

Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 17
Entry Year 2016

Acreage: 1,810
County Otsego

Management Area: Grayling Ice Contact

Revision Date: 02/21/2014

Stand Examiner: Lucas Merrick

Legal Description:

T29N, R03W, Sections 6, 7, 16, 17, and 18, Otsego Lake Township, Otsego County

Identified Planning 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:

The compartment is found within a Rubicon-Lindquist association. Rubicon, Roselawn, and Wexford Loamy sands make up the majority of the compartment. Rolling terrain with steeper slopes in sections 7 and 18.

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

Horicon Co. borders this compartment on the west side. Otsego lake is adjacent to the compartment. The compartment is fragmented by high traffic paved road corridors.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

None at this time.

Watershed and Fisheries Considerations:

None at this time.

Wildlife Habitat Considerations:

Treatments in this compartment will maintain age class diversity in aspen and oak while creating early successional habitat benifiting deer, grouse, and woodcock. Clumps of mature oak will be left in these treatments for mast production for deer, wild turkey and grouse.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 800 and 1,000 feet. The Mississippian Coldwater Shale subcrops below the glacial drift. The Coldwater does not have an economic use. The nearest gravel pit is located in Section 8 one mile away and potential should be good on the uplands. The compartment has been developed for Antrim Shale gas production. The Niagaran reef trend is located in this area and there is additional potential for Niagaran reefs.

Vehicle Access:

The compartment can be accessed easily by county roads and pipeline easements.

Survey Needs:

A working corner may be needed to establish boundary lines for stand 64. Corners are in but line work would require multiple passes through the I-75 corridor. Surveyor's estimate work time at a full day to establish working corner.

Recreational Facilities and Opportunities:

Snowmobile trails #4 and #7 run through the compartment. Dispersed recreation evident thoughout.

Fire Protection:

The cover types in this compartment are not prone to frequent or extreme fire events. Topography in some portions may

prove to be equipment limiting. The major road systems serve well as fire breaks. There is a well developed oil and gas infrastructure, some pipelines contain poison gas.

Additional Compartment Information:

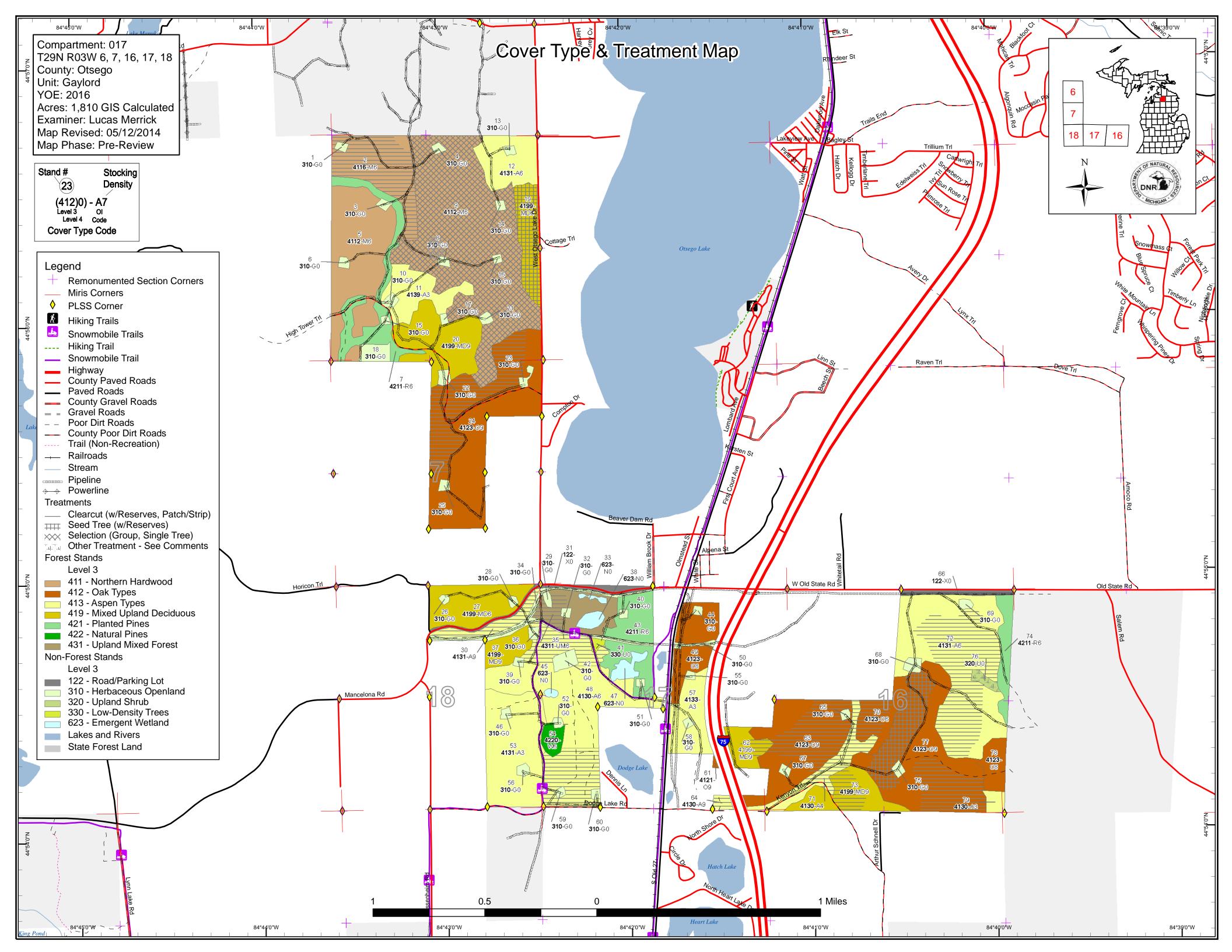
Hunting is not allowed in lands found between Old 27 S. and I-75 in this compartment by local ordinance. The compartment is currently being evaluated for possible spoil retaining areas for a proposed dredging project on Lake Otsego.

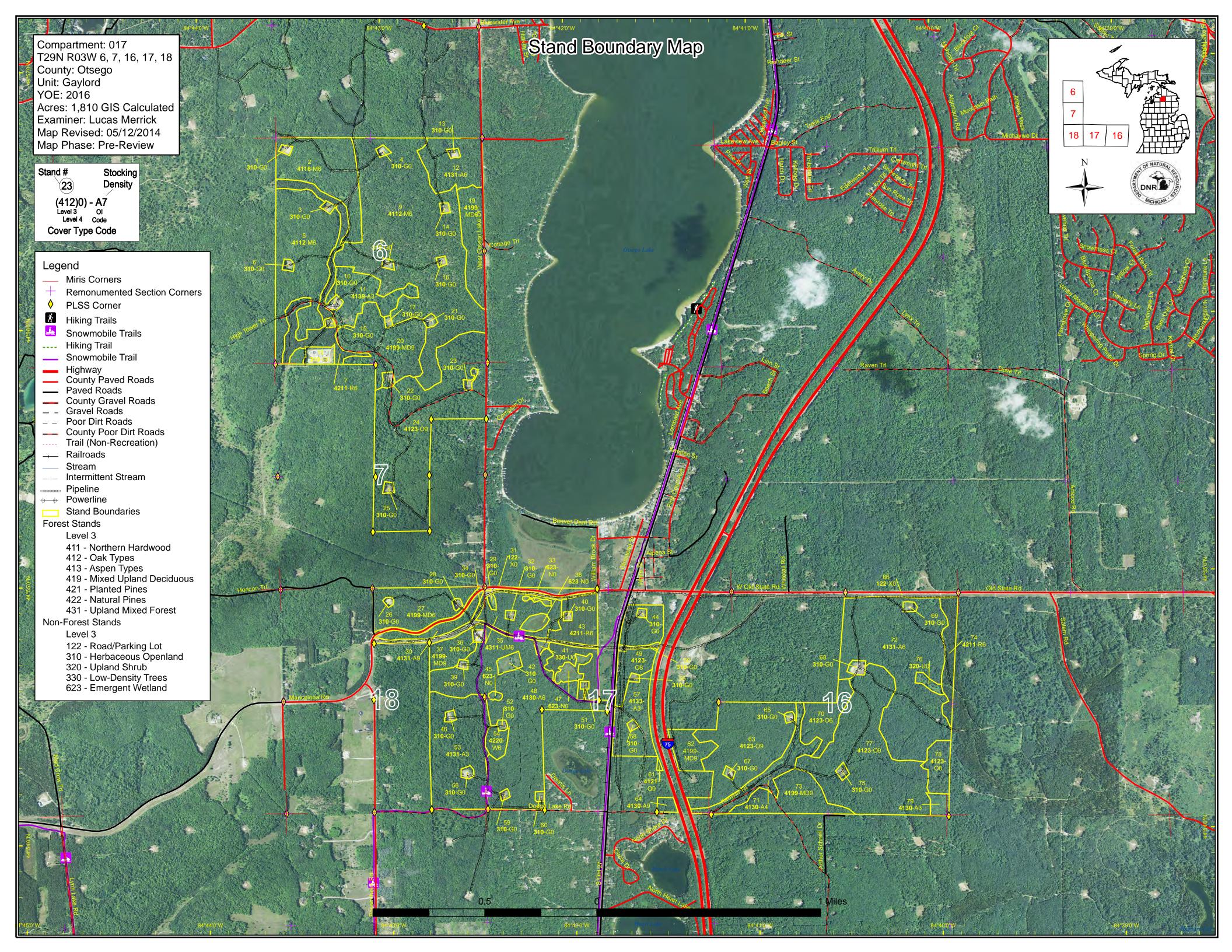
The following reports from the Inventory are attached:

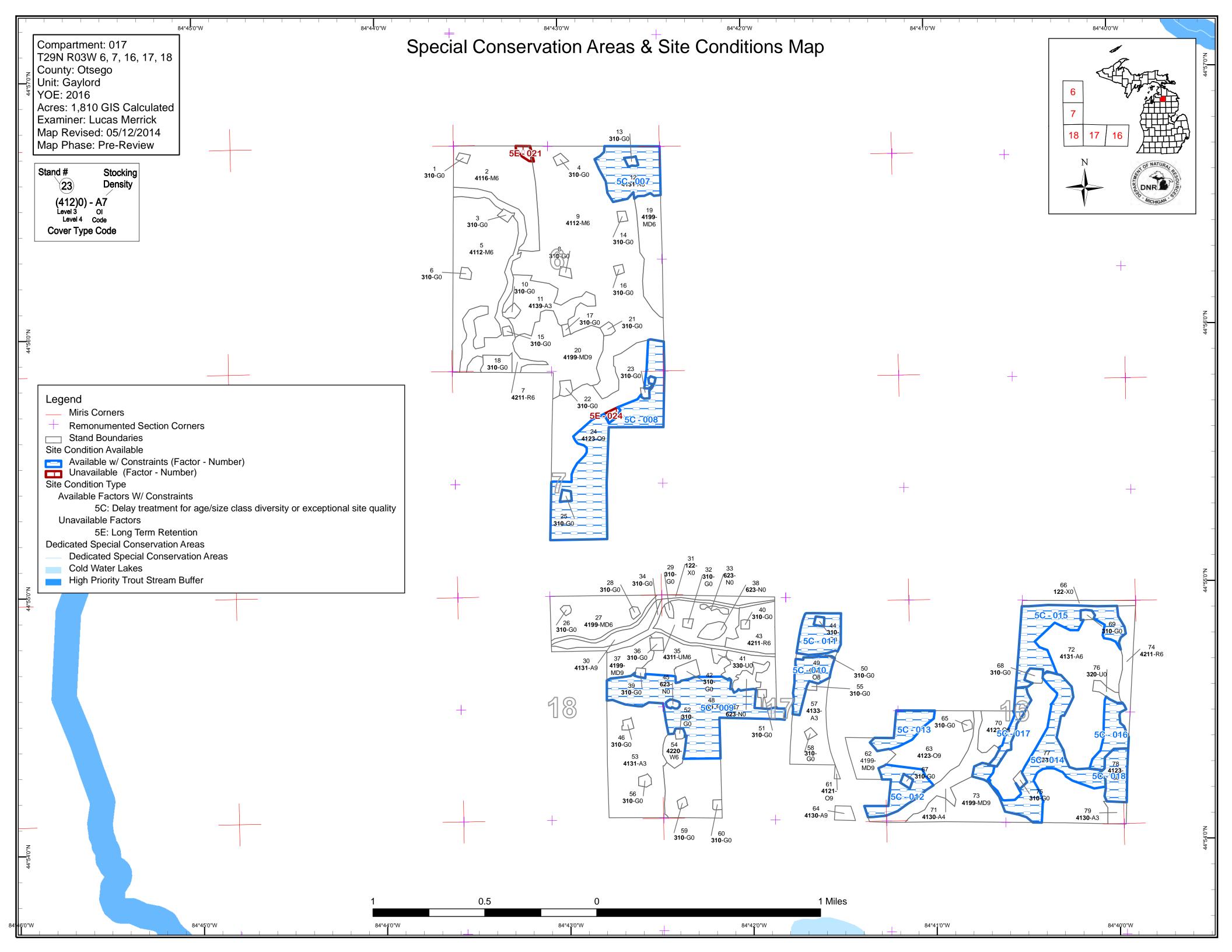
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Compartment 017 Year of Entry 2016



Lucas Merrick : Examiner

						Age	Class									
		8.9	0,0	, Sp. Co.		AD LOS	\$5.0°	8,00	10,00	80° 6	85.00	00,00	/0,70/	No X	No. No. No.	, pr
Aspen	37	33	80	0	215	151	3	0	13	0	0	0	0	0	532	
Herbaceous Openland	80	0	0	0	0	0	0	0	0	0	0	0	0	0	80	
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Marsh	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14	
Mixed Upland Deciduous	0	0	0	0	16	0	0	0	56	31	96	0	0	0	200	
Northern Hardwood	0	0	0	0	60	0	0	95	228	0	0	0	0	0	382	
Oak	0	0	0	0	0	0	0	0	0	308	133	0	0	0	441	
Red Pine	0	0	0	0	0	99	0	0	0	0	0	0	0	0	99	
Upland Mixed Forest	0	0	0	0	0	29	0	0	0	0	0	0	0	0	29	
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Urban	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20	
White Pine	0	0	0	0	0	0	0	8	0	0	0	0	0	0	8	
Total	157	33	80	0	290	279	3	102	297	340	229	0	0	0	1810	



Report 2 – Proposed Treatment Summaries

Gaylord Mgt. Unit Year of Entry 2016

Compartment 017
Total Compartment Acres: 1,810

Acres by Treatment Type

Commercial Harvest - 733 Tree

Tree Planting - 0

Other - 0

Habitat Cut - 0

Opening Maintenance - 4

			Cov	er Ty	oe by H	larves	st Meth	nod	
			Clare of	Social of	1,00 S	oo de la composição de	Children O. S.		Se de la companya de
Aspen Types		188	0	0	0	0	0	188	
Mixed Upland Deciduous		20	0	31	0	0	0	51	
Northern Hardwood		57	228	0	0	0	0	285	
Oak Types		160	0	39	0	0	0	199	
Upland Mixed Forest	<u>'</u>	9	0	0	0	0	0	9	
	Total	434	228	70	0	0	0	733	

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 017 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	52017002-Cut	57.0	4116 - Mixed N. Hardwood - Aspen	High Density Pole	40	81-110	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Final harvest all trees 2" and up. Leave minimum retention (3%) in islands. Mark to leave a handfull of oak and large diameter beech for mast Specs: and possible den trees.

Other Treatment boundary designed to minimize conflicts with treatment area in compartment to the north. A retention island is already designated in Comments: the site conditions group.

Monitor regen. A stand dominated by aspen with misc northern hardwood species that meets minimum stocking is desired. If regen fails Next

address issue with stake holders and applicable divisions. Steps:

<u>Proposed</u>

Start Date: 10/01/2015

9 52017009B-227.8 4112 - Maple, High 80 51-80 Harvest **Group Selection** 4119 - Mixed Cmpt. Review Beech, Cherry Northern Hardwoods Density Proposal Cut Association

Prescription Designate beech for removal from stand. Mark to leave clumps of beech (minimum of 1 clump of beech per 5 acres) Target large crown mast producing trees and those that are showing some resistance. Specs:

<u>Other</u>

Comments:

Plant large stock oak in understory (Wildlife ftp-Notify biologist to initiate ftp) Next

Steps:

Proposed

10/01/2015 Start Date:

52017019-Cut 31.4 4199 - Other Mixed High 92 81-110 Harvest Seed Tree 4199 - Other Mixed 19 Cmpt. Review **Upland Deciduous** Density **Upland Deciduous** Proposal Pole

Prescription Leave 10 BA of species throughout stand. Focus on healthy oak, birch, and a few large diameter beech. There are a few pockets with white

Specs: pine and hemlock- line these areas out and protect from harvest operations (retention).

Other Hilly. Operations will most likely have to access from the west.

Comments:

Monitor regen. A mixed stand with oak, maple, birch, and mixed conifer at minimum stocking is acceptable. If regen fails address issue with **Next** Steps:

stake holders and applicable divisions.

Proposed

10/01/2015 Start Date:

52017024-62.9 4123 - Red Oak High 93 51-80 Clearcut with 4199 - Other Mixed Cmpt. Review 24 Harvest Density Log Reserves **Upland Deciduous** Cut small Proposal

Prescription Final harvest all trees 2" and up. Do not protect understory during operations. Remove as much of it as possible with sale operations. Leave

minimal island retention (3%). Mark scattered oak clumps (2 - 5 trees) to leave. 1 clump for every 1 - 2 acres. Specs:

Other Lots of topo. Retention identified using site conditions and is found south of pipeline. Maximize scarfification potential - whole tree operations Comments: and snow off conditions.

Monitor regen. A mixed stand with oak as one of the dominant cover type also containing red maple, aspen, birch and sugar maple at minimum Next Steps:

acceptable stocking levels is desired. If regen fails address issue with stake holders and applicable divisions.

Proposed

Start Date: 10/01/2015

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 017
Year of Entry 2016

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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
30	52017030- Cut_small	11.9	4131 - Aspen, Oak	High Density Log	83	81-110	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal

Prescription Final harvest all trees 2" and up. Leave the areas that are equipment limiting (hills) as retention.

Specs:

Other Harvest with adjacent stands. Majority of stand is workable in snow off conditions.

Comments:

Monitor regen. An aspen stand with oak and red maple as associated species which meets minimum stocking is acceptable. If natural regen

fails address with stake holders and applicable divisions.

Steps: Proposed

Next

Start Date: 10/01/2015

35 52017035_sm 9.0 4311 - Pine, Aspen High 53 Harvest Clearcut with 413 - Aspen Cmpt. Review Reserves Proposal Pole

Prescription Final Harvest all trees 2" and up. Leave minimum retention (3%) in islands. Harvest with adjacent aspen stand. Do not leave conifers.

Specs:

Other Treatment boundary designed fo aesthetics along county road. Avoid conifer in retention areas. Sign snowmobile trail, minimize user conlflicts

Comments: during operations.

Next Monitor regen. A stand dominated by aspen with components of red maple and white pine that meets minimum stocking is acceptable. If regen

Steps: fails address issue with stake holders and applicable divisions.

<u>Proposed</u>

Start Date: 10/01/2015

4852017048-
Cut_small39.24130 - AspenHigh
Density53HarvestClearcut with
Reserves413 - AspenCmpt. Review
Proposal

Pole

Prescription Final harvest all trees 2" and up. Leave minimum retention (3%) in scattered islands.

Specs:

Other Purpose of harvest is to help break up the aspen age class within the compartment. Sign snowmobile trail, minimize user conlflicts during

Comments: operations.

Next Monitor regen. A stand dominated by aspen with components of red maple, oak, birch, and conifer that meets minimum stocking is acceptable.

Steps: If regen fails address issue with stake holders and applicable divisions.

Proposed

Start Date: 10/01/2015

48 52017048- 25.0 4130 - Aspen High 53 Harvest Clearcut with 413 - Aspen Cmpt. Review Cut_small_1 Density Reserves Proposal

Prescription Final harvest all trees 2" and up. Leave minimum retention (3%) in scattered islands.

Specs:

Other Purpose of harvest is to help break up the aspen age class within the compartment. Sign snowmobile trail, minimize user conlflicts during

Comments: operations.

Next Monitor regen. A stand dominated by aspen with components of red maple, oak, birch, and conifer that meets minimum stocking is acceptable.

If regen fails address issue with stake holders and applicable divisions.

Steps: Proposed

Start Date: 10/01/2015

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 017 Year of Entry 2016

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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
62	52017062- Cut_small	5.9	4199 - Other Mixed Upland Deciduous	High Density Log	100	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Final harvest without retention to maximize aspen regeneration (only small portion of stand will be treated). Cut all trees 2" and up...

Specs:

S

Other A couple great looking mature aspen clones are what you are chasing.

Comments:

Monitor regen. A stand dominated by aspen with other mixed deciduous at minimal stocking is acceptable. If regen fails address issue with

stake holders and applicable divisions.

Steps: Proposed

Next

10/01/2015 Start Date:

63 52017063-Cut 45.6 4123 - Red Oak High 100 81-110 Harvest Clearcut with 412 - Oak Cmpt. Review Density Log Reserves Proposal

Prescription Final harvest all trees 2" and up. Leave retention in islands (3-6%) and mark to leave scattered clumps of 2-5 oak (approx. 1 clump for every 1-2 Specs:

acres). Do not cut conifer. Some large diameter red pine and white pine in area.

Other This stand has some hills. If some areas seem like they may be to steep for operations put retention in these locations. Try to incorporate some of the younger age class\smaller diameter oak within retention islands. Comments:

Next Monitor regen. An oak stand with red maple, aspen, birch, and pine expected

Steps:

Proposed 10/01/2015 Start Date:

52017064-Cut 3.4 4130 - Aspen High Harvest Clearcut with 413 - Aspen Cmpt. Review Reserves Proposal **Density Log**

Prescription Final harvest all trees 2" and up. Leave a small island for retention and mark a couple healthy oak to leave.

Specs:

Other Hunting is not allowed in this area per local ordinance.

Comments:

Monitor regen. A stand dominated by aspen with components of oak, red maple, and mixed pine that meets minimum stocking is acceptable.

Next Steps:

Proposed 10/01/2015 Start Date:

412 - Oak 70 52017070-Cut 13.9 4123 - Red Oak High 91 111-140 Harvest Clearcut with Cmpt. Review Density Reserves Proposal

Pole

Prescription Final harvest all trees 2" and up except conifer. Do not cut conifer. Leave minimum retention (3%) in islands. Mark to leave scattered oak

Specs: clumps(2-5 trees) throughout sale area (1 clump for every 1-2 acres). Survey shows that center of section has been established.

Other Comments:

Monitor regen. A stand dominated by oak and red maple that meets minimum stocking is acceptable. If regen fails address issue with stake <u>Next</u>

Steps: holders and applicable divisions.

<u>Proposed</u>

Start Date: 10/01/2015

52017071-Cut 19.3 4130 - Aspen Low 47 Harvest Clearcut with 4133 - Aspen, Cmpt. Review Density Reserves Mixed Pine Proposal

Pole

Prescription Final harvest all species 2" and up except for conifer. Do not cut conifer. Also leave some larger diameter cherry for mast. There are a few

Specs: immature oak stems, mark a few of these to leave for a furture mast source.

Other Protect wildlife shrubs (hawthorne, serviceberry, etc).

Comments:

Next Monitor regen. A sparsley stocked (patchy) aspen stand with a patchy overstory of large diameter conifer is acceptable regen. If regen fails

address issue with stake holders and applicable divisions.

Steps: Proposed

10/01/2015 Start Date:

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 017 Year of Entry 2016

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
72	52017072-Cut	89.5	4131 - Aspen, Oak	High Density Pole	47	81-110	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal

Prescription Final harvest all tree 2" and up. Leave minimum (3%) in retention islands. Try to maximize mast sources within island areas. Leave one clump Specs:

of 2-5 oaks for every one - two acres. Target large crown/healthy looking trees.

Other Comments:

S

Monitor regen. An aspen oak type with red maple and other misc hrdwd species at minimal acceptable stocking is adequate. If regen fails Next

address issue with stake holders and applicable divisions. Steps:

<u>Proposed</u>

Start Date: 10/01/2015

52017073-Cut 14.0 4199 - Other Mixed High 101 81-110 Harvest Clearcut 4199 - Other Mixed Cmpt. Review **Upland Deciduous** Proposal Upland Deciduous Density Log

Prescription Final harvest all species 2" and up except for conifer and a couple oak clumps. Only a small portion of stand is being treated, no other retention

other than the conifer and 1 oak clumps(2-5 trees) per 1-2 acres will be left in order to maximize regeneration potential. Specs:

<u>Other</u> Comments:

<u>Next</u> Monitor regen. A mixed deciduous or oak type that meets minimum stocking is acceptable. If regen fails address issue with stake holders and

Steps: applicable divisions.

<u>Proposed</u>

Start Date: 10/01/2015

37.7 4123 - Red Oak 51-80 Harvest Clearcut with 4199 - Other Mixed 52017077 sm High Cmpt. Review all-Cut Density Log **Upland Deciduous** Reserves Proposal

Prescription Final harvest all trees 2" and up. Leave minimum (3%) retention in islands. Leave a clump of 2 -5 oak for every one - two acres within harvest

Specs:

Other Avoid aspen within retention areas.

Comments:

Monitor regeneration. A naturally regenerating stand with oak as a major component, mixed with red maple, aspen, and birch at minimum <u>Next</u> acceptable stocking levels is adequate. If stand types out to be a red oak stand with 60% or more of canopy this is fine also. If regen fails Steps:

address issue with stake holders and applicable divisions.

Proposed

10/01/2015 Start Date:

High 77 52017077-39.0 4123 - Red Oak 90 51-80 Harvest Seed Tree 4199 - Other Mixed Cmpt. Review **Density Log Upland Deciduous** Proposal Cut small

Prescription Mark to leave 10BA of species as a seed source. Leave all pine trees. Remove all other trees 2" and up.

Specs:

Other Leave trees should be large diameter mast producers.

Comments:

<u>Next</u> Monitor regen. Oak should be a major cover type component associated with red maple, aspen, birch and minimal mixed conifer. If regen fails

address issue with stake holders and applicable divisions. Steps:

Proposed

Start Date: 10/01/2015

NF 52017076-3204 - Mast 76 3.6 3204 - Mast Non-Forest Other - Specify Cmpt. Review Producing Shrub Management Producing Shrub Proposal

Prescription Plant mast producing shrubs and/or trees.

Specs:

<u>Other</u> Wildlife ftp

Comments:

<u>Next</u> Monitor success

Steps:

Proposed

Start Date: Unspecified

CoverType

Size

Density

Stand

Age

Report 3 -- Treatments Prescribed with No Limiting Factor

Treatment

Type

ВА

Range

Compartment: 017 Year of Entry 2016

Treatment

Method

Cover Type Objective Name Total Treatment

Treatment

S t

n

Acreage Proposed:

736.2

Acres

Gaylord Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 017 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: **Next** Steps: <u>Proposed</u> #Type! Start Date:

Total Treatment

Limiting Factor

Acreage Proposed: 0.0

Lucas Merrick: Examiner

Compartment 017
Year of Entry 2016

Availability for Management

Total	Acres	Acres		Domina	nt Site	Cond	ditions
Acres	Available	Not Available		No	5C	2F	
532	525	7	Aspen	332	193	7	
199	199		Mixed Upland Deciduous	199			
382	382		Northern Hardwood	382			
441	441		Oak	172	269		
99	99		Red Pine	99			
29	29		Upland Mixed Forest	29			
8	8		White Pine	8			
1,690	1,683	7	Total Forested Acres	1,221	462	7	
	100%	0%	Relative Percent				-

^{*}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 ond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
007	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	36	No Limiting Factor			
	mments: rvest would be a	djacent to two different regene	ration cu	ts. Hold 10 years.			
800	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	92				
	mments: rth portion of star	nd will be treated this YOE. Ev	/aluate re	esults and prescribe acco	rdingly in 10 yrs.		
009	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	87				
	mments: If of stand will be	treated this YOE in an attemp	t to diver	rsify age class in the comp	o.		

Report 5 – Site Conditions

Gaylord Mgt. Unit

Lucas Merrick: Examiner

Compartment 017
Year of Entry 2016

010	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	
	mments: tain stand for m	nast		
011	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	
	mments: tain for mast			
012	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	
	mments: aluate adjacent	treatments for future prescription	ns	
013	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	
	mments: aluate adjacent	treatments for future prescription	ns	
014	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	52	
	mments: aluate adjacent	treatments for future prescription	ns	
015	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	45	
	mments: ld for 10 until n	ext YOE for size class diversity		

Report 5 – Site Conditions

Gaylord Mgt. Unit
Lucas Merrick: Examiner

Compartment 017
Year of Entry 2016

016	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16
	omments: old for 10yrs for a	ge/size class diversity	
017	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10
	omments: valuate adjacent t	reatments for future prescription	าร
018	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15
	omments: valuate in 10 year	s	
021	Not Available	5E: Long Term Retention	2
	omments: etention for stand	2	
024	Not Available	5E: Long Term Retention	2
	omments: his is retention for	the cut in the portions north of	the stand 2016 YOE

Gaylord Mgt. Unit Compartment: 017

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
Comments				

Gaylord Mgt. Unit Compartment: 017





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 Ty Area	pe Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA Archaed Si	te sites of cultural and historical significance bottomlands. They include thousands of N and British outposts, nineteenth century lot the Great Lakes, there are shipwrecks and be identified by Natural heritage data from	that contains physical remains of human occupation. These are that may occur upon terrestrial areas and Great Lakes lative American settlements and burial sites, as well as French organing camps, mines and homesteads. Beneath the waters of dother remains documenting the maritime trade. Such sites may a the State Historic Preservation Office. Proposed treatments in such a manner as to maintain the integrity of these sites. Due to a further detail about location is available.

S t	Gaylord	Gaylord Mgt. Unit		Report 8	Forested	Stands Compartment: 017 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4116 - Mixed N. Hardwood - Aspen	High Density Pole	59.7	40	81-110	An aspen/hardwood stand.
5	4112 - Maple, Beech, Cherry Association	High Density Pole	94.7	77	81-110	A northern hardwood stand that is heavy to beech.
7	42110 - Planted Red Pine	High Density Pole	39.0	52	141-170	A recently thinned red pine stand.
9	4112 - Maple, Beech, Cherry Association	High Density Pole	227.8	80	51-80	A recently thinned northern hardwood stand.
11	4139 - Aspen, Mixed Deciduous	High Density Sapling	32.7	17		A regenerating aspen stand. 10-25' tall
12	4131 - Aspen, Oak	High Density Pole	36.0	48	81-110	Aspen stand with an oak component. Nice white pine understory along county road.
19	4199 - Other Mixed Upland Deciduous	High Density Pole	31.4	92	81-110	A mixed stand along West Otsego Lk Drive. Some hills. Access off of W. Otsego would be difficult at best.
20	4199 - Other Mixed Upland Deciduous	High Density Log	56.0	81	51-80	A northern hardwood stand with a heavy oak component.
24	4123 - Red Oak	High Density Log	155.9	93	51-80	A red oak stand that was species thinned during last treatment.
27	4199 - Other Mixed Upland Deciduous	High Density Pole	43.1	105	81-110	A mixed stand along a county road.
30	4131 - Aspen, Oak	High Density Log	12.8	83	81-110	An oak/aspen stand on the side of a hill.
35	4311 - Pine, Aspen Mix	High Density Pole	29.0	53		Aspen and pine
37	4199 - Other Mixed Upland Deciduous	High Density Log	15.8	45	81-110	A mixed aspen, oak, hardwood stand.
43	42110 - Planted Red Pine	High Density Pole	41.8	56	141-170	A red pine plantation that has been recently thinned.
48	4130 - Aspen	High Density Pole	150.9	53		An aspen stand that has regenerated from a previous final harvest.
49	4123 - Red Oak	Medium Density Log	35.3	101	1-50	An oak stand with a fully stocked understory. Hunting not allowed in these stands by local ordinance. Extensive coyote activity.
53	4131 - Aspen, Oak	High Density Sapling	80.2	24	1-50	A regenerating aspen stand.
54	42200 - Natural White Pine	High Density Pole	7.5	70	111-140	A natural white pine stand.

s t	Gaylor	d Mgt. Unit		Report 8	– Forested	Stands Compartment: 017 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	4133 - Aspen, Mixed Pine	High Density Sapling	32.0	5		A regenerating aspen stand with a oak and pine overstory component.
61	4121 - Oak, Aspen	High Density Log	0.6	100		A small isolated parcel.
62	4199 - Other Mixed Upland Deciduous	High Density Log	16.8	100	81-110	A mature oak, aspen, red maple stand. An excellent white pine understory.
63	4123 - Red Oak	High Density Log	81.9	100	81-110	A mature oak stand.
64	4130 - Aspen	High Density Log	3.4	61		A mature aspen stand. Small in size and isolated from other tracts of state property.
70	4123 - Red Oak	High Density Pole	23.7	91	111-140	A red oak stand with a red maple component.
71	4130 - Aspen	Low Density Pole	28.3	47		A pipeline/valley filling in with trees. Patchy.
72	4131 - Aspen, Oak	High Density Pole	150.2	47	81-110	An oak aspen stand. Soft rolling hills.
73	4199 - Other Mixed Upland Deciduous	High Density Log	36.4	101	81-110	An oak and red maple stand.
74	42110 - Planted Red Pine	High Density Pole	17.9	56	111-140	A recently thinned red pine stand. Treat with adjacent compartment in the future when warranted.
77	4123 - Red Oak	High Density Log	128.9	90	51-80	A large diameter oak and red maple stand.
78	4123 - Red Oak	Medium Density Log	15.0	101	51-80	Recently treated oak stand.

5

5.4

4130 - Aspen

79

High Density Sapling

A regenerating aspen stand.

Compartment: 017 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	3104 - Degraded	1.2	Unspecified	Unspecified	Well site
3	3104 - Degraded	1.5	Unspecified	Unspecified	Well site
4	3104 - Degraded	1.3	Unspecified	Unspecified	Well site.
6	3104 - Degraded	1.5	Unspecified	Unspecified	Well site
8	3104 - Degraded	1.4	Unspecified	Unspecified	Well site
10	3104 - Degraded	2.1	Unspecified	Unspecified	A gas CPF
13	3104 - Degraded	1.2	Unspecified	Unspecified	Well site. Poison gas.
14	3104 - Degraded	1.2	Unspecified	Unspecified	Well site.
15	3104 - Degraded	1.0	Unspecified	Unspecified	Well site.
16	3104 - Degraded	1.0	Unspecified	Unspecified	Well site
17	3104 - Degraded	1.0	Unspecified	Unspecified	Well site.
18	3104 - Degraded	6.5	Unspecified	Unspecified	A large CPF
21	3104 - Degraded	1.7	Unspecified	Unspecified	Well site
22	3104 - Degraded	2.2	Unspecified	Unspecified	Well site.
23	3104 - Degraded	1.7	Unspecified	Unspecified	Well site, northern portion is an old gravel pit with illegal dumping of yard waste and household materials.
25	3104 - Degraded	1.4	Unspecified	Unspecified	Well site.
26	3104 - Degraded	1.0	Unspecified	Unspecified	Well site
28	3104 - Degraded	1.1	Unspecified	Unspecified	Well site

Compartment: 017 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
29	3103 - Rubus-Fern	1.3	Unspecified	Unspecified	Small opening.
31	122 - Road/Parking Lot	12.8	Unspecified	Unspecified	Mancelona Rd.
32	3104 - Degraded	1.1	Unspecified	Unspecified	Well site.
33	6239 - Mixed Emergent Wetland	1.4	Unspecified	Unspecified	Small holes with seasonal water.
34	3104 - Degraded	17.0	Unspecified	Unspecified	Pipelines and associated easements.
36	3104 - Degraded	2.1	Unspecified	Unspecified	Processing facility
38	6239 - Mixed Emergent Wetland	4.5	Unspecified	Unspecified	A wet pocket filling in with trees
39	3104 - Degraded	1.2	Unspecified	Unspecified	Well site.
40	3104 - Degraded	1.0	Unspecified	Unspecified	Well site.
41	330 - Low-Density Trees	1.9	Unspecified	Unspecified	An old opening associated with a railroad grade.
42	3104 - Degraded	4.8	Unspecified	Unspecified	Old landfill site for Otsego Lk Township.
44	3104 - Degraded	1.1	Unspecified	Unspecified	Well site
45	6239 - Mixed Emergent Wetland	1.2	Unspecified	Unspecified	Seasonally wet low lying area.
46	3104 - Degraded	1.3	Unspecified	Unspecified	Well site
47	6239 - Mixed Emergent Wetland	6.8	Unspecified	Unspecified	A opening filling in with seedlings.
50	3104 - Degraded	1.9	Unspecified	Unspecified	Pipeline
51	3104 - Degraded	1.1	Unspecified	Unspecified	Well site.
52	3104 - Degraded	1.2	Unspecified	Unspecified	Well site.

Compartment: 017 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
55	3104 - Degraded	1.0	Unspecified	Unspecified	Well site
56	3104 - Degraded	1.7	Unspecified	Unspecified	Well site.
58	3104 - Degraded	1.1	Unspecified	Unspecified	Well site
59	3104 - Degraded	1.0	Unspecified	Unspecified	Well site.
60	3104 - Degraded	1.1	Unspecified	Unspecified	Well site.
65	3104 - Degraded	1.2	Unspecified	Unspecified	Well site
66	122 - Road/Parking Lot	7.5	Unspecified	Unspecified	
67	3104 - Degraded	1.3	Unspecified	Unspecified	Well site
68	3104 - Degraded	2.9	Unspecified	Unspecified	Well site
69	3104 - Degraded	1.6	Unspecified	Unspecified	Well site
75	3104 - Degraded	1.7	Unspecified	Unspecified	Well site
76	3204 - Mast Producing Shrub	3.6	Unspecified	Unspecified	A small opening filling in with seedlings and shrubs.