

Gwinn Forest Management Unit Compartment Review Presentation Compartment 014 Entry Year: 2014

Compartment Acreage: 723 County: Marquette

Revision Date: 8/20/12

Stand Examiner: Theresa Sysol

Legal Description: T44N R23W Section(s) 19, 30, 31

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 rolling or only slightly hilly upland terrain. Major soils include: Nahma muck, Cathro-Ensley muck, Sundell loam, Trenary silt loam, and Shoepac-Trenary

Ownership Patterns, Development, and Land Use in and Around the Compartment: Numerous private camps and homes in the area.

Unique, Natural Features: No known MNFI concerns – see database comments though. Potential for rare plants of rich mesic forests. 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. Little potential for listed animals.

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

Special Management Designations or Considerations:

Watershed and Fisheries Considerations: numerous small drainages and seeps

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 Black River Group subcrops below the glacial drift. This formation is quarried for stone/dolomite in other areas of the State. The nearest gravel pit is located in Section 20 and potential appears to be good. Abandoned iron mines are located nine miles to the northwest. This compartment has not been leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: East on Co Rd 444 from McFarland and North on Co Rd RA (Badder Road) and also off of

M-35

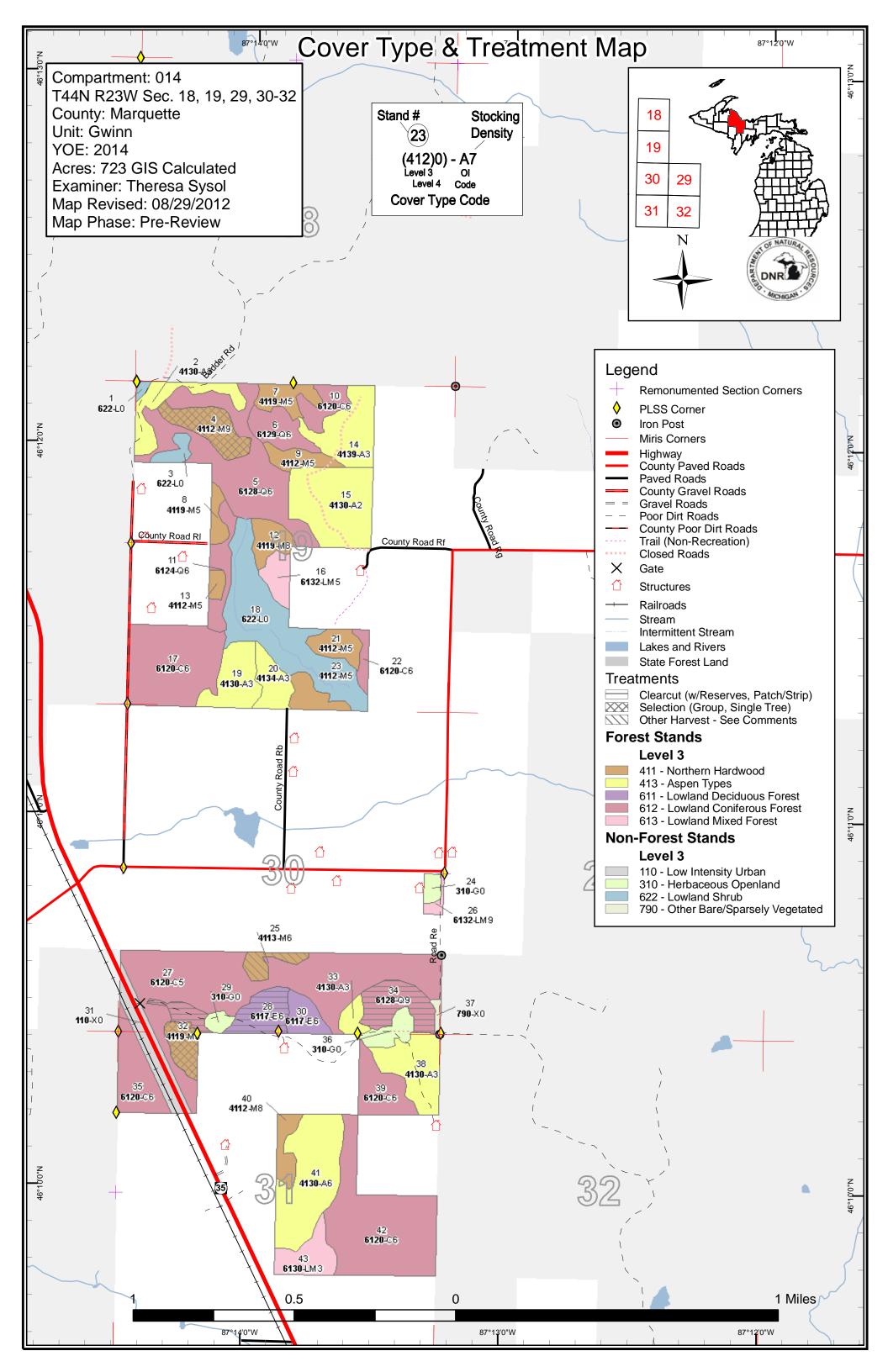
Survey Needs: Possibly some work in Section 30

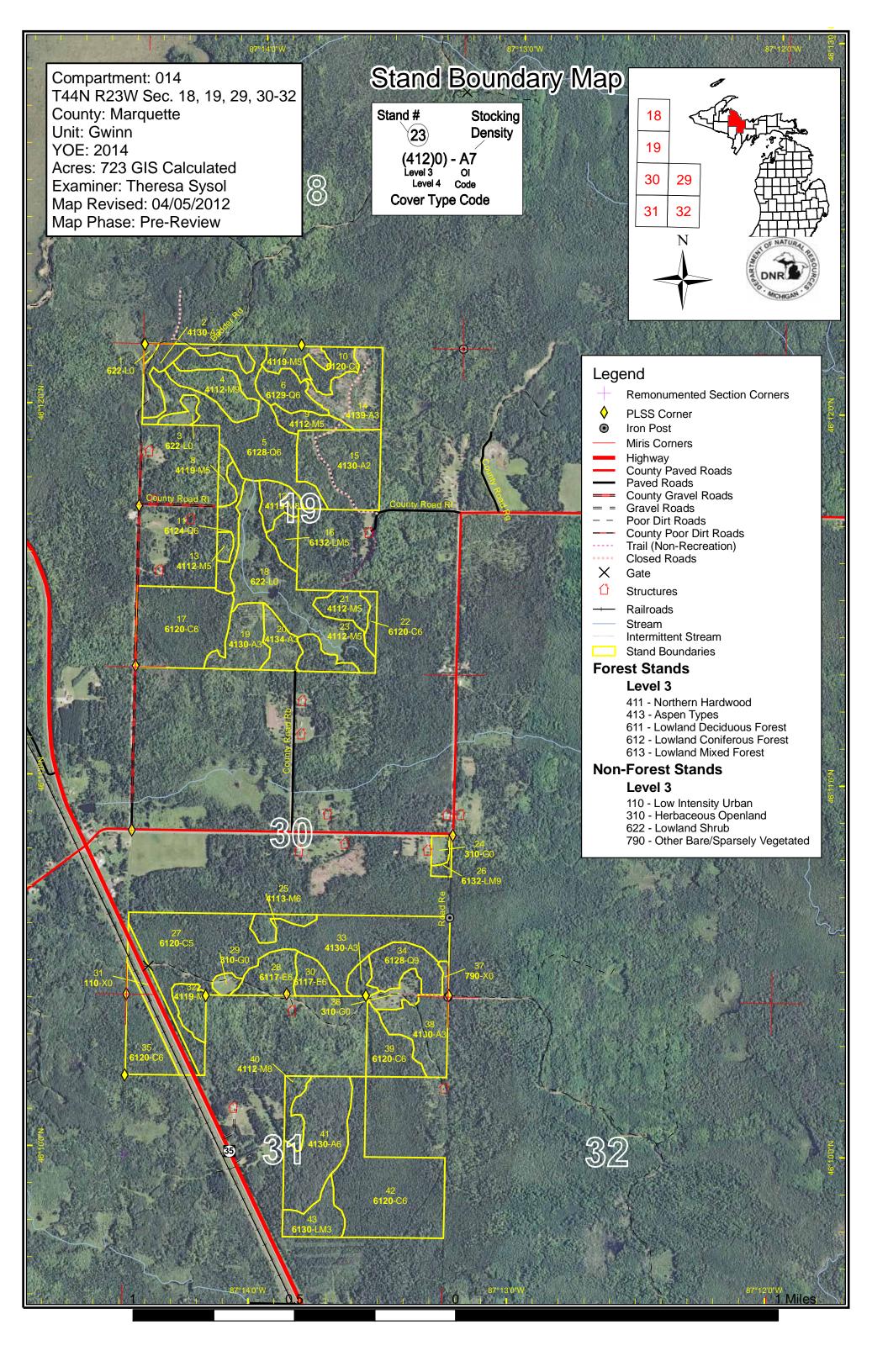
Recreational Facilities and Opportunities: No developed facilities, but opportunities exist for hunting, trapping and berry picking.

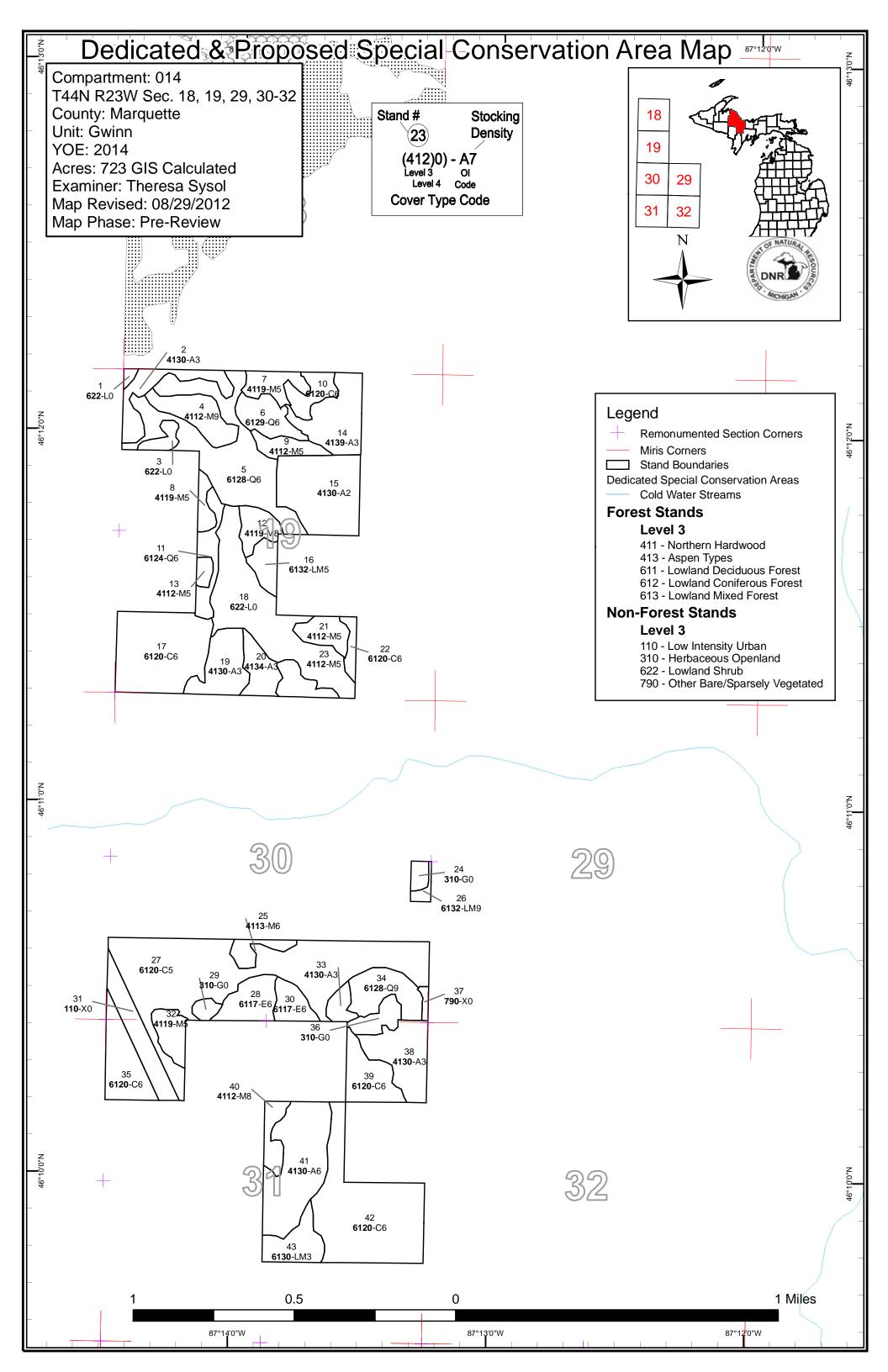
Fire Protection: Very low risk area.

Additional Compartment Information: Old McFarland landfill within stand 29.

- ➤ 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 014 Year of Entry 2014

Gwinn Mgt. Unit



Theresa Sysol : Examiner

						Age	Class									
		0.0	\$2.0	62.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	AD. L.S.	\$ / S	8 /	, N. /	\$ 6 P	83	80,00/	, 70, 70 8, 70	Jue Jue	AS /	,
Aspen	50	58	14	44	0	0	0	0	0	0	0	0	0	0	165	ĺ
Bare/Sparsely Vegetated	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	Ī
Cedar	0	0	0	0	0	0	0	0	0	131	119	0	0	0	250	Ī
Herbaceous Openland	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13	Ĭ
Lowland Conifers	0	0	0	0	0	0	0	0	0	38	0	0	0	53	91	Ī
Lowland Deciduous	0	0	0	8	0	0	0	0	0	0	0	0	0	13	21	Ĭ
Lowland Mixed Forest	0	0	0	13	0	0	0	7	0	2	0	0	0	0	22	Ī
Lowland Shrub	57	0	0	0	0	0	0	0	0	0	0	0	0	0	57	Ī
Northern Hardwood	0	0	0	0	0	0	0	31	23	0	0	0	0	31	85	1
Urban	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
Total	138	58	14	65	0	0	0	38	23	171	119	0	0	97	723]



Table 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit

Compartment 014 Year of Entry 2014 **Total Compartment Acres: 722.9**

Acres by Treatment Type

Commercial Harvest - 64 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

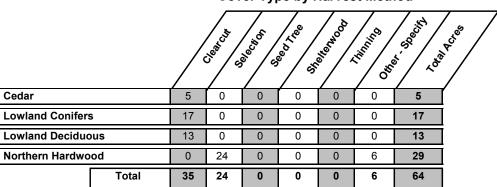


Table 3 -- Treatments Prescribed with No Limiting Factor

Compa Year

artment: 014	TOF NATURAL
of Entry 2014	DNR
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a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	32014004-Cut	15.0	4112 - Maple, Beech, Cherry Association	High Density Log	85 }	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Specs:

S

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, basswood and birch as legacy trees. Retain snag trees.

Retain any hemlock, white pine and white spruce.

Other_ Comments: per WLD at pre-review: promote blk cherry for mast, where possible, for bear

<u>Next</u>

Monitor regeneration for an acceptable mix of northern hardwoods.

Steps:

Proposed

10/01/2013 Start Date:

32014027-Cut 6120 - Lowland Clearcut 6120 - Lowland 27 5.1 Medium 95 111-140 Harvest Cmpt. Review Cedar Density Cedar Proposal Pole

Prescription Harvest all merchantable aspen, balsam fir, tamarack, and white spruce.

Monitor for successful regeneration, per work instructions.

Specs:

--Theresa Sysol: 08/20/2012 comments: per WLD at pre-review - leave windfirm white spruce Other_

Comments:

Concentrate on overmature, hazard trees within immediate road vicinity.

<u>Next</u>

Steps:

Proposed

Start Date: 10/01/2013

32014028-Cut 13.0 6117 - Lowland 85 Harvest Clearcut 6117 - Lowland Cmpt. Review 28 High Deciduous, Mixed Deciduous, Mixed Density Proposal Pole Coniferous

Coniferous

Prescription Dead BF, overmature aspen, snapped WS,C within - treat stand to improve quality/health and encourage new mixed regeneration. Include road

edge trees in harvest (stand 27), where feasible. Trace amounts of elm - leave. Leave all WP, C, H, sugar maple; cut A and larger PB, F, S and

leave tree mark RM.

<u>Other</u> Most likely winter cut only, although proximity to hwy could create some issues, due to deer (bedding sign evidence noted). No retention due to

Comments: stand size.

Monitor for successful regeneration of mixed species. <u>Next</u>

Steps:

Specs:

<u>Proposed</u>

Start Date: 10/01/2013

32014032-Cut 8.7 4119 - Mixed Medium 81-110 Harvest Single Tree 4119 - Mixed Cmpt. Review Northern Hardwoods Density Selection Northern Hardwoods Proposal

Pole

Prescription Mark hardwoods to 60-90 BA, using all applicable guidelines, maintaining a diversity of species. Retain some larger diameter, wildlife-quality

maple and birch, as well as all cedar, white pine and hemlock. Create regeneration gaps, where appropriate.

--Theresa Sysol: 08/20/2012 comments: per WLD at pre-review - leave windfirm white spruce Other_

Comments:

Specs:

Very little maple sapling/seedling regeneration noted. Larger RM is mainly wildlife quality; stand transitions into heavier conifer mix. Proximity to

hwy could create deer issues as stand may be winter harvest. Treat small portion of stand 27 for road access to stand.

Monitor for acceptable regeneration of hardwoods, per work instructions. <u>Next</u>

Steps:

Proposed

10/01/2013 Start Date:

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 014 Year of Entry 2014

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		-1110	-	

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34	32014034-Cut	16.5	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	90		Harvest	Clearcut	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal

Prescription Harvest all species, except white pine and cedar. Leave small cedar retention/exclusion patches where volumes are higher. Leave snags, Specs:

unless a hazard to the operator. Winter cut only.

--Theresa Sysol: 08/20/2012 comments: per WLD at pre-review - retain some blk cherry, paper birch, large aspen and windfirm white spruce Other_ Comments:

Access from the east would require road improvements (culvert, small temporary bridge), or private permission to the west. Porcupine girdling on

tamarack noted, blowdown spruce/fir; numerous dead/dying aspen, tamarack (eastern larch beetle damage).

<u>Next</u> Steps: Monitor regeneration, per work instructions. Acceptable species mix includes: aspen, birch, spruce, fir, tamarack and cedar.

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<u>Proposed</u>

10/01/2013 Start Date:

Total Treatment

58.3 Acreage Proposed:

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Data updated before 2:00 PM

s t		Gv	vinn Mgt. Unit	Table 4		eatment imiting	d with	Compartment: 014 Year of Entry 2014	DNR DURAL DIRECTION OF THE PROPERTY OF THE PRO	
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	32014025-Cut	5.7	4113 - R.Maple, Conifer	High Density Pole	78	111- 140	Harvest	Other - Specify in Comments	4113 - R.Maple, Conifer	Cmpt. Review Proposal
Preso Spec	which so	ystem woul egeneratio	ld provide the desired	results in th oriate, and re	e most e elease an	fficient ma	nner - re-evalua	ate at time of sale pre	ain species diversity. A	·
Othe Com	<u>r </u> Theres ment <u>:</u>	sa Sysol : 0	08/20/2012 comments	: per WLD a	t pre-rev	iew - retai	n some paper bi	irch and windfirm wh	ite spruce, if available	
Oom	Stand w	rill be difficu and is treat		ess through	private la	ands. Rer	move some of th	ne larger white spruce	e, which may be prone	to windthrow
Next Steps		for succes	sful regeneration of m	ixed norther	n hardwo	oods.				
Propo Start I		13								

Total Treatment

Limiting Factor and No Treatment Reason

Acreage Proposed: 5.7

2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

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

S t	Gwin	Gwinn Mgt. Unit			ested Sta	Ands Compartment: 014 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4130 - Aspen	High Density Sapling	13.8	25		T. sale #030-85 - cut 1986-87 (with comp't 5)
4	4112 - Maple, Beech, Cherry Association	High Density Log	15.0	Uneven Age	111-140	T. sale #007-94 "RA Hardwood" (unit 2) - cut May, June, 1994.
5	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	53.0	Uneven Age		Thick and thin concentrations of C/H; some blowdown (mainly cedar). Trace amounts of WP (supercanopy), PB, BC and aspen.
6	6129 - Mixed Coniferous Lowland Forest	High Density Pole	12.0	99		Ground cover of leatherleaf, grasses noted. Very little understory variability - most is >10' hts.
7	4119 - Mixed Northern Hardwoods	Medium Density Pole	9.0	Uneven Age	51-80	T. sale #005-04 "Old Griz #2" (Units 3,5) - cut Feb, 2008. Sale area was also chipped.
8	4119 - Mixed Northern Hardwoods	Medium Density Pole	4.6	81	51-80	T. sale #006-94 "Old Griz Block" (unit 1) - cut Sept., 1997.
9	4112 - Maple, Beech, Cherry Association	Medium Density Pole	7.4	Uneven Age	51-80	"Old Griz #2" sale #005-04 (unit 2) - select cut Jan/Feb, 2008.
10	6120 - Lowland Cedar	High Density Pole	8.7	90		Ground cover of labrador tea, tagalder
11	6124 - Lowland Spruce- Fir	High Density Pole	9.9	90		Trace amount of cherry, ash
12	4119 - Mixed Northern Hardwoods	Medium Density Log	8.6	78	81-110	"Old Griz #2" sale #005-04 (unit 1) - select cut Jan., Feb, 2008
13	4112 - Maple, Beech, Cherry Association	Medium Density Pole	2.7	81	51-80	Isolated patch of hardwood. (part of) "Old Griz Block" sale #006- 94 (unit 2) - cut Sept, 1997.
14	4139 - Aspen, Mixed Deciduous	High Density Sapling	22.6	4		"Old Griz #2" sale #005-04 (unit 4) - cut in 2008. Mainly RM sprouts/clumps - fairly well-stocked.
15	4130 - Aspen	Medium Density	36.7	13		"Corner Aspen Block" sale # 005-94 - cut July, 1997-Feb, 1998. Small patch of hardwoods w/in SE corner of stand; select cut under same permit. Stand also contains interior patches/pockets of S/C/H and trace amounts of WP(supercanopy).
16	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	7.3	78		Lowland conifers with tagalder, ash. Dead BF
17	6120 - Lowland Cedar	High Density Pole	43.5	100		Mainly cedar poles and ash saplings within interior. Areas of slightly higher ground/narrow ridges, esp. along road edge, contain larger conifers. Pocket of tagalder, cattails, dead cedar along private.
19	4130 - Aspen	High Density Sapling	16.8	6		"Mid 19 Mix" sale #006-04 (unit 1) - cut August, Sept., 2005. Retention of C,H,WP,YB. Some swales/low areas within (ash, cattails).

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Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4134 - Aspen, Spruce/Fir	High Density Sapling	10.1	6		"Mid 19 Mix" sale #006-04 (Unit 2) - cut August, 2005. Retention of C,H,WP and BF marked with green.
4112 - Maple, Beech, Cherry Association	Medium Density Pole	8.6	78	51-80	"Mid 19 Mix" sale #006-04 (unit 4) - select cut August, 2005.
6120 - Lowland Cedar	High Density Pole	3.8	91		
4112 - Maple, Beech, Cherry Association	Medium Density Pole	7.7	78	51-80	"Mid 19 Mix" sale #006-04 (unit 3) - cut August, 2005
4113 - R.Maple, Conifer	High Density Pole	5.7	78	111-140	hardwood rise within cedar swamp
6132 - Mixed Lowland Forest with Cedar	High Density Log	2.0	90		Dispose of property?
6120 - Lowland Cedar	Medium Density Pole	99.3	95	111-140	Tagalder, grasses/sedge noted.
6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	13.0	Uneven Age		Large, overmature aspen with red maple, F/S, some WP; scattered cedar pockets/inclusions (180 BA) and mixed lowlands.
6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	8.0	39		Cut under permit #008-72A (1972-74) - contains some lower, wet areas.
4119 - Mixed Northern Hardwoods	Medium Density Pole	8.7	85	81-110	low quality red maple
4130 - Aspen	High Density Sapling	4.7	36		Cut under permit #008-72A (1975-76).
6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	16.5	90		blowdown spruce/fir; numerous dead/dying aspen, tamarack (eastern larch beetle damage)
6120 - Lowland Cedar	High Density Pole	18.8	95		Contains isolated patches of higher timber.
4130 - Aspen	High Density Sapling	21.5	14		T. sale #003-94 "Old Dump Road Block" (unit 2) - clearcut Su, 1997. Trace amounts of WP, PB noted.
6120 - Lowland Cedar	High Density Pole	15.5	106	141-170	
4112 - Maple, Beech, Cherry Association	Medium Density Log	7.2	80	51-80	"Old Dump Block" #003-94 (Unit 1) - select cut July, 1995
4130 - Aspen	High Density Pole	39.1	39		Cut under permit #15-70A (1971-73)
	Level 4 Cover Type 4134 - Aspen, Spruce/Fir 4112 - Maple, Beech, Cherry Association 6120 - Lowland Cedar 4113 - R.Maple, Beech, Cherry Association 4113 - R.Maple, Conifer 6132 - Mixed Lowland Forest with Cedar 6120 - Lowland Cedar 6117 - Lowland Deciduous, Mixed Coniferous 6117 - Lowland Deciduous, Mixed Coniferous 4119 - Mixed Northern Hardwoods 4130 - Aspen 6128 - Lowland Coniferous, Mixed Deciduous 6120 - Lowland Cedar 4130 - Aspen	Level 4 Cover Type 4134 - Aspen, Spruce/Fir 4112 - Maple, Beech, Cherry Association 6120 - Lowland Cedar 4113 - R.Maple, Beech, Cherry Association 4113 - R.Maple, Conifer 6132 - Mixed Lowland Forest with Cedar 6120 - Lowland Cedar 6120 - Lowland Cedar 6120 - Lowland Cedar 6117 - Lowland Deciduous, Mixed Coniferous 6117 - Lowland Deciduous, Mixed Coniferous 4119 - Mixed Northern Hardwoods 4119 - Mixed Northern Hardwoods 6128 - Lowland Coniferous, Mixed Coniferous, Mixed Coniferous 6120 - Lowland Cedar High Density Pole 4130 - Aspen High Density Log 6120 - Lowland Cedar High Density Sapling 6120 - Lowland Cedar High Density Log 6120 - Lowland Cedar High Density Sapling High Density Log 6120 - Lowland Cedar High Density Pole 4130 - Aspen High Density Pole 4130 - Aspen High Density Sapling	Level 4 Cover TypeSize DensityAcres4134 - Aspen, Spruce/FirHigh Density Sapling10.14112 - Maple, Beech, Cherry AssociationMedium Density Pole8.66120 - Lowland CedarHigh Density Pole3.84113 - R.Maple, Beech, Cherry AssociationMedium Density Pole7.76132 - Mixed Lowland Forest with CedarHigh Density Pole5.76132 - Lowland CedarMedium Density Pole99.36117 - Lowland Deciduous, Mixed ConiferousHigh Density Pole13.06117 - Lowland Deciduous, Mixed ConiferousHigh Density Pole8.04119 - Mixed Northern HardwoodsMedium Pole8.74130 - AspenHigh Density Pole16.56128 - Lowland Coniferous, Mixed DeciduousHigh Density Pole16.56120 - Lowland CedarHigh Density Pole16.56120 - Lowland CedarHigh Density Pole15.56120 - Lowland CedarHigh Density Sapling15.56120 - Lowland CedarHigh Density Pole15.54112 - Maple, Beech, Cherry AssociationMedium Density Log7.24130 - AspenHigh Density Pole39.1	Level 4 Cover Type Size Density Acres Stand Age 41134 - Aspen, Spruce/Fir High Density Sapling 10.1 6 4112 - Maple, Beech, Cherry Association Medium Density Pole 8.6 78 6120 - Lowland Cedar High Density Pole 7.7 78 4112 - Maple, Beech, Cherry Association Medium Density Pole 5.7 78 4113 - R.Maple, Conifer High Density Pole 5.7 78 6132 - Mixed Lowland Forest with Cedar High Density Pole 99.3 95 6117 - Lowland Deciduous, Mixed Coniferous High Density Pole 13.0 Uneven Age 6117 - Lowland Deciduous, Mixed Coniferous High Density Pole 8.7 85 4119 - Mixed Northern Hardwoods Medium Density Pole 8.7 85 4119 - Mixed Northern Hardwoods High Density Pole 8.7 90 6128 - Lowland Coniferous, Mixed Deciduous, Mixed Coniferous, Mixed Deciduous High Density Pole 90 6120 - Lowland Cedar High Density Pole 18.8 95 6120 - Lowland Cedar High Density Pole 15.5 106	Level 4 Cover Type Size Density Acres Stand Age Range 4134 - Aspen, Spruce/Fir High Density Sapling 10.1 6

5 - Forested Stands

Compartment: 014

Gwinn Mgt. Unit

s t	Gwinn	Mgt. Unit		5 – Fo	orested Stands	Compartment: 014 Year of Entry: 2014	DNR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN
42	6120 - Lowland Cedar	High Density Pole	60.4	100	141-170		
43	6130 - Fir, Aspen, Maple	High Density Sapling	12.8	39		Cut under permit #15-70A (1972-73).	

6 - Nonforested Stands

Compartment: 014 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	6220 - Alder/willow	1.2	No	Unspecified	dead snags/stumps; beaver influence area
3	6220 - Alder/willow	4.1	No	Unspecified	
18	6220 - Alder/willow	52.0	No	Unspecified	Open grass/sedge marsh areas with tagalder perimeter and tagalder with balsam fir/spruce connector patches. Unnamed creek/drainage within.
24	3104 - Degraded	3.0	No	Unspecified	Possibly dispose of property with stand 26.
29	3104 - Degraded	2.9	No	Unspecified	
31	11 - Low Intensity Urban	16.1	No	Low (NonForested)	Railroad, State Hwy M-35, electric and R.O.W.'s - some lowland shrubs, saplings within
36	3104 - Degraded	7.3	No	Unspecified	Possibly treat stand when adjacent timber is harvested.
37	790 - Other Bare/Sparsely Vegetate	1.4	No	Unspecified	Ditched out lowland area with some saplings around perimeter.

Compartment: 014
Year of Entry: 2014



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

Compartment: 014
Year of Entry 2014



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	7 P		HCVA = High Conservation Value Area SCA = Special Conservation Area				
SCA	Cold Water Stream	stocked trout populations and those of other co year to year. Coldwater streams in Michigan typ	olved oxygen conditions that allow naturally-reproduced or oldwater fish species (e.g., slimy sculpin) to persist from pically provide these conditions due to substantial lows. Such streams are established by Director's action and der 210.				