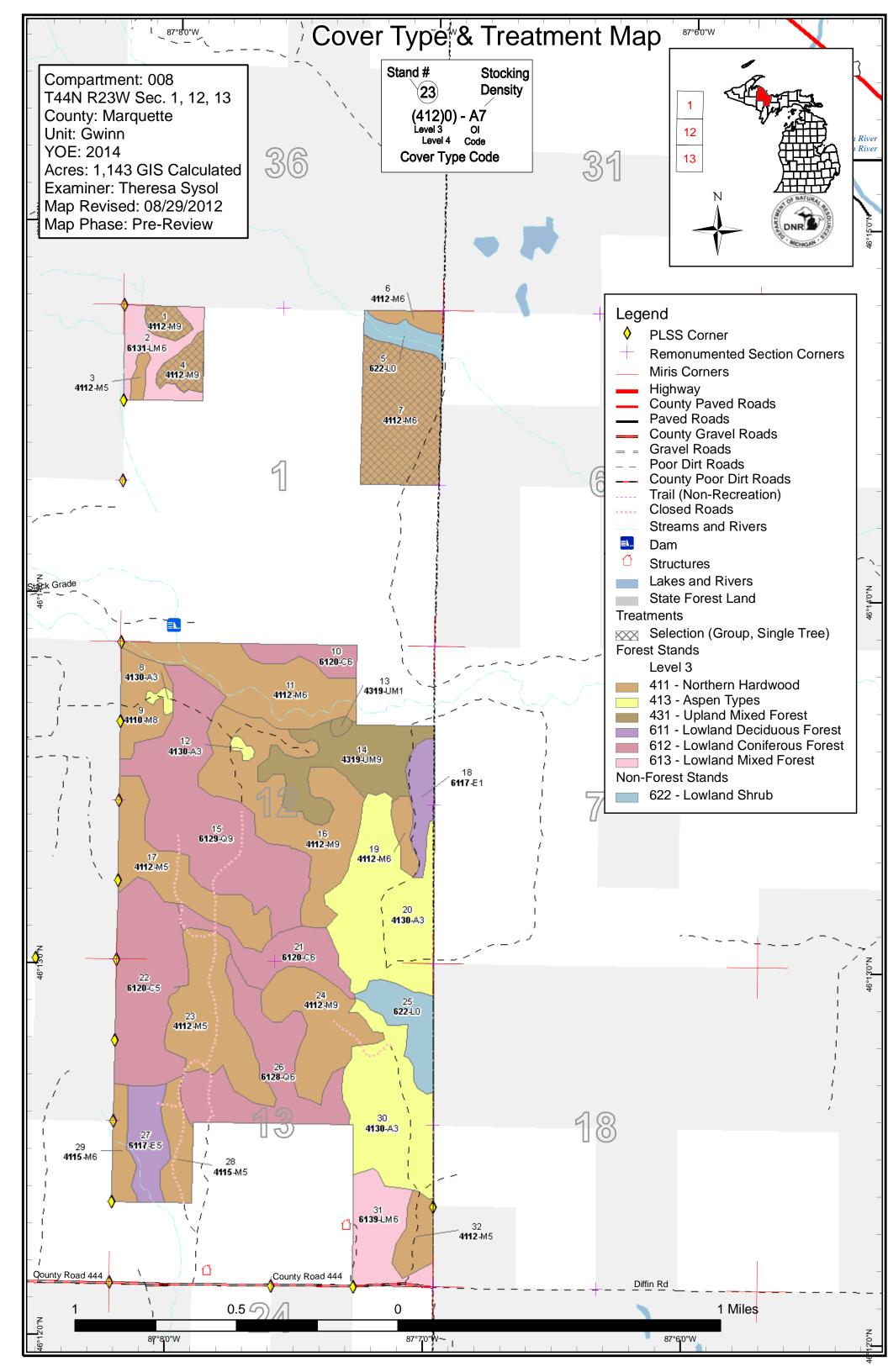
Survey Needs: the north half of Section 1

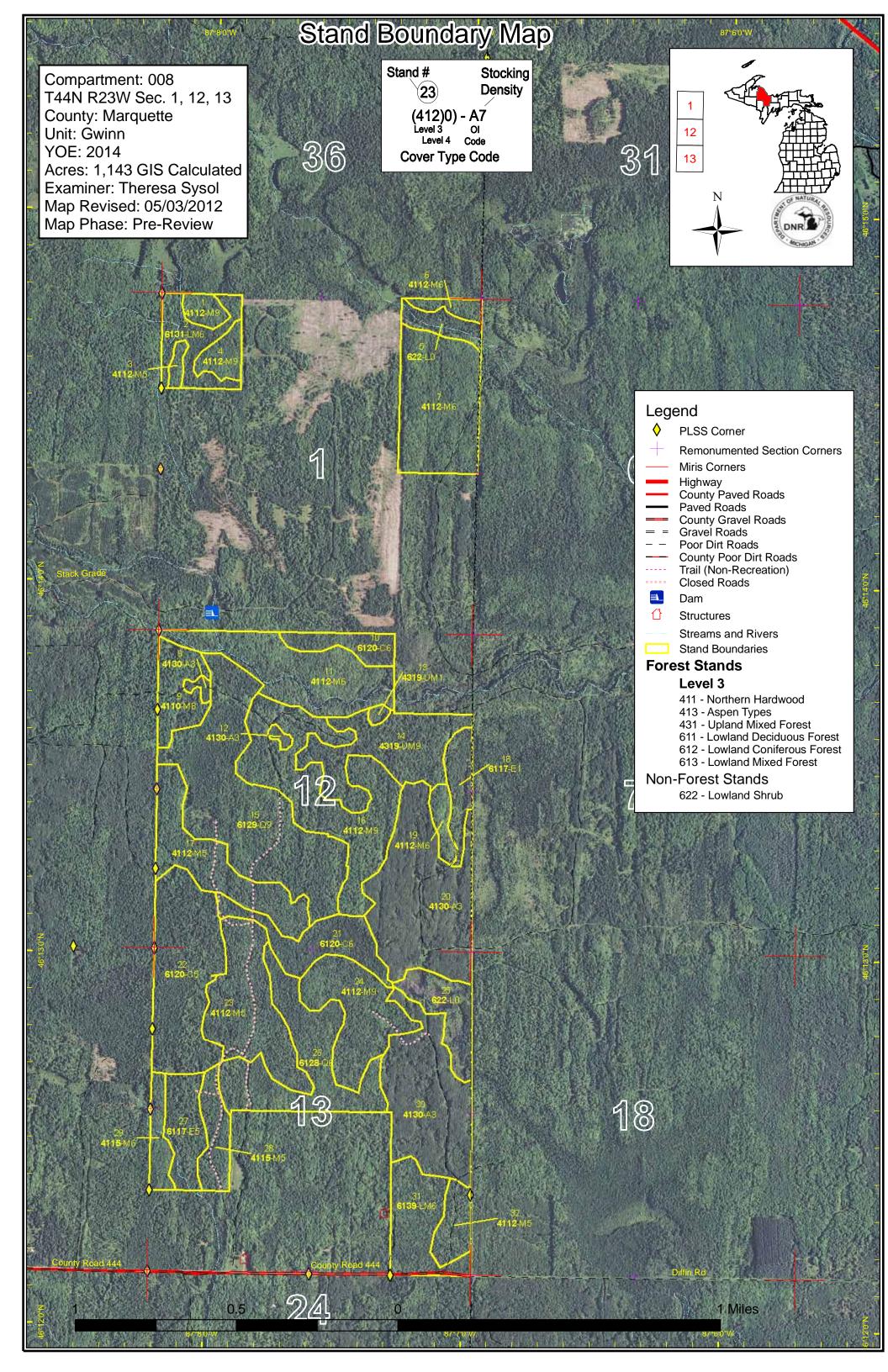
Recreational Facilities and Opportunities: No formal trails or other developed recreational facilities, although hunting, fishing and berry picking opportunities exist.

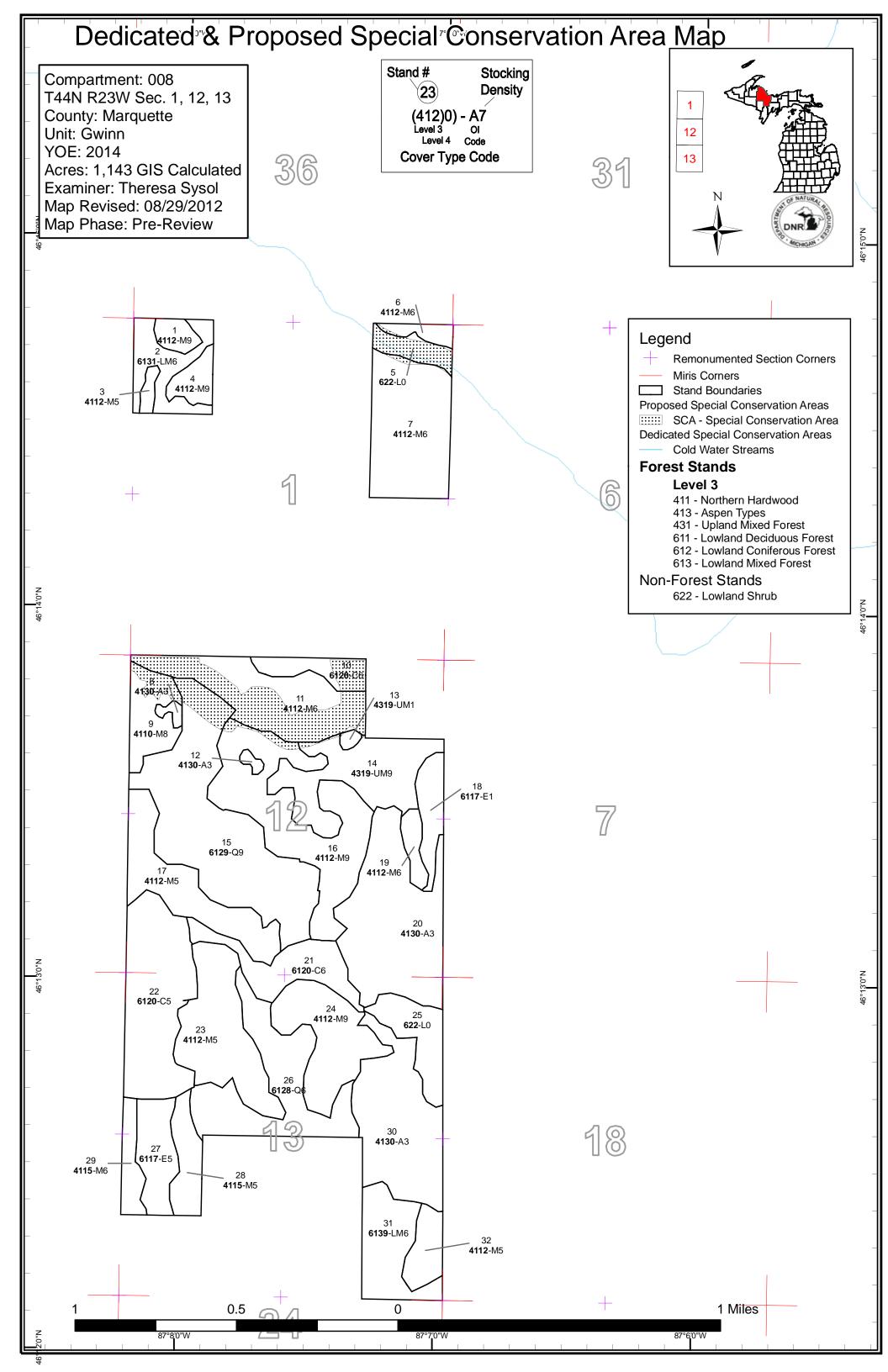
Fire Protection: Low risk area

Additional Compartment Information:

- ➤ The following 5 reports from the Operations Inventory System (OIPC) are attached:
 - **♦** Cover Type by Age Class
 - **♦** Cover Type by Management Objective
 - **♦** Compartment Volume Summary
 - **♦** Proposed Treatments No Limiting Factors
 - **♦** Proposed Treatments With Limiting Factors
- **➤** The following information is displayed, where pertinent, on the attached compartment maps:
 - **♦** Base feature information, stand numbers, cover types
 - **♦** Proposed treatments
 - ♦ Proposed road access system
 - ♦ Suggested potential old growth







Compartment 008 Year of Entry 2014

Theresa Sysol : Examiner

Gwinn Mgt. Unit



Age Class

	Age Class															
		6.9	02.00	in a		D. P.	18 / S	89.79	10.1°	\$ \ &	8.7	00,00	70,70	So* Ju	1 8 / A	
Aspen	0	4	162	0	0	0	0	0	0	0	0	0	0	0	166	
Cedar	0	0	0	0	0	0	0	0	0	0	47	0	0	74	122	
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	120	0	64	184	I
Lowland Deciduous	0	0	16	0	0	0	0	0	0	0	0	0	0	24	41	I
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	60	60	I
Lowland Shrub	36	0	0	0	0	0	0	0	0	0	0	0	0	0	36	I
Northern Hardwood	0	0	0	0	0	0	0	0	23	75	0	0	0	381	479	ſ.
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	56	56	
Total	36	4	178	0	0	0	0	0	23	75	47	120	0	660	1143	



Table 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit

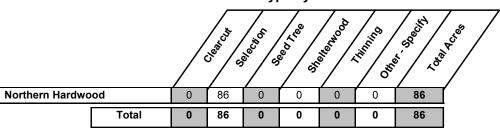
Compartment 008 Year of Entry 2014 **Total Compartment Acres: 1143**

Acres by Treatment Type

Commercial Harvest - 86 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Tree Seeding - 0 Pesticide - 0 Opening Maintenance - 0

Cover Type by Harvest Method



Gwinn Mgt. Unit

Table 3 -- Treatments Prescribed with No Limiting Factor

BA

Range

Compartment: 008
Year of Entry 2014

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Acres

CoverType

Stand Age

Size

Density

Treatment Type Treatment Method

Cover Type Objective Approval Status

#Error

Prescription

Specs:

s

n

d

Other Comments:

Next Steps:

Proposed

Start Date: #Error

Total Treatment Acreage Proposed:

Treatment

Name

0

Gwinn Mgt. Unit Table 4 -- Treatments Prescribed with Compartment: 008 a Limiting Factor s Year of Entry 2014 t а **Treatment** Acres CoverType BA **Treatment Treatment** Cover Type n Size Stand **Approval** Status Method Name Density Range Objective d Age Type 32008001-Cut 7.5 4112 - Maple, High 95 111-Harvest Single Tree 4112 - Maple, Cmpt. Review Selection Beech, Cherry Density Log 140 Beech, Cherry Proposal Association Association Prescription Mark hardwoods to 80-90 BA, using all applicable guidelines, and maintain species diversity. Create regeneration gaps, where appropriate, and release any current regeneration. Retain some of the oversized, wildlife-quality maple and birch as legacy trees. Retain snag trees. Retain any Specs: hemlock, white pine and white spruce. Other --Theresa Sysol: 08/20/2012 comments: per WLD at pre-review - promote blk cherry for mast, where possible, for bear Comment: Possibly negotiate with sale under contract to the north (#001-10) due to access, although drainage crossing/BMP's may still be an issue. Next Monitor regeneration, per work instructions. Acceptable regeneration includes mix of hardwood species. Steps: Proposed 10/01/2013 Start Date: 2H: Blocked by physical obstacle Limiting Factor and No **Treatment Reason** (e.g. upland stand in a lowland area) 32008004-Cut 10.8 81-110 Harvest Cmpt. Review 4112 - Maple, High 80 Single Tree 4112 - Maple, Selection Beech, Cherry Proposal Beech, Cherry Density Log Association Association Prescription Mark hardwoods to 80-90 BA, using all applicable guidelines, and maintain species diversity. Create regeneration gaps, where appropriate, and release any current regeneration. Retain some of the oversized, wildlife-quality maple and birch as legacy trees. Retain snag trees. Retain any Specs: hemlock, white pine and white spruce. <u>Other</u> --Theresa Sysol: 08/20/2012 comments: per WLD at pre-review - promote blk cherry mast, where possible, for bear Comment: Access to stand is restricted by private. Monitor regeneration, per work instructions. Acceptable regeneration includes mix of hardwood species. <u>Next</u> Steps: Proposed 10/01/2013 Start Date: Limiting Factor and No 2B: Unknown if access through <u>Treatment Reason</u> adjacent landowner(s) is possible 7 32008007-Cut 67.3 4112 - Maple, 90 111-Harvest Single Tree 4112 - Maple, Cmpt. Review High Selection Beech, Cherry Density 140 Beech, Cherry Proposal Association Pole Association Prescription Mark hardwoods to 80-90 BA, using all applicable guidelines, and maintain species diversity. Create regeneration gaps, where appropriate, and release any current regeneration. Retain some of the oversized, wildlife-quality maple and birch as legacy trees. Retain snag trees. Retain any Specs: hemlock, white pine and white spruce. --Theresa Sysol: 08/20/2012 comments: per WLD at pre-review - promote blk cherry for mast, where possible, for bear Comment: Will require private access. Prescribed last entry, but never treated due to access. Next Monitor regeneration, per work instructions. Acceptable regeneration includes mix of hardwood species.

Other

Steps:

Start Date:

Proposed

Limiting Factor and No

2B: Unknown if access through <u>Treatment Reason</u>

10/01/2013

adjacent landowner(s) is possible

prescribed last entry cycle also, but never treated due to access

Total Treatment

85.6 Acreage Proposed:

Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2014

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

Prescription Specs:

Other Comments:

Next Steps:

Proposed

Start Date: #Error

Total Treatment Acreage Proposed:

0

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a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	High Density Log	7.5	95	111-140	Isolated hardwood stand fringed with conifers and intermittent drainage. Very restrictive access.
2	6131 - Hemlock, White Pine, Maple, Birch	High Density Pole	24.4	Uneven Age		
3	4112 - Maple, Beech, Cherry Association	Medium Density Pole	3.7	Uneven Age	81-110	Mainly a pole/sapling stand with large diameter YB, RM and H within.
4	4112 - Maple, Beech, Cherry Association	High Density Log	10.8	80	81-110	Rolling terrain - lowland conifer edges.
6	4112 - Maple, Beech, Cherry Association	High Density Pole	6.7	Uneven Age		Small parcel of land against Sucker Creek
7	4112 - Maple, Beech, Cherry Association	High Density Pole	67.3	90	111-140	Heavy component of black cherry, which is in decline. Contains black knot. Low quality sapling maple regeneration, and no seedling ground cover. Fingers of lower, wetter areas with hemlock, birch run through stand. Ground cover noted includes club moss, trout lily.
8	4130 - Aspen	High Density Sapling	2.5	13		T. sale #001-94 "Werner Creek Hardwood Block" (Unit 8) - cut 1998.
9	4110 - Sugar Maple Association	Medium Density Log	23.9	Uneven Age	51-80	T. sale #001-94 "Werner Creek Hardwood Block" (Unit 7) - selection cut 1998 and t. sale #035-04 "Creek Corner Hardwood" - select cut November, 2005.
10	6120 - Lowland Cedar	High Density Pole	15.1	100		
11	4112 - Maple, Beech, Cherry Association	High Density Pole	63.1	Uneven Age	81-110	Steeper, rolling terrain, especially near Werners Creek.
12	4130 - Aspen	High Density Sapling	1.9	13		T. sale #001-94 "Werner Creek Hardwood Block" (unit 8) - cut 1998.
13	4319 - Mixed Upland Forest	Low Density Sapling	1.9	Uneven Age		"Werner Creek Hardwood Block" #001-94 (part of Unit 8) - clearcut Sept, 1998. Leave tree marked WS, maple and birch. Also any hemlock and cedar were left.
14	4319 - Mixed Upland Forest	High Density Log	54.4	Uneven Age	81-110	"Werner Creek Hardwood Block" #001-94 (Unit 1,4). Low quality red maple - poor sapling/poles. Very subtle changes in topography.
15	6129 - Mixed Coniferous Lowland Forest	High Density Log	120.1	110	111-140	
16	4112 - Maple, Beech, Cherry Association	High Density Log	86.5	Uneven Age	81-110	"Werner Creek Hardwood Block" #001-94 (units 3,4,5,6) - cut May,1998 - Jan,1999.

s t				5 – For	rested Sta	Compartment: 008 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	4112 - Maple, Beech, Cherry Association	Medium Density Pole	48.5	Uneven Age	81-110	T. sale #001-94 "Werner Creek Hardwood Block" (Unit 7) - cut 1998 and t. sale #003-04 "North Branch Deer Creek" (Units 8- 10) - cut Feb, 2008. Trace amount of quaking aspen (overmature and dying) and ash noted.
18	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Sapling	16.2	25		Unit 1 of t. sale #036-84 - cut Feb, 1986. Contains both high and low grounds.
19	4112 - Maple, Beech, Cherry Association	High Density Pole	8.1	Uneven Age	81-110	Mainly a small pole stand, except for south end. Part of t. sale #001-94 "Werner Creek Hardwood Block" (unit 2) - cut 1998-99.
20	4130 - Aspen	High Density Sapling	90.0	25		"444 Block" t. sale #036-84 (unit 1-3) - cut Feb, 1987. Some open areas with S/F, hemlock, WP.
21	6120 - Lowland Cedar	High Density Pole	32.2	100	141-170	
22	6120 - Lowland Cedar	Medium Density Pole	74.2	Uneven Age		East portion of stand treated as "North Deer Creek Block" #002- 94 (Units 1, 3-5) - shelterwood cut 1997 (March - Oct)
23	4112 - Maple, Beech, Cherry Association	Medium Density Pole	58.7	Uneven Age	51-80	"North Branch Deer Creek" sale #003-04 (Unit 5-7) - cut Jan/Feb, 2008
24	4112 - Maple, Beech, Cherry Association	High Density Log	48.0	Uneven Age	81-110	"North Branch Deer Creek" sale #003-04 (units 1 - 3) - thinned Jan, 2006. Some rutting issues due to warm temperatures during harvest.
26	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	64.0	Uneven Age		Lower, wetter ground than adjacent stand.
27	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	24.4	Uneven Age		portion cut under "North Deer Creek Block" sale #002-94 (unit 2) - cut Feb, 2007. Low quality hardwood stems.
28	4115 - Y.Birch, Hemlock NH	Medium Density Pole	18.6	Uneven Age		"North Branch Deer Creek" sale #003-04 (unit 4) - cut Fall, 2006.
29	4115 - Y.Birch, Hemlock NH	High Density Pole	12.5	85		
30	4130 - Aspen	High Density Sapling	71.5	25		"444 Block" sale #036-84 (unit 3 - 5) - cut Jan-Feb, 1986.
31	6139 - Mixed Lowland Forest	High Density Pole	36.0	Uneven Age	111-140	Difficult ground to operate on, but could possibly remove older spruce, fir, aspen and most red maple.
32	4112 - Maple, Beech, Cherry Association	Medium Density Pole	15.0	Uneven Age	51-80	"444 County Line Hardwood" sale #004-04 - cut October, 2005.

6 - Nonforested Stands

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Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:			
5	6220 - Alder/willow	11.1	No	Unspecified	Low density trees with tagalder - contains Sucker Creek			
25	6220 - Alder/willow	24.5	No	Unspecified	Beaver flooding of roadbed and associated timber (cedar snags/dead). Still some timbered edges.			

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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 Type	SCA Name	Acres	Comments
multiple - see	Unique Site - SCA	32008_SCA	64.1	SCA - Riparian corridor - No treatments within corridor of Sucker and Werner creeks to protect stream quality and prevent sedimentation. Wildlife travel corridor also.

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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	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area				
SCA	Cold Water Stream	stocked trout populations and those of other coldwayear to year. Coldwater streams in Michigan typical	Such streams are established by Director's action and				