



COMPARTMENT REVIEW PRESENTATION

GAYLORD FOREST MANAGEMENT UNIT

COMPARTMENT: 161

ENTRY YEAR: 2014

ACREAGE: 558

COUNTY: Cheboygan

Revision Date: 05/11/2012

Stand Examiner: Don Stacks

Legal Description: T37N R02W, Sections 6, 7. T37N R03W Section 1.

Management Goals: To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

Soil and Topography: Rubicon-Roselawn sands and Lupton muck on flat ground.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Numerous residential homes and a few small farms are located adjacent to the compartment.

Unique, Natural Features: MNFI reports osprey to the north of the compartment, with slight potential for red-shouldered hawk or goshawk. Several species of flora have also been identified.

Archeological, Historical, and Cultural Features: A search of the Archeological Sites database identified moderate potential but no known sites.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations: As there is no water in this portion of the compartment, Fisheries Division has no concerns at this time

Wildlife Habitat Considerations: This small compartment is mostly lowland with some upland areas along the east side. The lowland areas support a variety species including black bear, white-tailed deer, furbearers and various amphibians. One stand of upland aspen is going to be treated to provide early successional habitat that benefits woodcock, grouse, and white-tailed deer

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured glacial till (highlands to west), and lacustrine (lake) sand and gravel. The glacial drift thickness varies between 100 and 400 feet. The Devonian Detroit River Group subgroups below the glacial drift. The nearest gravel pit is located to the northwest and the uplands have good gravel potential. The nearest oil and gas production, the Guelph (former Niagaran) reef trend, is located 24 miles to the south. There are no state leases and no known oil and gas potential in the area.

Vehicle Access: Hill Rd. and Maynard Rd. are seasonal county roads that provide access to the northeast corner of the compartment. A couple forest trail roads run into the compartment from the east off Hill Rd.

Survey Needs: None needed.

Recreational Facilities and Opportunities: Various hunting opportunities exist.

Fire Protection: The majority of the compartment is conifer swamp. The Indian River Field Office is located twenty miles to the south and the Inverness Township VFD is located about five miles to the west.

Additional Compartment Information:

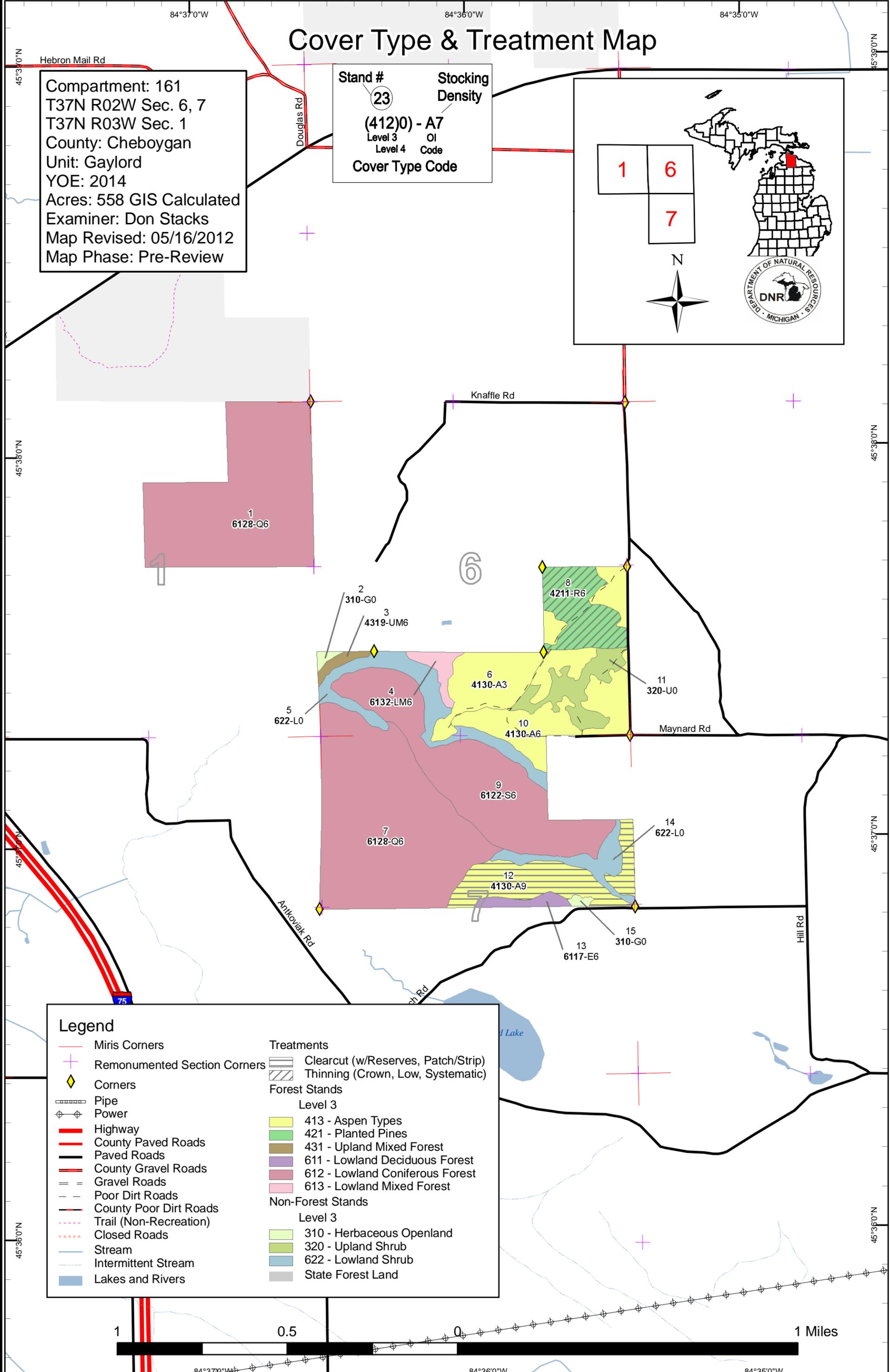
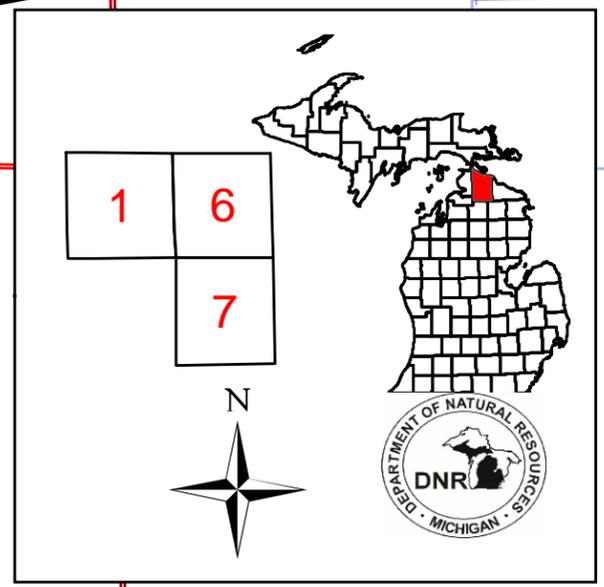
- **The following 3 reports from the IFMAP Inventory System are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **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 and current SCA's**

Cover Type & Treatment Map

Compartment: 161
 T37N R02W Sec. 6, 7
 T37N R03W Sec. 1
 County: Cheboygan
 Unit: Gaylord
 YOY: 2014
 Acres: 558 GIS Calculated
 Examiner: Don Stacks
 Map Revised: 05/16/2012
 Map Phase: Pre-Review

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



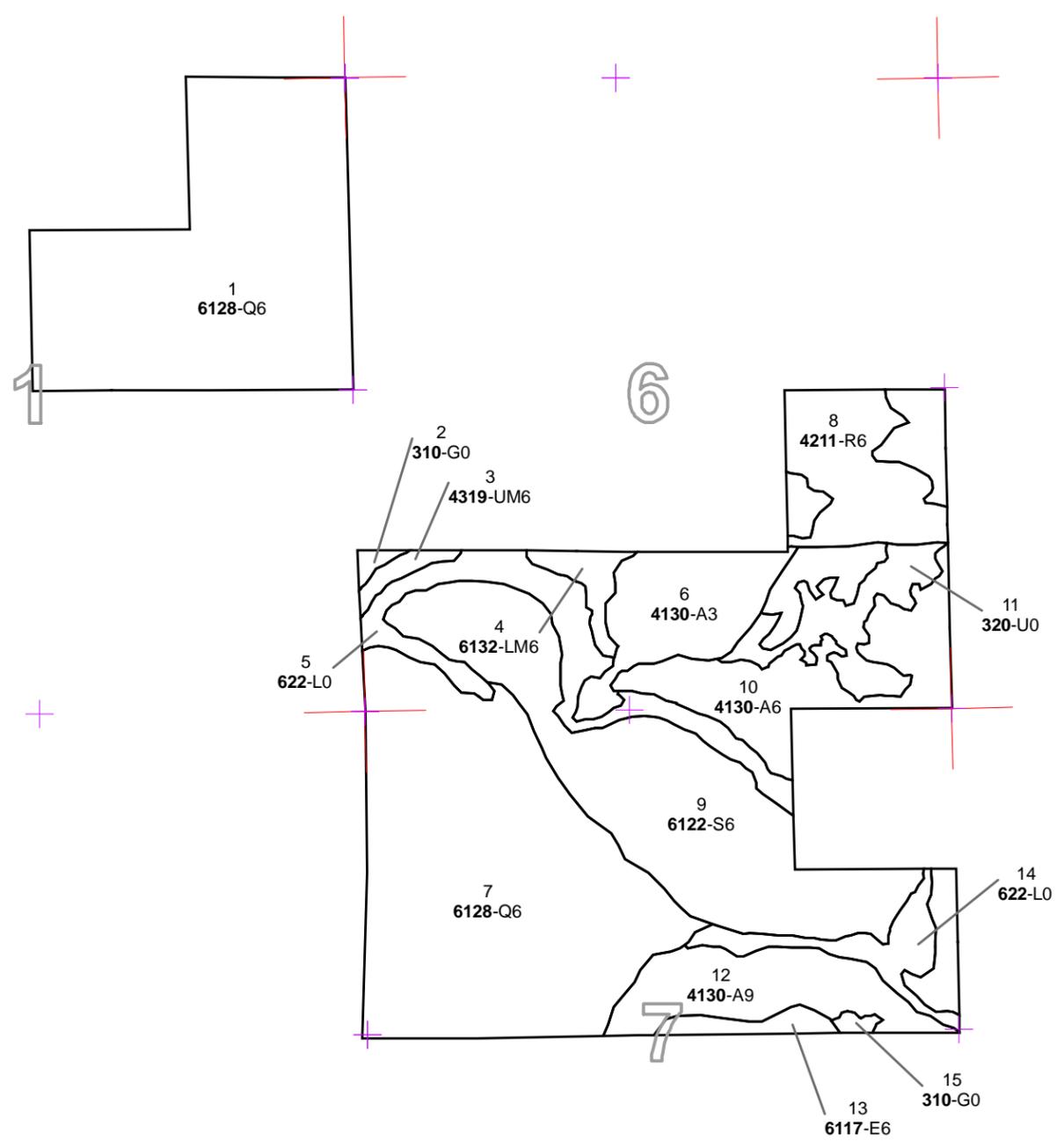
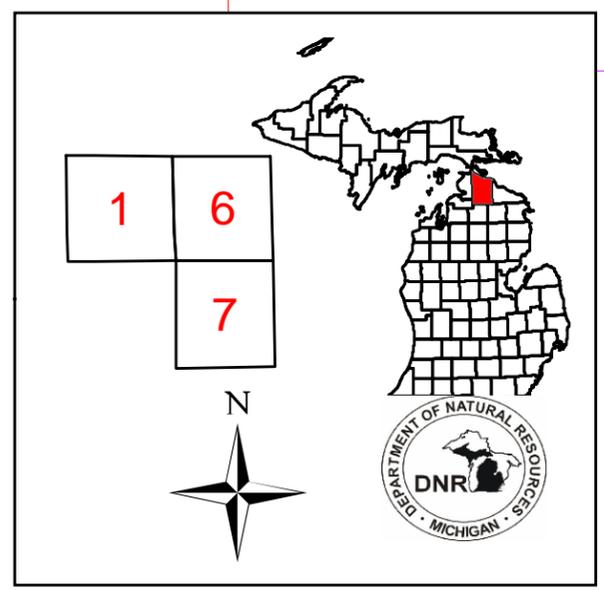
Legend

<ul style="list-style-type: none"> —+— Miris Corners —+— Remonumented Section Corners ◆ Corners — — Pipe ⊕ Power — Highway — County Paved Roads — Paved Roads — County Gravel Roads — Gravel Roads — Poor Dirt Roads — County Poor Dirt Roads — Trail (Non-Recreation) — Closed Roads — Stream — Intermittent Stream — Lakes and Rivers 	<p>Treatments</p> <ul style="list-style-type: none"> — Clearcut (w/Reserves, Patch/Strip) — Thinning (Crown, Low, Systematic) <p>Forest Stands</p> <p>Level 3</p> <ul style="list-style-type: none"> 413 - Aspen Types 421 - Planted Pines 431 - Upland Mixed Forest 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest 613 - Lowland Mixed Forest <p>Non-Forest Stands</p> <p>Level 3</p> <ul style="list-style-type: none"> 310 - Herbaceous Openland 320 - Upland Shrub 622 - Lowland Shrub State Forest Land
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Dedicated & Proposed Special Conservation Area Map

Compartment: 161
 T37N R02W Sec. 6, 7
 T37N R03W Sec. 1
 County: Cheboygan
 Unit: Gaylord
 YOE: 2014
 Acres: 558 GIS Calculated
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 Map Revised: 05/16/2012
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Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend
 — Miris Corners
 + Remonumented Section Corners
 □ Stand Boundaries
Forest Stands
 Level 3
 413 - Aspen Types
 421 - Planted Pines
 431 - Upland Mixed Forest
 611 - Lowland Deciduous Forest
 612 - Lowland Coniferous Forest
 613 - Lowland Mixed Forest
Non-Forest Stands
 Level 3
 310 - Herbaceous Openland
 320 - Upland Shrub
 622 - Lowland Shrub

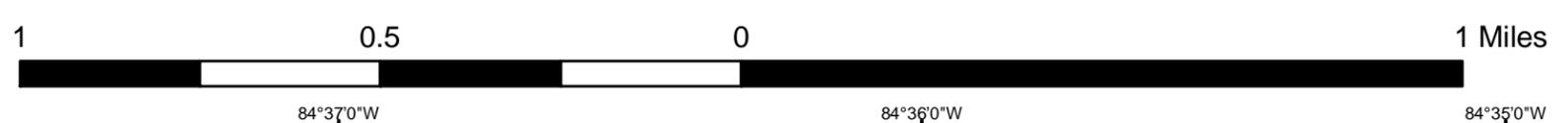


Table 1 – Total Acres by Cover Type and Age Class



	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	0	31	0	52	0	0	36	0	0	0	0	0	0	0	118
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	117	134	0	0	0	0	0	0	251
Lowland Deciduous	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Lowland Mixed Forest	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Lowland Shrub	40	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	86	0	0	0	0	0	86
Red Pine	0	0	0	0	0	28	0	0	0	0	0	0	0	0	28
Upland Mixed Forest	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Upland Shrub	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Total	60	31	0	52	0	31	158	140	86	0	0	0	0	0	558



Table 2 – Proposed Treatment Summaries

Gaylord Mgt. Unit
Year of Entry 2014

Compartment 161
Total Compartment Acres: 558.3

Acres by Treatment Type

Commercial Harvest - 63	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	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	36	0	0	0	0	0	36
Red Pine	0	0	0	0	28	0	28
Total	36	0	0	0	28	0	63

**Table 3 -- Treatments Prescribed
with No Limiting Factor**

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	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8	52161008-Cut	27.7	42110 - Planted Red Pine	High Density Pole	50	171-200	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription: Mark to restore post-harvest BA to 100 - 120 sq.ft. Concentrate marking to remove larger diameter and/or lesser quality trees.
Specs:

Other: Red pine plantation in transition from poletimber into sawtimber. Adjacent to private property. Variable quality and stocking density. Rows
Comments: meander somewhat.

Next
Steps:

Proposed
Start Date: 10/01/2013

**Total Treatment
Acreage Proposed: 27.7**

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12 52161012-Cut	35.6	4130 - Aspen	High Density Log	61	81-110	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Harvest only during winter months to protect areas of poorly drained soils, especially east portion of stand. A skid road will have to be frozen in to gain access to this area. Final harvest stand with no retention islands because stand is fairly narrow.

Other Comment: The biggest issue is access. The only road leading to this stand is privately owned. Multiple landowners own frontage on this road and would have to agree to allow logging equipment to use their road before harvest operations could begin. Stand consists of a mixed aspen sawtimber overstory, some trees showing mortality or loss of vigor, with red maple, balsam fir, paper birch, and sugar maple poletimber scattered throughout stand. A consistent dense balsam fir understory exists in most of stand, with less dense red maple and paper birch saplings present. Areas, mostly edges along swamp, show more moist soils.

Next Steps:

Proposed Start Date: 10/01/2013

Limiting Factor and No Treatment Reason 2B: Unknown if access through adjacent landowner(s) is possible

**Total Treatment
Acreage Proposed: 35.6**

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	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	117.0	67	111-140	Dense, lowland conifer swamp with scattered overmature aspen, paper birch.
3	4319 - Mixed Upland Forest	High Density Pole	3.0	52	51-80	Small poletimber stand consisting of a mix of balsam fir and quaking aspen, lying between a small grass opening and very wet tag alder.
4	6132 - Mixed Lowland Forest with Cedar	High Density Pole	5.9	77	1-50	Small lowland conifer stand with scattered mixed aspen, paper birch, and red maple. Stand is located adjacent to private property in a transitional area between upland type and tag alder swamp.
6	4130 - Aspen	High Density Sapling	30.6	16		Good quality mixed aspen regen from 1996 final harvest. Lesser amounts of mixed northern hardwood also present.
7	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	134.4	77	81-110	Mixed swamp conifer with scattered big-toothed aspen, paper birch, and red maple, on very wet soil. Tag alder and other shrubs in understory.
8	42110 - Planted Red Pine	High Density Pole	27.7	50	171-200	Red pine plantation in transition from poletimber into sawtimber. Adjacent to private property. Variable quality and stocking density. Rows meander somewhat.
9	6122 - Black Spruce	High Density Pole	86.4	80	81-110	Stand consists almost entirely of black spruce, with scattered tamarack, on very wet, poorly drained soil. Mostly tag alder and other shrubs in understory.
10	4130 - Aspen	High Density Pole	52.1	36	1-50	Mixed aspen stand in transition from saplings to small poletimber. Lesser amount of red maple and paper birch also found in stand, with an occasional sugar maple and black cherry.
12	4130 - Aspen	High Density Log	35.6	61	81-110	Stand consists of a mixed aspen sawtimber overstory, some trees showing mortality or loss of vigor, with red maple, balsam fir, paper birch, and sugar maple poletimber scattered throughout stand. A consistent dense balsam fir understory exists in most of stand, with less dense red maple and paper birch saplings present. Areas, mostly edges along swamp, show more moist soils.
13	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	4.9	64	51-80	Stand consists of a narrow strip of mixed aspen/hardwood overstory with balsam fir and cedar beneath, on poorly drained soil. Adjacent to private property and aspen stand prescribed for harvest.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	3102 - Grass	1.3	No	Unspecified	Small grass opening adjacent to private property. Difficult access.
5	6220 - Alder/willow	27.7	No	Unspecified	Tag alder and other lowland brush on very wet site.
11	3205 - Mixed Upland Shrub	17.7	No	Unspecified	Mixed upland brush (blackberry, pin cherry) and scattered encroaching northern hardwood and mixed aspen.
14	6220 - Alder/willow	12.6	No	Unspecified	Tag alder and other lowland shrubs on very wet site.
15	3105 - Mixed Upland Herbaceous	1.2	No	Unspecified	Small grass/fern opening adjacent to private road. Could be used for landing if adjacent aspen stand is harvested.



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



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
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