



**Gwinn Forest Management Unit
Compartment Review Presentation
Compartment 048 Entry Year: 2014
Compartment Acreage: 1,585 County: Marquette**

Revision Date: 8/20/12

Stand Examiner: Theresa Sysol

Legal Description: T44N R26W Section(s) 1, 2, 3

RMU (if applicable): Chain Lakes Moraine 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 undulating upland terrain. Slightly higher elevations are in the eastern portion of the compartment. Major soils are Rubicon sand, Kalkaska sand, Croswell sand, Karlin sandy loam, Carbondale and Tawas mucks, Greenwood and Dawson mucks, Garlic-Alcona-Voelker complex and Histosols and Aquepts.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State lands to the south with non-industrial private lands to the north, west and east. These private lands are generally held for the recreational use of deer hunting with the production of forest products as a secondary objective. Year round residences are beginning to be established just east of the compartment. Land use within the compartment is a mixture of both recreation and production of commercial forest products.

Unique, Natural Features: No special concerns listed with MNFI. Potential for purple clematis in rocky openings in forested matrix. Potential for RSH and goshawk in M6 and mature aspen stands.

Archeological, Historical, and Cultural Features: None listed with HAL. Some old logging camp sites, though.

Special Management Designations or Considerations: Anderson Lake cross-country ski trail and pathway

Watershed and Fisheries Considerations: pothole lakes, such as Sleighrunner and Beltrame Lakes within the eastern portion of the compartment. Miller Creek in the western portion.

Wildlife Habitat Considerations: Featured species include black bear, gray jay, northern goshawk, pileated woodpecker and red crossbill.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of medium-textured glacial till, and minor amounts of peat and muck and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 100 and 200 feet. The Cambrian Trempealeau and Munising Formations subcrop below the Glacial Drift. The Trempealeau could be used for stone. Gravel pits are located one mile to the northeast, and there should be some potential. Abandoned iron mines are located two miles to the northeast, but this compartment has never been leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: Good access throughout the compartment mainly via Perrin Brothers Road (county maintained road) and Miller Creek Road (State maintained). Numerous good two-track roads are located throughout the compartment, some of which are temporarily bermed.

Survey Needs: Corners were requested and established along the east side of Section 1 last entry. No additional needs this entry.

Recreational Facilities and Opportunities: A portion of the Anderson Lake cross-country ski trail crosses the SE portion of the compartment. Also, during the winter season, Perrin Brothers Road is also used as the snowmobile trail. Other opportunities include hunting, fishing, hiking, berry picking and scenic drives.

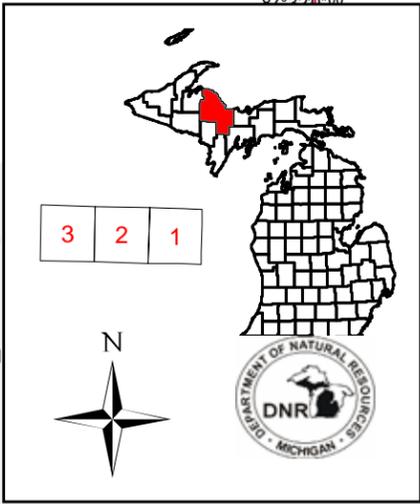
Fire Protection: Some pine types and sandy soils make this area somewhat prone to fires.

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: 048
 T44N R25W Sec. 06
 T44N R26W Sec. 1, 2, 3
 County: Marquette
 Unit: Gwinn
 YOE: 2014
 Acres: 1,585 GIS Calculated
 Examiner: Theresa Sysol
 Map Revised: 08/29/2012
 Map Phase: Pre-Review



Cover Type & Treatment Map

Stand #
 23
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Legend

- Survey Grade
- Remonumented Section Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Gate
- Berms
- Structures
- Stream
- Intermittent Stream
- Ski Trail
- Hiking Trail
- Snowmobile Trail
- Hiking Trails
- Ski Trails
- Snowmobile Trails
- Lakes and Rivers
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Other Treatment - See Comments

Forest Stands

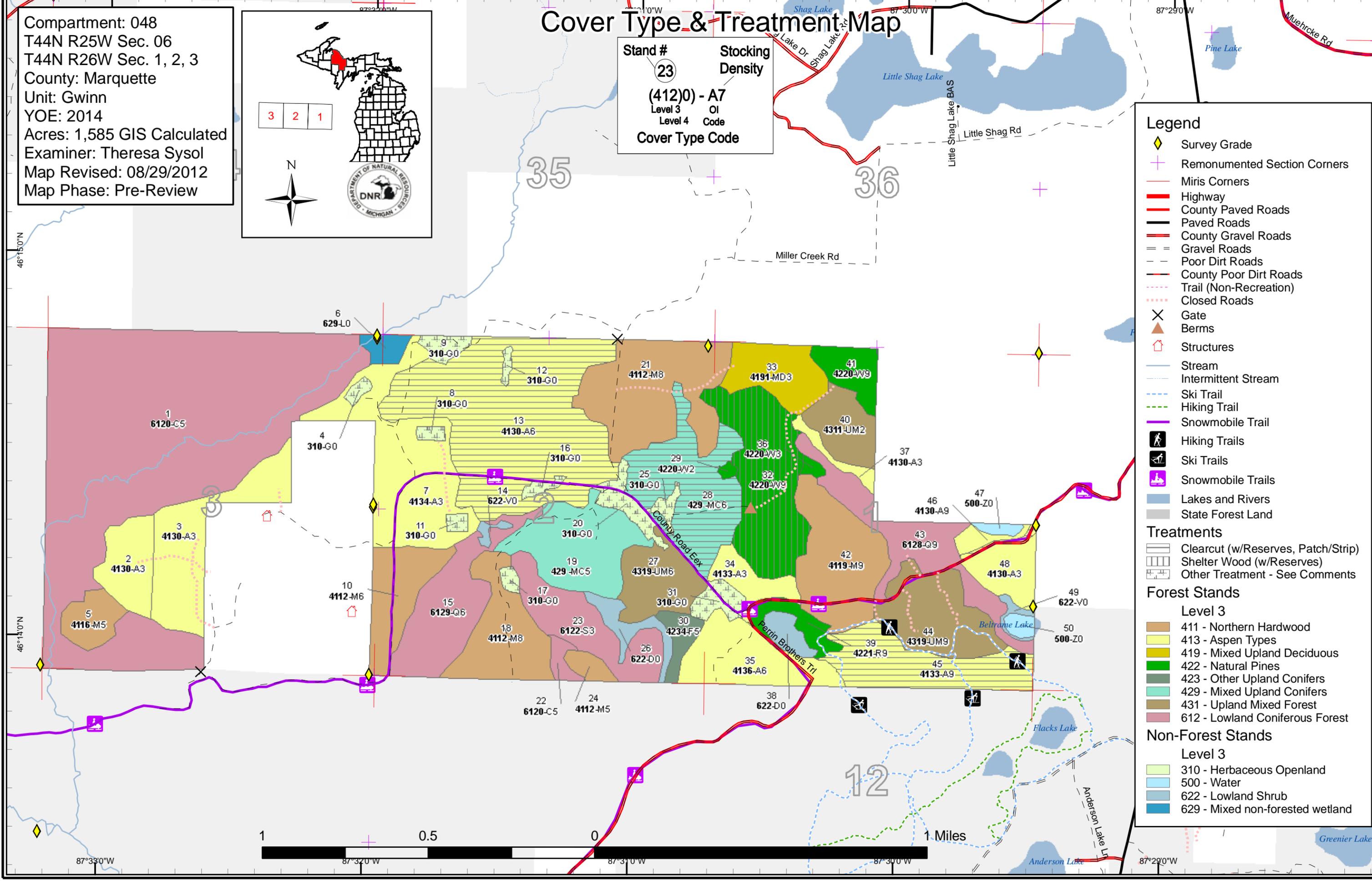
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

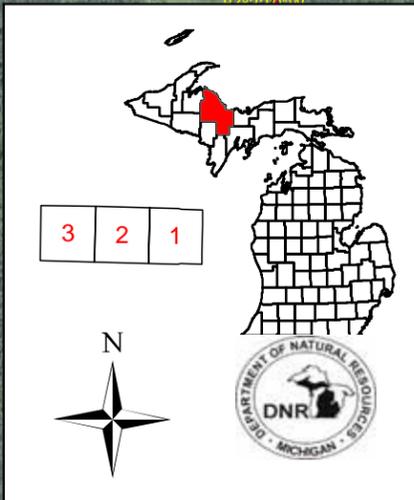
Level 3

- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland



Stand Boundary Map

Compartment: 048
 T44N R25W Sec. 06
 T44N R26W Sec. 1, 2, 3
 County: Marquette
 Unit: Gwinn
 YOE: 2014
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 Examiner: Theresa Sysol
 Map Revised: 04/05/2012
 Map Phase: Pre-Review



Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Legend

- Survey Grade
- Remonumented Section Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Gate
- Berms
- Structures
- Stream
- Intermittent Stream
- Pipe
- Power
- Ski Trail
- Hiking Trail
- Snowmobile Trail
- Hiking Trails
- Ski Trails
- Snowmobile Trails
- Stand Boundaries

Forest Stands

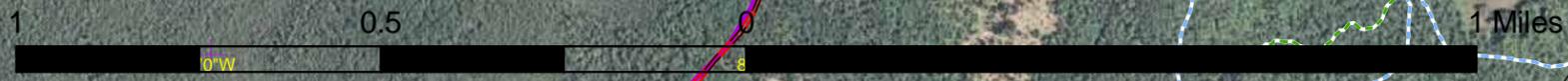
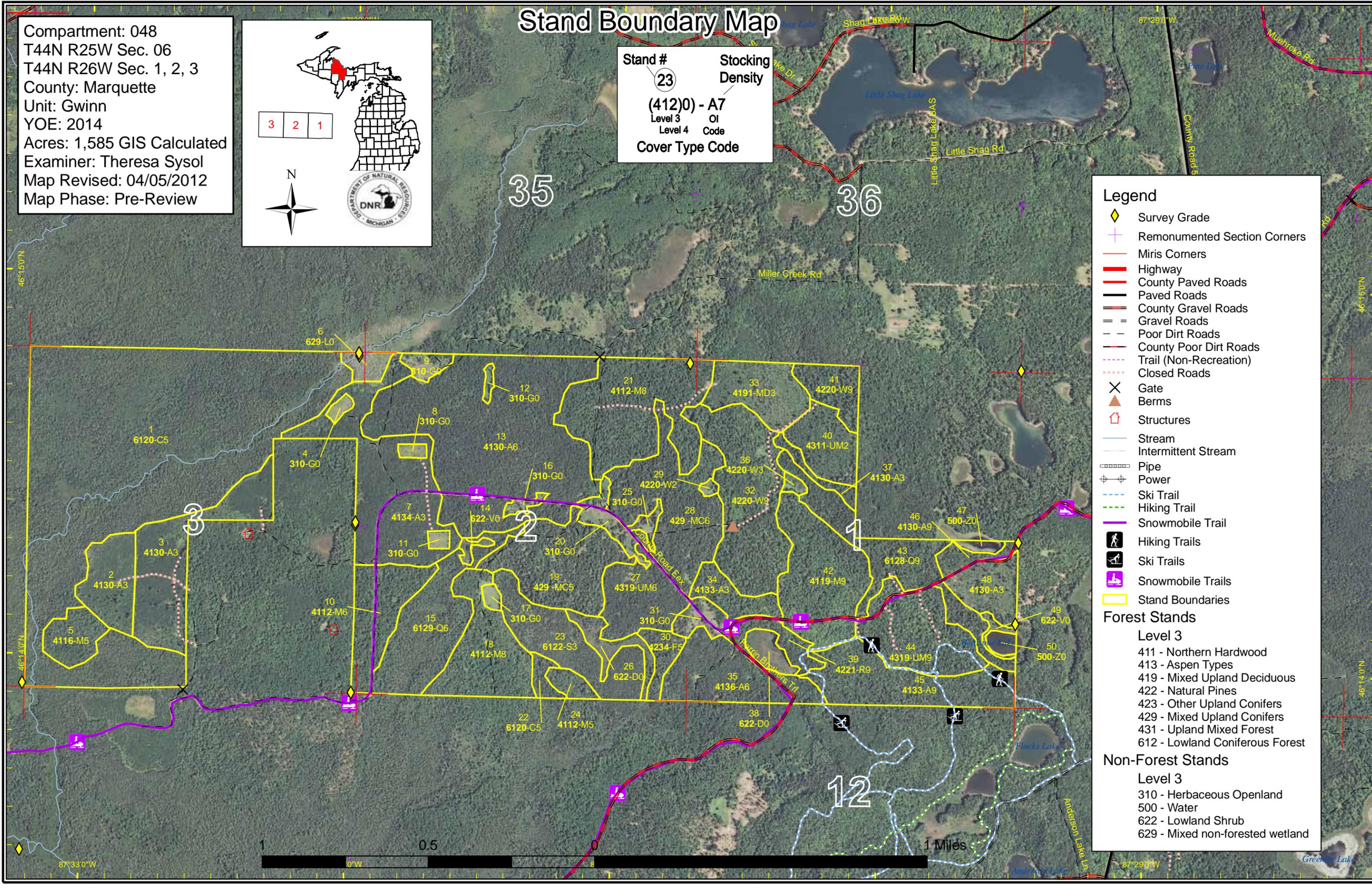
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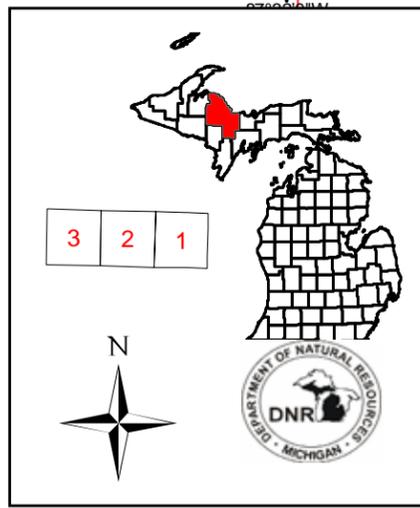
Non-Forest Stands

Level 3

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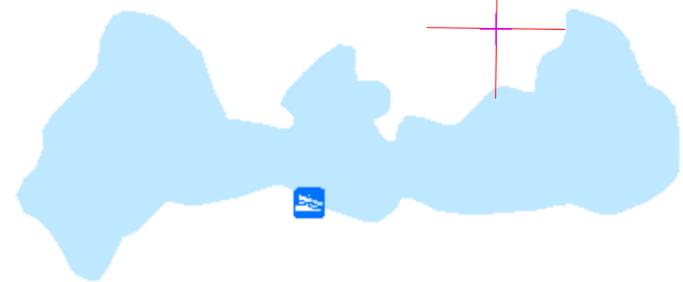


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 T44N R25W Sec. 06
 T44N R26W Sec. 1, 2, 3
 County: Marquette
 Unit: Gwinn
 YOY: 2014
 Acres: 1,585 GIS Calculated
 Examiner: Theresa Sysol
 Map Revised: 08/29/2012
 Map Phase: Pre-Review



Dedicated & Proposed Special Conservation Area Map

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- Proposed Special Conservation Areas**
- SCA - Special Conservation Area
- SCA Removal
- Dedicated Special Conservation Areas**
- Cold Water Streams
- Cold Water Lakes
- Boat Access Sites

Forest Stands

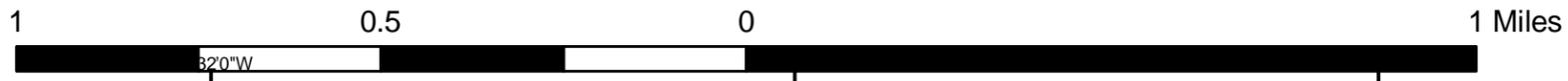
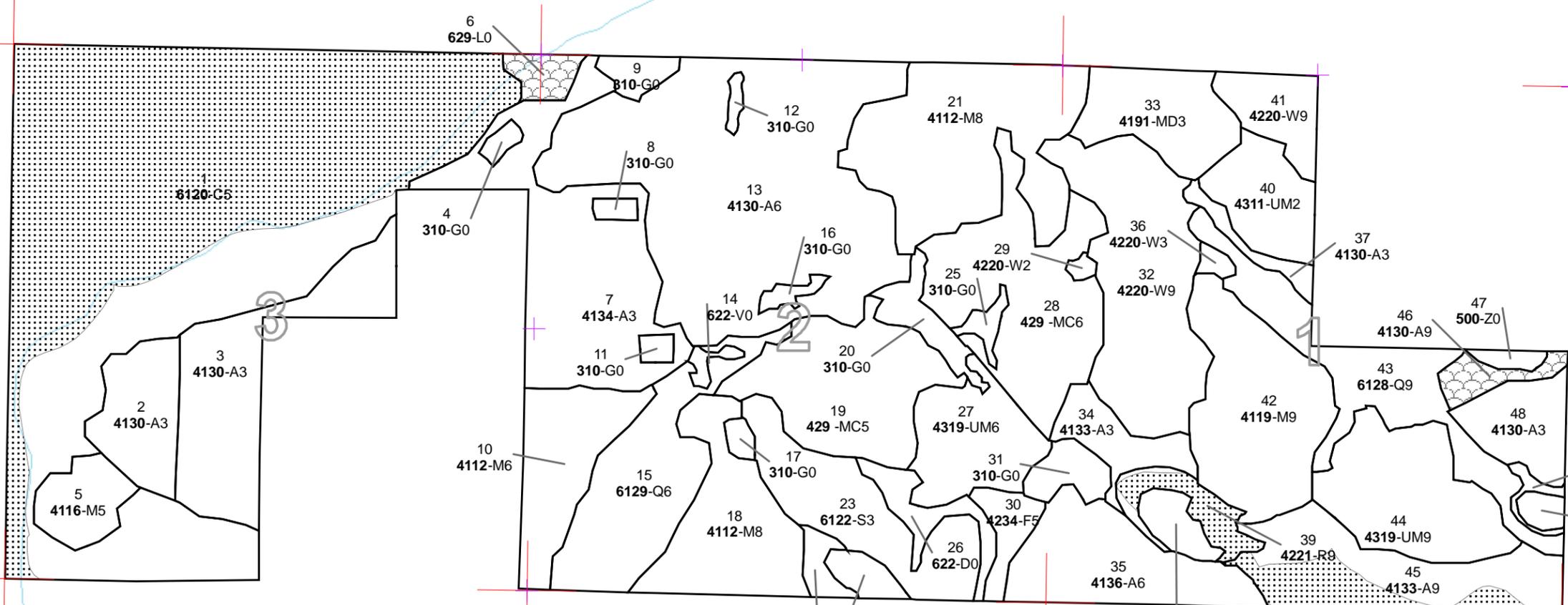
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Non-Forest Stands

Level 3

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46°15'0"N

46°14'0"N

46°15'0"N

46°14'0"N

87°31'0"W

87°30'0"W

87°29'0"W

87°33'0"W

87°32'0"W

87°29'0"W

Table 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +	Uneven Age	
Aspen	45	62	90	47	0	158	0	50	7	0	0	0	0	0	460
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Cedar	0	0	0	0	0	0	0	0	5	0	333	0	0	0	338
Herbaceous Openland	41	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	94	94
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	41	0	0	0	0	41
Mixed Upland Deciduous	29	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Northern Hardwood	0	0	0	0	0	0	0	0	123	42	0	0	0	57	222
Red Pine	0	0	0	0	0	0	0	0	0	0	0	12	0	0	12
Treed Bog	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Upland Conifers	0	0	0	0	0	63	0	0	0	0	0	0	0	52	114
Upland Mixed Forest	0	0	0	31	0	0	0	0	0	0	0	0	0	69	100
Upland Spruce/Fir	0	0	0	9	0	0	0	0	0	0	0	0	0	0	9
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	0	3	0	0	0	0	0	0	68	0	0	0	16	88
Total	152	62	94	87	0	221	0	50	135	152	333	12	0	287	1585



Table 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit
Year of Entry 2014

Compartment 048
Total Compartment Acres: 1585

Acres by Treatment Type

Commercial Harvest - 342	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 41	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

		<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Aspen	210	0	0	0	0	0	0	210
Upland Conifers	63	0	0	0	0	0	0	63
White Pine	0	0	0	68	0	0	0	68
Total	273	0	0	68	0	0	0	342



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	32048013-Cut	158.4	4130 - Aspen	High Density Pole	56		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Harvest all aspen, balsam fir. Leave most, if not all white pine; cut larger white spruce (use diameter cut or mark leave trees) - breakage noted in these older trees. Once intensive cruise is complete, either designate birch, cherry as leave-all, or mark leave trees and cut remainder.</p> <p><u>Specs:</u></p> <p><u>Other</u> --Theresa Sysol : 08/20/2012 comments: per WLD at pre-review - leave a few large aspen, windfirm white spruce, if available</p> <p><u>Comments:</u> Possibly consider chipping as an option.</p> <p><u>Next</u> Monitor regeneration, per work instructions.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2013</p>										
28	32048028-Cut	62.8	429 - Mixed Upland Conifers	High Density Pole	57		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<p><u>Prescription</u> Harvest all aspen, balsam fir - quite a bit of dead/dying A/BF overtopping smaller F/S already. Jack pine within, mainly noted around the old grass opening, should be harvested. Trace amount of red pine regeneration to retain. Leave patches/pockets of smaller F/S when harvesting, using a sale spec. (stump diameter) to cover random retention.</p> <p><u>Specs:</u></p> <p><u>Other</u> --Theresa Sysol : 08/20/2012 comments: per WLD at pre-review - leave a few large aspen, windfirm white spruce, if available</p> <p><u>Comments:</u> Old WP snags within. Possibly consider chipping as an option.</p> <p><u>Next</u> Monitor regeneration, per work instructions. MO could be for either A or F. A mixed stand would be acceptable.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2013</p>										
32	32048032-Cut	68.4	42200 - Natural White Pine	High Density Log	94	81-110	Harvest	Shelter Wood with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Mark red and white pine to 40-60 BA to encourage the natural regeneration process, providing sufficient shelter for seedling establishment.</p> <p><u>Specs:</u> Remove all merchantable aspen, paper birch, red maple, balsam fir and spruce.</p> <p><u>Other</u> To prevent weeviling of future white pine, some areas with higher BA (up to 80) can be left.</p> <p><u>Comments:</u></p> <p><u>Next</u> Consider mechanical site prep to disturb soil for seed bed preparation if harvest does not prepare the site adequately. Monitor for acceptable regeneration of red and white pine; additional species mix of aspen, birch and some spruce/fir is also acceptable.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2013</p>										
45	32048045-Cut	49.7	4133 - Aspen, Mixed Pine	High Density Log	71	81-110	Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Harvest all aspen, balsam fir and leave tree mark most paper birch and red maple, especially in areas where they are predominate. Encourage natural red and white pine areas of regeneration where they currently exist. Consider cross-country ski trail influence and design treatment boundary to protect as much of this as possible. Summer harvest would be desired.</p> <p><u>Specs:</u></p> <p><u>Other</u> --Theresa Sysol : 08/20/2012 comments: per WLD at pre-review - leave hemlock, white pine, some windfirm white spruce and large forked aspen (for goshawk), if present</p> <p><u>Comments:</u> A lot of dead/dying, overmature aspen (numerous uprooted trees also) within, which has become a blowdown problem for the X-C ski trail. Recommend treatment to improve/enhance not only health of stand, but quality of recreational trail.</p> <p><u>Next</u> Monitor regeneration, per work instructions. Acceptable species include: aspen, birch and mixed pine.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2013</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
46	32048046-Cut	2.2	4130 - Aspen	High Density Log	81		Harvest	Patch or Strip Clearcut	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Prescription</u> Remove all aspen within ROW of county road, yet protect visual influence along Sleighrunner Lake.										
<u>Specs:</u>										
<u>Other</u> Selectively harvest along the Perrin Bros. Road where overmature aspen will/has become a hazard.										
<u>Comments:</u>										
<u>Next</u> Monitor for any futher hazards.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
4	NF_32048004- NonFor	2.3	3103 - Rubus-Fern				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> If funds or personnel are available, this opening will be scheduled for maintenance. Maintenance may include wildlife plantings (rye or other										
<u>Specs:</u> suitable wildlife mix), shrub or tree plantings, required yearly maintenance, brush removal, and other maintenance practices as required.										
<u>Other</u> Possible location for a cooperative project with hunters or sportsmen groups.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
8	NF_32048008- NonFor	2.1	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> If funds or personnel are available, this opening will be scheduled for maintenance. Maintenance may include wildlife plantings (rye or other										
<u>Specs:</u> suitable wildlife mix), shrub or tree plantings, required yearly maintenance, brush removal, and other maintenance practices as required.										
<u>Other</u> Possible location for a cooperative project with hunters or sportsmen groups.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
9	NF_32048009- NonFor	5.7	3103 - Rubus-Fern				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> If funds or personnel are available, this opening will be scheduled for maintenance. Maintenance may include wildlife plantings (rye or other										
<u>Specs:</u> suitable wildlife mix), shrub or tree plantings, required yearly maintenance, brush removal, and other maintenance practices as required.										
<u>Other</u> Possible location for a cooperative project with hunters or sportsmen groups.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
11	NF_32048011- NonFor	2.2	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> If funds or personnel are available, this opening will be scheduled for maintenance. Maintenance may include wildlife plantings (rye or other										
<u>Specs:</u> suitable wildlife mix), shrub or tree plantings, required yearly maintenance, brush removal, and other maintenance practices as required.										
<u>Other</u> Possible location for a cooperative project with hunters or sportsmen groups.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12	NF_32048012- NonFor	1.7	3103 - Rubus-Fern				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<p><u>Prescription</u> If funds or personnel are available, this opening will be scheduled for maintenance. Maintenance may include wildlife plantings (rye or other suitable wildlife mix), shrub or tree plantings, required yearly maintenance, brush removal, and other maintenance practices as required. Timber harvest activity in adjacent stands may be used to help maintain this opening by removing encroachment.</p> <p><u>Specs:</u></p> <p><u>Other</u> Possible location for a cooperative project with hunters or sportsmen groups.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> Unspecified</p>										
16	NF_32048016- NonFor	2.6	3103 - Rubus-Fern				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<p><u>Prescription</u> If funds or personnel are available, this opening will be scheduled for maintenance. Maintenance may include wildlife plantings (rye or other suitable wildlife mix), shrub or tree plantings, required yearly maintenance, brush removal, and other maintenance practices as required. Timber harvest activity in adjacent stands may be used to help maintain this opening by removing encroachment.</p> <p><u>Specs:</u></p> <p><u>Other</u> Possible location for a cooperative project with hunters or sportsmen groups.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> Unspecified</p>										
17	NF_32048017- NonFor	2.3	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<p><u>Prescription</u> If funds or personnel are available, this opening will be scheduled for maintenance. Maintenance may include wildlife plantings (rye or other suitable wildlife mix), shrub or tree plantings, required yearly maintenance, brush removal, and other maintenance practices as required.</p> <p><u>Specs:</u></p> <p><u>Other</u> Possible location for a cooperative project with hunters or sportsmen groups.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> Unspecified</p>										
25	NF_32048025- NonFor	3.4	3103 - Rubus-Fern				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<p><u>Prescription</u> If funds or personnel are available, this opening will be scheduled for maintenance. Maintenance may include wildlife plantings (rye or other suitable wildlife mix), shrub or tree plantings, required yearly maintenance, brush removal, and other maintenance practices as required. Timber harvest activity in adjacent stands may be used to help maintain this opening by removing encroachment.</p> <p><u>Specs:</u></p> <p><u>Other</u> Possible location for a cooperative project with hunters or sportsmen groups.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> Unspecified</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
31	NF_32048031- NonFor	8.7	3103 - Rubus-Fern				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<p><u>Prescription</u> If funds or personnel are available, this opening will be scheduled for maintenance. Maintenance may include wildlife plantings (rye or other suitable wildlife mix), shrub or tree plantings, required yearly maintenance, brush removal, and other maintenance practices as required. Timber harvest activity in adjacent stands may be used to help maintain this opening by removing encroachment.</p> <p><u>Specs:</u></p> <p><u>Other</u> Possible location for a cooperative project with hunters or sportsmen groups.</p> <p><u>Comments:</u></p> <p><u>Next</u></p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> Unspecified</p>										
Total Treatment Acreage Proposed:		372.6								

**Table 4 -- Treatments Prescribed with
a Limiting Factor**



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

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Error

Limiting Factor and No
Treatment Reason

**Total Treatment
Acreage Proposed: 0**

**Out of YOE -- Treatments
Prescribed with No Limiting Factor**

Year of Entry: 2014



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

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**Total Treatment
Acreage Proposed: 0**



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Medium Density Pole	333.3	108		contains Miller Creek. Ground cover of leatherleaf, lab tea, sphagnum noted. Dead P. birch within.
2	4130 - Aspen	High Density Sapling	25.3	7		"Antler Club Aspen" sale #017-04 (24 acs) - cut July, 2004. Ground cover of raspberry, bracken fern, bunchberry and princess pine noted. WP snags.
3	4130 - Aspen	High Density Sapling	61.9	16		"Antlers Club Aspen Block" #026-94 (52 acs) - cut 1994. Ground cover of grasses, bracken, raspberry brush.
5	4116 - Mixed N. Hardwood - Aspen	Medium Density Pole	15.4	80	81-110	Low quality maple/aspen mixed stand within swamp.
7	4134 - Aspen, Spruce/Fir	High Density Sapling	75.0	27	81-110	"Miller Creek Block" #017-84 (86 acres) - cut 1984-85 (units 1-4); ground cover of bunchberry, club moss, bracken fern, pearly everlasting noted. Trace amount of WP.
10	4112 - Maple, Beech, Cherry Association	High Density Pole	28.9	85	81-110	"Antler Club Hardwoods" sale #018-04 (22 acs) - cut 2004. Wildlife underplanting of hemlock spring, 2005 - very few noted. Trace amounts of NR Oak, YB, PB, cedar and WS. Club moss ground cover noted.
13	4130 - Aspen	High Density Pole	158.4	56		Aspen with good mix of spruce/fir ; hypoxylon and breakage noted
15	6129 - Mixed Coniferous Lowland Forest	High Density Pole	49.3	Uneven Age		Higher transition edges drop into mainly lowland interior. Club moss, bracken fern, tagalder noted.
18	4112 - Maple, Beech, Cherry Association	Medium Density Log	42.1	90	81-110	"Miller Creek Hardwood" #027-94 (59 acs) - cut July, 1996. Low quality pulp/log stand. Stand edges transition into H,C, spruce, with maple and birch. Trace amounts of aspen, birch, hemlock and cedar within.
19	429 - Mixed Upland Conifers	Medium Density Pole	51.6	Uneven Age	51-80	"Miller Creek Block No. 2" sale #18-77A - cut mainly Su, 1978 (although "clean up" work was done through Feb, 1980) - cut all F,S,A,B,M,H, C and marked WP.
21	4112 - Maple, Beech, Cherry Association	Medium Density Log	72.6	85	51-80	"Bjork's Camp Sale" #019-04 (unit 1-5) - 57 acres cut August, Sept, 2006. Ground cover of bracken, sedge, raspberry, princess pine, club moss noted. Quite a bit of defect within stand yet (forks, seams, stain).
22	6120 - Lowland Cedar	Medium Density Pole	5.0	81		Larger diameter cedar with spruce, hemlock and older yellow birch, red maple legacy-type wildlife trees. Balsam fir regeneration thick on stand edges, otherwise sparse.
23	6122 - Black Spruce	High Density Sapling	41.2	91		Spruce bog with sphagnum, lab tea ground cover. Thicker patch of tamarack at the north end of stand.
24	4112 - Maple, Beech, Cherry Association	Medium Density Pole	6.0	88	81-110	Maple poles with wildlife quality large diameter red maple and yellow birch, with thick balsam fir regeneration. Some blowdown timber.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	4319 - Mixed Upland Forest	High Density Pole	30.5	32		part of "Miller Creek Block No. 2" sale #18-77A - cut mainly Su, 1978.
28	429 - Mixed Upland Conifers	High Density Pole	62.8	57		Dead/dying aspen and fir within. Heavy S/F understory. Club moss ground cover.
29	42200 - Natural White Pine	Medium Density	1.3	20		>25% canopy cover
30	42340 - Upland Spruce/Fir	Medium Density Pole	9.0	33		Scattered larger trees; gaps with more aspen.
32	42200 - Natural White Pine	High Density Log	68.4	94	81-110	"Perrin Brothers Pine Sale" #033-85 - cut Nov, 1986. Selectively mark pine to start natural regeneration process.
33	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	29.2	4		"Bjork's Camp Sale" #019-04 (Unit 6,7,8 = 27 acs) - cut September, 2007. Left WP, oak.
34	4133 - Aspen, Mixed Pine	High Density Sapling	15.2	27		Some larger timber was left along road for visual/aesthetic purposes from previous cut. Trace amounts of RP, JP.
35	4136 - Aspen, Mixed Conifer	High Density Pole	41.4	31		"Miller Creek Block No. 1" sale #15-77A - cut Fall, 1978 and W, Sp, 1980 (no activity in 1979). White pine/spruce patches mixed within aspen. Ground cover of club moss, princess pine and <2' BF/WP regen all noted.
36	42200 - Natural White Pine	High Density Sapling	2.1	21		W/R stand >25% canopy. "Perrin Brothers Pine Sale" #033-85 - cut Nov-Dec., 1986 (clearcut patch w/in Unit 1).
37	4130 - Aspen	High Density Sapling	5.9	34		T. sale #006-78 (5 acs) - cut 1978. Ground cover of bracken fern noted.
39	42210 - Natural Red Pine	High Density Log	12.0	112	141-170	Very visually appealing stand; Anderson Lake cross country trail influence. Previous nomination as Special Conservation Area (SCA).
40	4311 - Pine, Aspen Mix	Medium Density	22.9	Uneven Age	1-50	"Sleighrunner Lake" sale #028-94 (Unit 2) - cut June, 1997 (16 acres)
41	42200 - Natural White Pine	High Density Log	15.9	Uneven Age	51-80	"Sleighrunner Lake" sale #028-94 (Unit 1 - 19 acres) - cut July, 1997.
42	4119 - Mixed Northern Hardwoods	High Density Log	56.6	Uneven Age	81-110	"Perrin Brother's Hardwood" sale #021-04 (38 acs) - cut Nov., 2004 Ridge heavier to sugar maple with lower edges to red maple, yellow birch, conifers. Ground cover of raspberry, blackberry. Scattered big pine. Anderson Lake X-C ski trail influence along south stand boundary.
43	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	44.9	Uneven Age	81-110	Very variable stand with lower, open areas mixed within.

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Gwinn Mgt. Unit

5 – Forested Stands

Compartment: 048

Year of Entry: 2014



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	4319 - Mixed Upland Forest	High Density Log	46.2	Uneven Age		"Ski Trail Sale" #004-85 - cut 1987 (salvaged overmature A,F).
45	4133 - Aspen, Mixed Pine	High Density Log	49.7	71	81-110	Rolling terrain. Contains Anderson Lake X-C ski trail. Previous nomination as Special Conservation Area (SCA).
46	4130 - Aspen	High Density Log	7.5	81		Previous nomination as Special Conservation Area (SCA). Provides buffer for Sleighrunner Lake.
48	4130 - Aspen	High Density Sapling	19.9	3		"Sleighrunner Lake Sale" #032-07 (17 acs) - cut Oct, 2007. Buffer left along Beltrame Lake wetland and sale also contained a vernal pond exclusion area(s). Any RP, WP, Oak, Hem and cedar within sale area were retained.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	3103 - Rubus-Fern	2.3	No	Unspecified	FTP W32-377: cleared 9/1989 and seeded 6/1990
6	629 - Mixed non-forested wetland	6.7	No	Unspecified	Previous SCA area - remove designation?
8	3102 - Grass	2.1	Yes	Low (NonForested)	FTP W32-377: cleared 9/1989 and seeded 6/1990 grass opening with slow edge encroachment
9	3103 - Rubus-Fern	5.7	No	Unspecified	encroachment of F, S, T and A
11	3102 - Grass	2.2	Yes	Low (NonForested)	very little encroachment
12	3103 - Rubus-Fern	1.7	No	Unspecified	slow encroachment
14	6225 - Bog	2.2	No	Unspecified	leatherleaf, iris ground cover noted
16	3103 - Rubus-Fern	2.6	No	Unspecified	some encroachment of QA, RM; scattered BF, WP (weeviled)
17	3102 - Grass	2.3	Yes	Low (NonForested)	part of t. sale #27-94 (Unit 3) "Miller Creek Hardwood" - cut 1996 and opening created
20	3103 - Rubus-Fern	10.1	No	Unspecified	~8" snow-covered
25	3103 - Rubus-Fern	3.4	No	Unspecified	encroachment; consider harvesting merchantable trees with adjacent stand when prescribed.
26	6224 - Treed Bog	11.0	No	Unspecified	
31	3103 - Rubus-Fern	8.7	No	Unspecified	WP esp. heavy along edges; aspen, F/S encroachment
38	6224 - Treed Bog	8.0	No	Unspecified	treed bog adjacent to Perrin Brothers Road; leatherleaf ground cover
47	50 - Water	2.9	No	Unspecified	Sleighrunner Lake
49	6225 - Bog	2.6	No	Unspecified	leatherleaf bog surrounding lake
50	50 - Water	3.6	No	Unspecified	Beltrame Lake



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	32048_SCA	9.9	SCA - Recreational and scenic value along Anderson Lake cross-county ski trail/pathway.
multiple - see	Unique Site - SCA	32048_SCA_Edt	232.3	SCA - Riparian corridor for Miller Creek and deer cover area.
multiple - see	Unique Site - SCA	32048_SCA_Edt	17.9	SCA - Recreational and scenic value along Anderson Lake cross-county ski trail/pathway.
multiple - see	SCA Removal	32048_SCA_Edt	7.5	SCA removal - Maintain visual and BMP buffer along Sleighrunner Lake, though.
6	SCA Removal	NF_32048006	6.7	SCA removal - Area flooded out by beaver.



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.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.