

# **Compartment Review Presentation**

**Gaylord Forest Management Unit** 

Compartment 57
Entry Year 2016

Acreage: 1,832
County Antrim

Management Area: Jordan Valley

Revision Date: 02/21/2014 Stand Examiner: Zach Crew

**Legal Description:** 

T30N R06W Sections 2,11, and 14

## **Identified Planning Goals:**

To provide for the protection, integrated mangement 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:

Topography ranges from flat to very steep in areas. Kalkaska-Montcalm and Kalkaska-Eastlake complexes dominate the compartment. In the lower areas surrounding some of the tributaries of the Jordan you will find a Tawas-Ensley complex. The lowland surrounding the Jordan River is a Tawas Muck.

#### Ownership Patterns, Development, and Land Use in and Around the Compartment:

Ownership throughout the compartment is contiguous. The south side of the compartment is bordered by some private residences. The NW compartment is bordered by Commercial Forest Land. The other boundaries of the compartment are bordered by additional state land.

#### **Unique Natural Features:**

The Jordan River and its tributaries are designated as a Natural River.

### **Archeological, Historical, and Cultural Features:**

No Archeological, Historical, or Cultural Features known.

#### **Special Management Designations or Considerations:**

The Jordan River flows through the compartment and it is designated as a Wild and Scenic River. The tributaries of the Jordan area designated as natural rivers as well. The Jordan Valley Pathway and North Country Trail also run through the compartment. There are two SCA's in the compartment that correspond with the areas set aside in the original Jordan Valley Management plan as potential old growth forests.

#### **Watershed and Fisheries Considerations:**

This compartment is located in the Jordan River watershed. Portions of the Jordan River, Landslide Creek, and numerous small tributaries are found within the proposed treatment area. Buffers appear to be appropriate for the proposed treatments. The appropriate BMP's and Natural Rivers buffers should be followed.

#### Wildlife Habitat Considerations:

Treatments in this compartment will maintain age class diversity in aspen while creating early successional habitat benifiting deer, grouse, and woodcock. Hardwood treatments will provide within stand structural diversity. Openings are prescribed to be maintained in this compartment benifiting deer, turkey, grouse, and woodcock.

#### Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of coarse-textured and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Devonian Ellsworth Shale. The Ellsworth is quarried for cement products elsewhere in the State. A gravel pit is located in Section 22 and the uplands appear to have good potential. Oil and gas potential in the area is primarily for the Antrim Shale gas play. This is part of the Jordan Valley Management Area and development is not allowed. None of the State land in the compartment is currently leased for oil and gas development. The north part of Sections 2 and 3 have offset wells and are being drained of hydrocarbons.

#### **Vehicle Access:**

Vehicle access along county roads is limited and is restricted to the Pinney Bridge road through the center of the compartment and Harvey Road to the south. The north part of the compartment can be accessed through some old logging roads. All access by truck is limited to the non winter months.

## **Survey Needs:**

None.

## **Recreational Facilities and Opportunities:**

The Jordan Valley Pathway and North Country Trail run through the compartment. In the winter the snowmobile trail follows Pinney Bridge Road.

#### **Fire Protection:**

This compartment does not exhibit any dangers of large scale wildlind fire complexes. However that doesn't rule out the potential for small local fires that would be difficult to access.

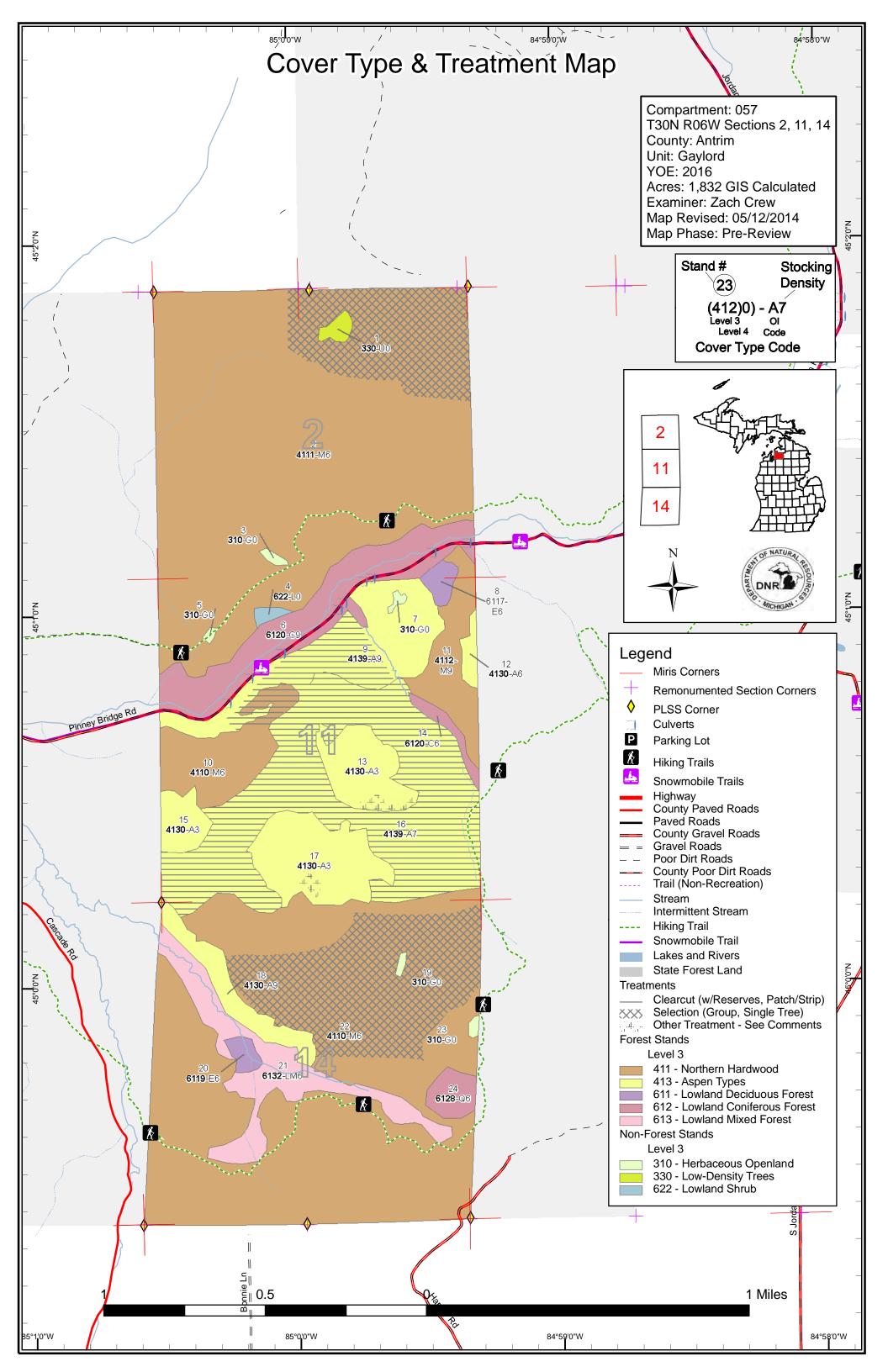
# **Additional Compartment Information:**

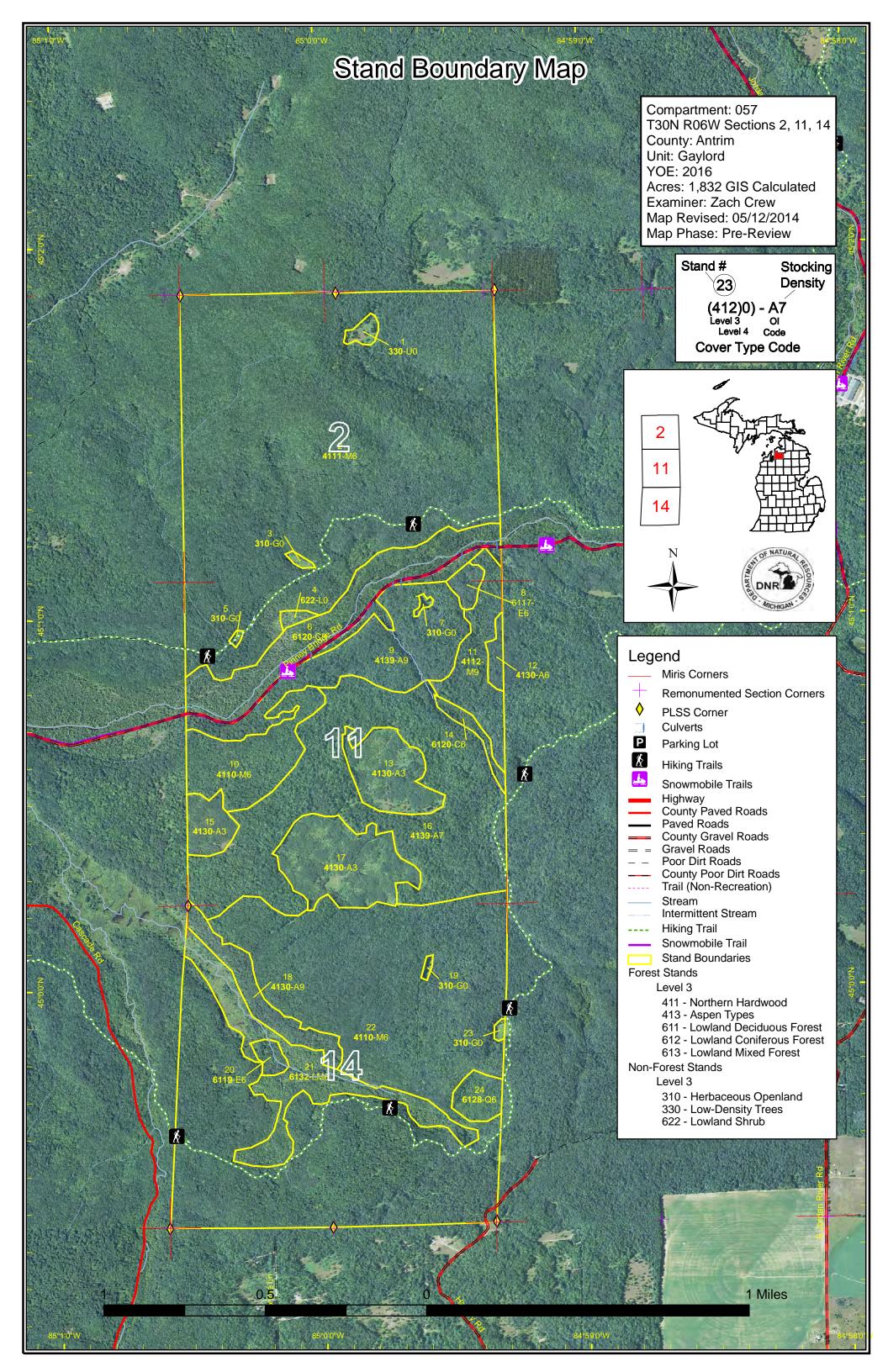
The following reports from the Inventory are attached:

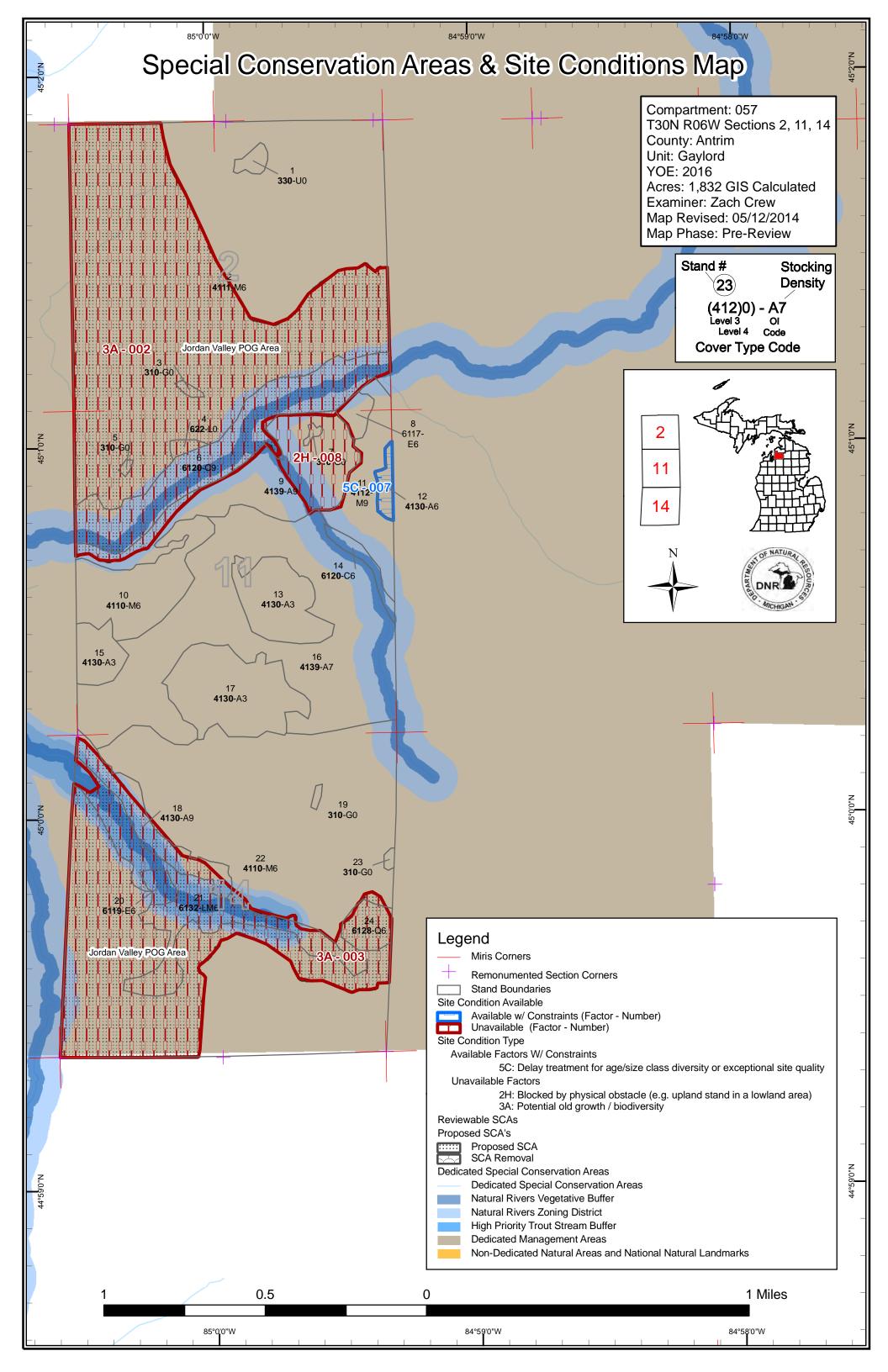
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

The following information is displayed, where pertinent, on the attached compartment maps:

Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system







**Zachary Crew: Examiner** 

Compartment 057 Year of Entry 2016



Age Class																
		0.0	\$7.0	, co.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	AD LOS	\$ 'S	80	, o'.	\$0.00 S	850	00,00	70,73	No. No.	P. P.	, 8°
Aspen	0	108	0	0	0	6	217	111	0	0	0	0	0	0	442	
Cedar	0	0	0	0	0	0	0	7	0	85	0	0	0	0	91	
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Lowland Conifers	0	0	0	0	0	0	0	0	0	12	0	0	0	0	12	
Lowland Deciduous	0	0	0	0	0	0	7	5	0	0	0	0	0	0	12	
Lowland Mixed Forest	0	0	0	0	0	0	0	0	64	0	0	0	0	0	64	
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Northern Hardwood	0	0	0	0	0	0	0	582	616	0	0	0	0	0	1199	
Total	12	108	0	0	0	6	224	705	680	97	0	0	0	0	1832	



# **Report 2 – Proposed Treatment Summaries**

# Gaylord Mgt. Unit Year of Entry 2016

Compartment 057
Total Compartment Acres: 1,832

# **Acres by Treatment Type**

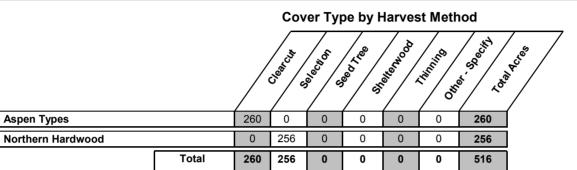
Commercial Harvest - 516

Tree Planting - 0

Other - 0

Habitat Cut - 0

Opening Maintenance - 6



# Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 057 Year of Entry 2016

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		MICHIGAN

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	52057002- Cut_small	98.8	4111 - S.Maple, Hard Mast Association	High Density Pole	87	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal

Prescription Thin stand to 80 BA. Establish regen gaps where appropriate that are at least 75 feet in diameter.

Specs

Other Not a lot of beech and ash found during inventory, no need for any salvage work. s

Comments:

<u>Next</u> Expected regen would mostly be a mix of sugar maple and basswood, with a small component of other northern hardwood specie. Regen survey.

Steps:

<u>Proposed</u>

Start Date: 10/01/2015

52057009-Cut 43.2 4139 - Aspen, High 76 81-110 Harvest Clearcut with 413 - Aspen Cmpt. Review Mixed Deciduous Reserves Proposal Density Log

Prescription Final harvest stand, focus retention along the slopes to the north and east sides of the cut.

Specs:

<u>Other</u> Expand aspen on the west into stand 10, this is shown on the treatment map

Comments:

Regen survey, expected regen is to be mainly aspen dominated with a mix of scattered northern hardwood species

<u>Next</u> Steps:

<u>Proposed</u>

Start Date: 10/01/2015

52057016-Cut 217.1 65 51-80 Harvest Clearcut 413 - Aspen Cmpt. Review 4139 - Aspen, Low Mixed Deciduous Density Log Proposal

Prescription Clearcut stand to promote aspen regen.

Specs:

Other Focus retention along the Jordan Valle Pathway in the east, and the creek to the north and east. Additional retention can be placed around any Comments:

seeps or nice pockets of hardwood in the stand.

Regen survey. expected regen would be mostly aspen, some sparse areas, and some hardwood saplings. <u>Next</u>

Steps:

Proposed

Start Date: 10/01/2015

52057022-156.8 4110 - Sugar Maple 78 81-110 Harvest Single Tree 411 - Northern Cmpt. Review 22 High Cut\_small Association Density Selection Hardwood Proposal Pole

Prescription Thin stand to 80 BA, establish regen gaps where appropriate. Regen gaps should be at least 75 ft in diameter. An turn around may need to be marked out to provide a landing for logging activity. Be sure to not run the sale boundary through the old growth area on the west side of the Specs:

Other Not a lot of beech and ash found during inventory, no need for any salvage work.

Comments:

Next Regen survey. Expected regen would be mainly a mix of sugar maple and basswood, as well as a minor component of other northern hardwood

species.

Steps: Proposed

Start Date: 10/01/2015

Compartment: 057 Gaylord Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2016 s with No Limiting Factor t а **Treatment** Acres CoverType Size Stand BA Treatment **Treatment Cover Type** Approval n Objective Density Method Status Name Range Type d Age 2.3 4130 - Aspen High 16 Non-Forest Other - Specify 310 - Herbaceous Cmpt. Review 17 052051017\_N Density Management Openland Proposal onFor Sapling Prescription Use various management tools depending upon availibility and cost to maintain the opening Other Comments: <u>Next</u> Steps: Proposed Start Date: Unspecified 52057013-Cmpt. Review 13 3.6 4130 - Aspen High 16 Non-Forest Other - Specify 310 - Herbaceous Density Management Openland Proposal NonFor Sapling Prescription Use various methods depending upon availability and cost to maintain the opening Specs:

Other\_

Comments:

Next

Steps:

Proposed

Start Date: Unspecified

**Total Treatment** 

Acreage Proposed: 521.8

Gaylord Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 057 a Limiting Factor s Year of Entry 2016 t **Treatment** Acres CoverType Size Stand ВА **Treatment Treatment Cover Type Approval** n Objective Method Status Name Density Age Range Type #Type! #Type! **Prescription** Specs: Other Comment: <u>Next</u> Steps: <u>Proposed</u> #Type! Start Date:

Total Treatment

**Limiting Factor** 

Acreage Proposed: 0.0

Zach Crew: Examiner

Compartment 057 Year of Entry 2016

Avail	Availability for Management											
Total	Acres	Acres	De	omina	nt Site	Cond	ditions					
Acres	Available	Not Available		No	5C	3A	2H					
441	375	67	Aspen	369	6	30	36					
91	8	83	Cedar	8		82	1					
12	1	12	Lowland Conifers	1		12						
12	6	6	Lowland Deciduous	6		6	0					
64	3	61	Lowland Mixed Forest	3		61						
1198	642	556	Northern Hardwood	642		556	0					
1,819	1,034	785	Total Forested Acres	1,028	6	747	38					
	57%	43%	Relative Percent									

<sup>\*</sup>Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition			
002	Not Available	3A: Potential old growth / biodiversity	475	3D: Recreational / Scenic values	1C: Other dept or div proc/practices	2F: Too steep				
	Comments: This area per the Jordan Valley Management plan is to have very minimal management activity									
003	Not Available	3A: Potential old growth / biodiversity	277	1C: Other dept or div proc/practices	3D: Recreational / Scenic values					
	Comments:  This area was part of the Jordan River Valley Management plan and such it was agreed to leave it aside with very minimal management activity.									
007	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6							
	omments:	authing in this commonter out it	aa daa	sided to hold this stand	til novt VOE vehon veg viill t	han han root this atoms in a	oniumation with atoms			
	Due to all the aspen cutting in this compartment it was decided to hold this stand until next YOE when we will then harvest this stand in conjunction with stand 18 in the adjacent compartment									

Report 5 – Site Conditions

Gaylord Mgt. Unit
Zach Crew: Examiner

Compartment 057 Year of Entry 2016

008	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	39	2E: Road needed	2F: Too steep	3D: Recreational / Scenic values	3J: Water quality / BMPs (stream, river, or lake)
С	omments:						

Compartment: 057 Year of Entry: 2016



# Report 6 - 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres			
Jordan Valley POG Area Habitat Areas or Corridors		Habitat Corridor	SCA	751.2			
Comments  Jordan River Valley. Follows original Potential Old Growth coding from original Jordan Valley Management Plan							

# Compartment: 057 Year of Entry 2016



# Report 7 - 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	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish speci 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.	es (e.g., slimy sculpin) to persist from se conditions due to substantial					
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to la streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Rip communities are ecologically and socially significant in their effects on water quality and quantity, as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversit						
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific mana rules, as governed by Part 5, Department of Natural Resources, 324.504). Section 38 of the Administrative Procedures Act (MCL the promulgation of rules. This is an active program, with one pro DNR.	of the NREPA (MCL 324.502(2) and 24.238) provides for public requests for					
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 10 and Vegetative Buffers for each Natural River see the table locat folder.	Zoning District is a 400 foot buffer for 00 feet. To view specific Zoning Districts					

S t	Gaylord Mgt. Unit			Report 8	<ul><li>Forested</li></ul>	Stands Compartment: 057 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4111 - S.Maple, Hard Mast Association	High Density Pole	577.4	87	81-110	Most of the stand falls under the old growth desigantion from the original Jordan Valley Management plan, very hilly in spots. white as dying out, evidence of bbd. Both EAB and BBD are widespread in this compartment
6	6120 - Lowland Cedar	High Density Log	84.6	98	141-170	Lowland cedar stand surrounding the Jordan River. In order to comply with the Jordan River Management plans and BMP's this stand will never be cut unless something changes in the future.
8	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	6.6	67	51-80	Lowland pople mixed with balsam fir and scattered cedar and hemlock
9	4139 - Aspen, Mixed Deciduous	High Density Log	84.2	76	81-110	Mainly aspen clones that decrease as you go away from the river
10	4110 - Sugar Maple Association	High Density Pole	50.9	75	81-110	Hardwood stand, looks to be possible access of an old logging road. evidence of BBD and EAB throughout stand and compartment
11	4112 - Maple, Beech, Cherry Association	High Density Log	38.9	80	51-80	hardwood stand, fair quality
12	4130 - Aspen	High Density Pole	5.6	59	51-80	doesnt look to be very accessible, some topography and water features.
13	4130 - Aspen	High Density Sapling	35.3	16		Clearcut in 1998 as part of Flat Iron wildlife cuts.
14	6120 - Lowland Cedar	High Density Pole	6.7	79	141-170	Lowland drainage with cedar and hemlock
15	4130 - Aspen	High Density Sapling	15.5	16		Stand clearcut in to promote aspen, regenerating nicely, scattered hardwoods mixed in among the aspen clones.
16	4139 - Aspen, Mixed Deciduous	Low Density Log	217.1	65	51-80	pockets of aspen and hardwood, very low stocking, lots of ironwood developing between pockets
17	4130 - Aspen	High Density Sapling	57.5	16		Clearcut in 1998 as part of Flat Iron Wildlife Sale. Regenerating nicely, good wildlife habitat, a few small open areas intermixed with aspen clones and hardwood regen
18	4130 - Aspen	High Density Log	26.6	78	81-110	fully stocked overmature aspen
20	6119 - Mixed Lowland Deciduous Forest	High Density Pole	5.4	71	51-80	E type, some pockets of BAM, sugar maple present on higher areas
21	6132 - Mixed Lowland Forest with Cedar	High Density Pole	64.0	82	111-140	Lowland area between to creeks that feed into the Jordan river, mixed stand that in some areas is pure cedar whereas other areas are BAM/RM/YB

s t	Gaylor	Gaylord Mgt. Unit			– Forested \$	Stands Compartment: 057 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4110 - Sugar Maple Association	High Density Pole	531.3	78	81-110	hardwood stand, SE corner thinned as part of Landslide Hardwoods in 2008? NE portion of stand thinned as part of Inspiration hardwoods in the mid to late 90s
24	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	12.3	90	171-200	Lots of seeps, water features all over

Compartment: 057 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	330 - Low-Density Trees	4.1	No	Unspecified	
3	310 - Herbaceous Openland	1.5	No	Unspecified	
4	622 - Lowland Shrub	2.6	No	Unspecified	
5	310 - Herbaceous Openland	0.8	No	Unspecified	
7	310 - Herbaceous Openland	1.1	No	Unspecified	
19	310 - Herbaceous Openland	1.0	No	Unspecified	
23	310 - Herbaceous Openland	1.2	No	Unspecified	