DNR MICHIGAN

Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52178
Entry Year 2019
Acreage: 1,147

Management Area: Cheboygan Lake Plain

County Cheboygan

Management Area. Cheboygan Lake Flam

Revision Date: 2017-04-13

Stand Examiner: Shannon Harig

Legal Description: T36N R2W Sec. 35,36

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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:

Soils are mostly Rubicon-Eastlake Association.

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

State ownership is contiguous. The surrounding land is lightly developed.

Unique Natural Features:

None known

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

No fisheries concerns

Wildlife Habitat Considerations:

Featured species within this compartment include deer, grouse, and turkey. Much of the compartment consists of younger forest types, however there are opportunities to improve some age class diversity and therefore wildlife habitat, especially in stand 35 (aspen). Stand 8 is an open area that will be maintained and has some shrub species that were planted in the late 1980's.

Mineral Resource and Development Concerns and/or Restrictions

This area has been leased for oil and gas exploration in the recent past as part of the Collingwood lease play. While the Collingwood has produced some hydrocarbons elsewhere, the formation has not proven to be an economically viable resource play to date. Interest in the formation has waned and all leases in the area have expired. The nearest active oil and gas production is many miles from the compartment. Surface sediments consist mostly of lacustrine clay with minor amounts of sand and gravel. There may be more significant amounts of gravel in the SE 1/4 of Section 36.

Vehicle Access:

Very good access.

Survey Needs:

None

Recreational Facilities and Opportunities:

No developed recreational facilities exist in this compartment.

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

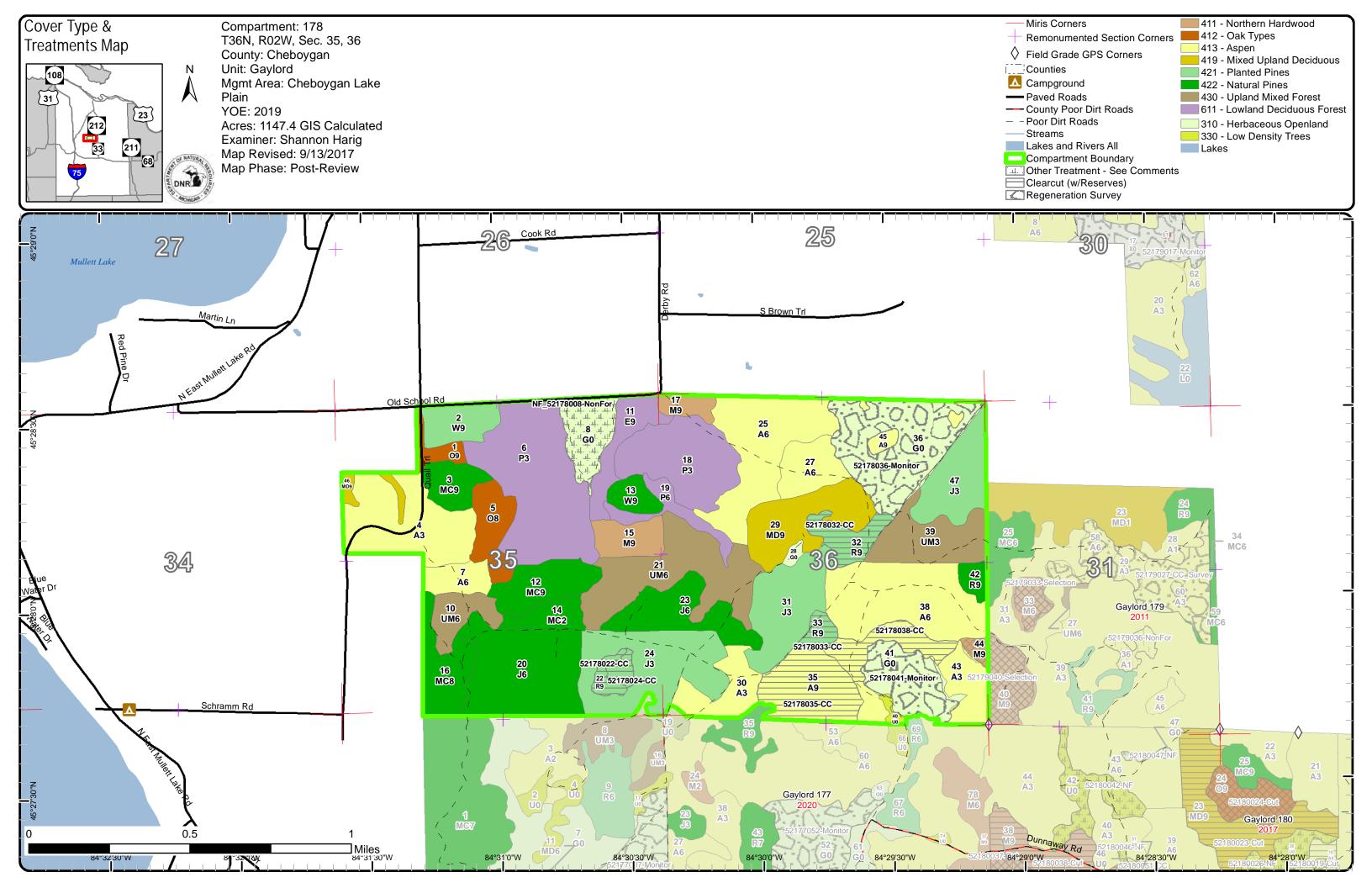
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas

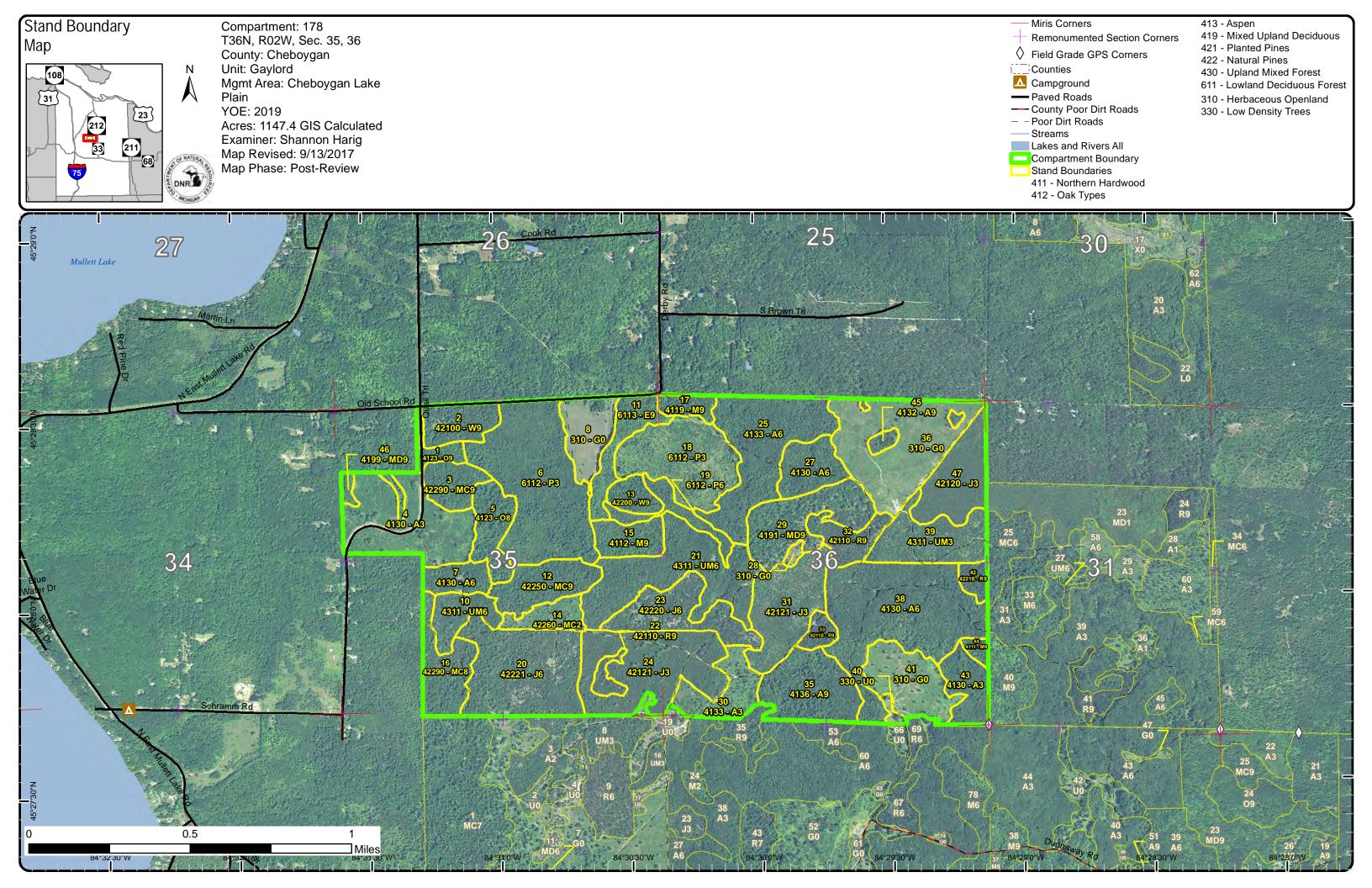
The following information is displayed, where pertinent, on the attached compartment maps:

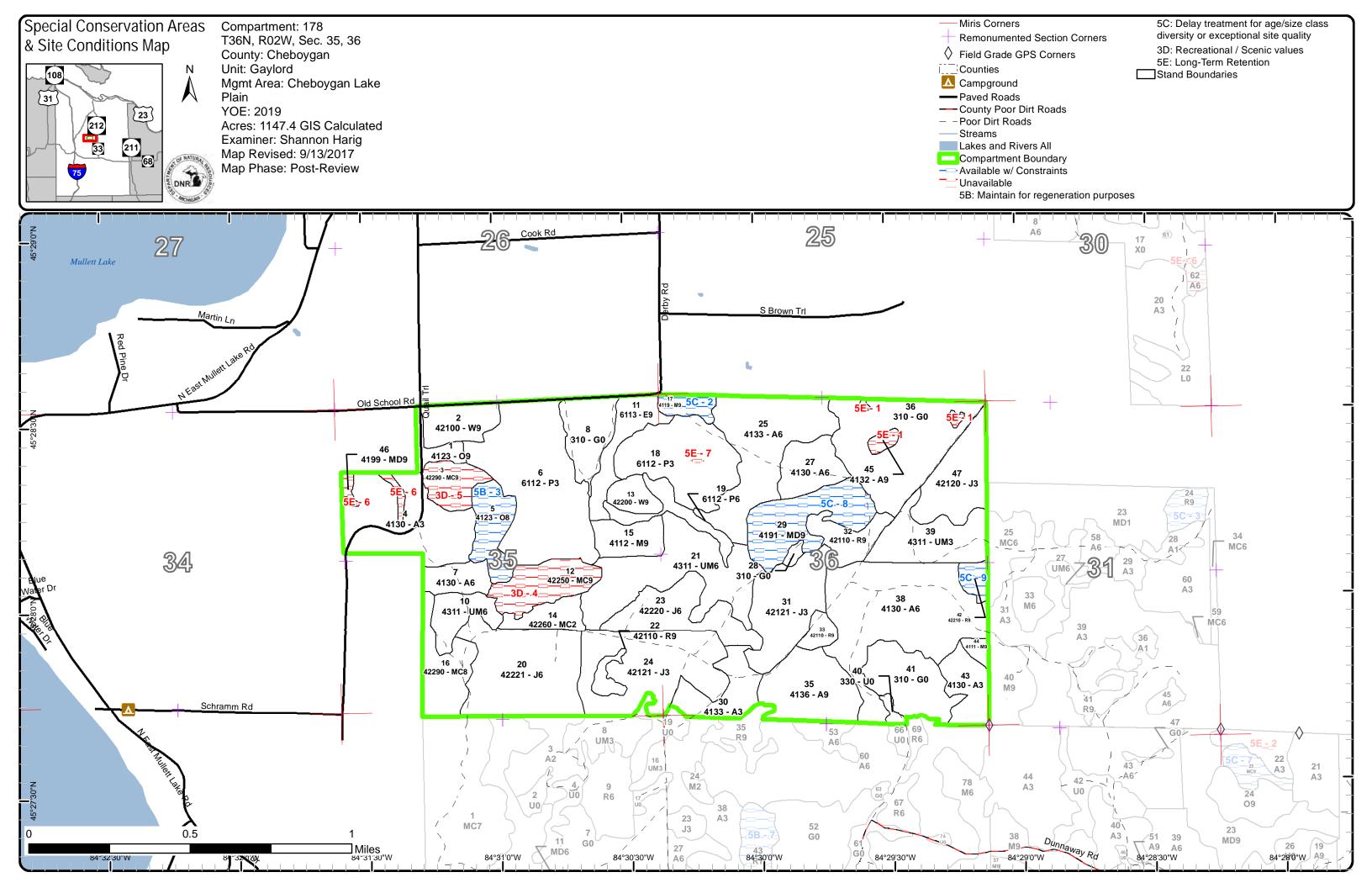
Base feature information, stand boundaries, cover types, and numbers Proposed treatments

Proposed treatments
Site condition boundaries
Details on the road access system

Site Condition Details







Compartment 178 Year of Entry 2019

Gaylord Mgt. Unit **Shannon Harig: Examiner**



Age Class

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Aspen	0	75	18	0	176	0	36	5	0	0	0	0	0	0	0	0	0	0	309
Herbaceous Openland	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116
Jack Pine	0	0	70	60	62	32	0	0	0	0	0	0	0	0	0	0	0	0	224
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	48	83	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	144
Lowland Deciduous	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	18
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	42
Natural Mixed Pines	0	12	0	0	0	0	24	0	0	0	0	15	0	24	0	0	0	0	75
Northern Hardwood	0	0	0	0	0	0	0	0	15	8	3	0	0	0	0	0	0	0	26
Oak	0	0	0	0	0	0	0	0	7	0	20	0	0	0	0	0	0	0	27
Red Pine	0	0	0	0	0	0	26	0	0	0	0	6	0	0	0	0	0	0	32
Upland Mixed Forest	0	0	32	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	106
White Pine	0	0	0	0	0	17	0	0	9	0	0	0	0	0	0	0	0	0	26
Total	118	135	203	60	312	62	86	5	50	8	65	21	0	24	0	0	0	0	1147



Report 2 – Treatment Summary

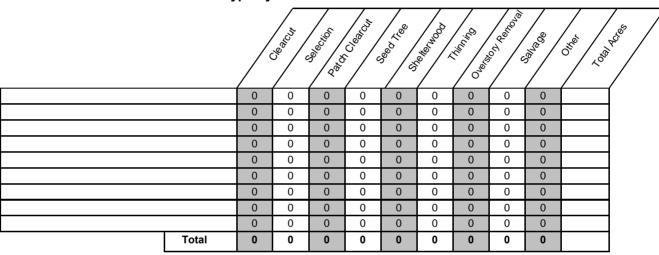
Gaylord Mgt. Unit Year of Entry: 2019

Acres of Harvest

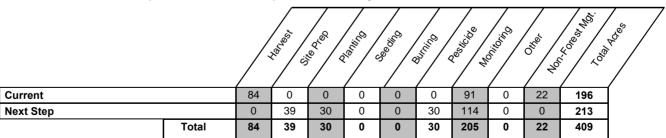
Compartment 178
Total Compartment Acres: 1,147

Commercial Harvest - 84 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Next Step

Acceptable Minimum stocking level of red pine.

Regen: Other

PArV

Comment:

10/01/2018 **Proposed Start Date:**

52178033-CC 6.0 42110 - Planted

Red Pine Boundary Red Pine Well 200

Harvest

Clearcut

Sawtimber

58

171-

Even-Aged

4211 - Planted

Draft Field

Habitat Cut: No Site Condition: Prescription Clearcut with no retention.

Specs:

Next Step SitePrep, Trenching; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(1yr);

Treatments:

Acceptable Minimum stocking level of red pine.

Regen:

Other PArV

Comment:

Proposed Start Date: 10/01/2018

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

41 52178041-29.1 310 - Herbaceous Nonstocked Monitoring Natural Regen 4131 - Aspen, Even-Aged Draft Field Openland (Re-Inventory) Oak Boundary Monitor

Habitat Cut: No Site Condition:

Prescription Monitor regeneration.

Specs:

Next Step

Treatments:

Acceptable Minimum stocking of oak, aspen and maple.

Regen:

Other Percent to Treat = 100%

Comment:

07/09/2015 Proposed Start Date:

Gaylord Mgt. Unit Report 3 -- Treatments Compartment: 178
Year of Entry: 2019

res Stand Size Stand BA Treatment Treatment Cover Type Age Approv

а **Cover Type Treatment** Acres Stand Size Stand BA **Treatment Treatment** Age **Approval** n Method Objective Range Status d Name CoverType Density Age Type Structure NF_52178008-8 21.6 310 - Herbaceous 31022 - Warm Draft Field Nonstocked Unspec NonForestMgt Other - Specify Openland Season Grass NonFor ified Boundary

Habitat Cut: No Site Condition:

<u>Prescription</u> WLD would like to eradicate Spotted Knapweed and plant native grasses (Little Bluestem) if budget allows. <u>Specs:</u>

Next Step Treatments:

s

t

Acceptable

Regen: Other

Spotted Knapweed is beginning to take over this field. There is a foundation from a house and an old outbuilding that should be removed.

Comment:

Proposed Start Date: 10/01/2008

Total Treatment 196.3 Acreage Proposed:

Compartment: 178

Gaylord Mgt. Unit

Shannon Harig : Examiner Year of Entry: 2019

Availa	ability for	Managemer	nt					
Total	Acres	Acres Avail	Acres	De	omina	nt Site	e Con	ditions
Acres	Available	With Condition	Not Available		5B	5C	3D	5E
309	304	0	5	Aspen				5
117	117	0	0	Herbaceous Openland				
224	224	0	0	Jack Pine				
2	2	0	0	Low-Density Trees				
144	143	0	1	Lowland Aspen/Balsam Poplar				1
19	19	0	0	Lowland Deciduous				
42	0	37	5	Mixed Upland Deciduous		37		5
75	36	0	39	Natural Mixed Pines			39	
26	19	8	0	Northern Hardwood		8		
27	7	20	0	Oak	20			
32	26	6	0	Red Pine		6		
106	106	0	0	Upland Mixed Forest				
26	26	0	0	White Pine				
1,147	1,027	70	50	Total Forested Acres	20	51	39	11
_	90%	6%	4%	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.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:	in this stand. A lot of large ca	vity trees	present Recommend ligh	nt thinning (80 to 90 BA res	idual) to release some of t	the nicer stems while

Report 4 - Site Conditions

Gaylord Mgt. Unit Shannon Harig: Examiner

Compartment: 178
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3 **Available** Unspecified Unspecified Unspecified Unspecified 5B: Maintain for 20 regeneration purposes Comments: Unspecified 4 Unavailable 3D: Recreational / Scenic 24 5C: Delay treatment for Unspecified Unspecified age/size class diversity values or exceptional site quality Comments: 5C: Delay treatment for Unspecified 5 Unavailable 3D: Recreational / Scenic 15 Unspecified Unspecified age/size class diversity values or exceptional site quality Comments: Unspecified Unspecified Unspecified Unspecified 6 5E: Long-Term Retention 5 Unavailable Comments: Unspecified Unspecified Unspecified Unspecified Unavailable 5E: Long-Term Retention 7 1 Comments: Unspecified Unspecified 5C: Delay treatment for Unspecified Unspecified 8 **Available** 37 age/size class diversity or exceptional site quality Comments:

Report 4 - Site Conditions

Gaylord Mgt. Unit Shannon Harig : Examiner

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9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						

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Mgt. Unit

Compartment: #Type! Year of Entry:



Report 5 - 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				

Mgt. Unit Compartment:
Year of Entry

Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS



* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservation Type Description
Area

ERA = Ecological Reference Area

HCVA = High Conservation Value Area

SCA = Special Conservation Area

s t	Gaylord	l Mgt. Unit		Report 7	- Forested	Stands Compartment: 178 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4123 - Red Oak	Sawtimber Well	7.1	76	81-110	Birch is dying. A lot of the white pine understory is short enough to be a weevil problem if overstory is removed.
2	42100 - Planted White Pine	Sawtimber Well	17.1	47	111-140	White pine in the west part of the stand is a little larger and lighter stocked.
3	42290 - Natural Mixed Pine	Sawtimber Well	14.6	109	141-170	Natural Pine. Looks good.
4	4130 - Aspen	Sapling Well	53.7	7	Immature	Regen looks great.
5	4123 - Red Oak	Sawtimber Medium	19.7	90	1-50	Very nice aspen and white pine regeneration throughout the stand.
6	6112 - Lowland Aspen	Sapling Well	82.9	17	Unspecified	
7	4130 - Aspen	Poletimber Well	11.9	38		
10	4311 - Pine, Aspen Mix	Poletimber Well	15.0	38	1-50	
11	6113 - Lowland Maple	Sawtimber Well	18.5	77	81-110	
12	42250 - Pine, Oak	Sawtimber Well	24.3	127	111-140	
13	42200 - Natural White Pine	Sawtimber Well	9.2	72	111-140	
14	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	11.9	5	Immature	Decent regen in most of the stand. Original stand wasn't heavily stocked.
15	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.2	77	51-80	A few scattered 14"+ red pine.
16	42290 - Natural Mixed Pine	Sawtimber Medium	24.0	56	51-80	
17	4119 - Mixed Northern Hardwoods	Sawtimber Well	7.6	84	111-140	A lot of large cavity trees and coarse woody debris present. Most of the maple and oak is in pretty good shape. Everything else is showing signs of decline.
18	6112 - Lowland Aspen	Sapling Well	47.9	5	Immature	Regent looks great.
19	6112 - Lowland Aspen	Poletimber Well	12.8	47	51-80	

s t	Gaylord	d Mgt. Unit		Report 7	- Forested \$	Stands Compartment: 178 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	62.2	38	1-50	
21	4311 - Pine, Aspen Mix	Poletimber Well	59.0	38	1-50	
22	42110 - Planted Red Pine	Sawtimber Well	5.0	56	171-200	Portions of this plantation failed. There are a few nice looking stems but most are not. There is red pine scattered through the jack pine directly to the east indicating the plantation extended east but failed.
23	42220 - Natural Jack Pine	Poletimber Well	31.8	43	51-80	
24	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	59.8	24	Immature	
25	4133 - Aspen, Mixed Pine	Poletimber Well	57.7	38	51-80	
27	4130 - Aspen	Poletimber Well	19.0	38	51-80	
29	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	37.2	91	51-80	White pine, oak, and aspen regen present. Everything looks healthy.
30	4133 - Aspen, Mixed Pine	Sapling Well	20.8	5	Immature	Regen looks good.
31	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	39.3	17	Unspecified	
32	42110 - Planted Red Pine	Sawtimber Well	14.9	56	81-110	Low quality red pine. Stocking is low resulting in poor form in a lot the trees.
33	42110 - Planted Red Pine	Sawtimber Well	6.0	58	171-200	
35	4136 - Aspen, Mixed Conifer	Sawtimber Well	36.3	56	111-140	Very heavy blowdown in a lot of this stand.
38	4130 - Aspen	Poletimber Well	87.3	38	51-80	Looks good.
39	4311 - Pine, Aspen Mix	Sapling Well	31.9	17	Immature	
42	42210 - Natural Red Pine	Sawtimber Well	5.8	108	81-110	Nice looking natural pine.
43	4130 - Aspen	Sapling Well	17.5	17	Immature	

s t	Gaylord	Mgt. Unit		Report 7	- Forested Stands	Compartment: 178 Year of Entry: 2019	DNR DNR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	M/CHIGAN . 8
44	4111 - S.Maple, Hard Mast Association	Sawtimber Well	3.4	90	111-140	Looks healthy, nice red oak.	
45	4132 - Aspen, Jack Pine	Sawtimber Well	4.6	60	111-140		
46	4199 - Other Mixed Upland Deciduous	Sawtimber Well	4.9	94	81-110	Retention from adjacent harvest.	
47	42120 - Planted Jack Pine	Sapling Well	30.7	17	Immature		

Compartment: 178 Year of Entry: 2019



Stand	Cover Type	Acres	Managed Site	General Comments:
8	310 - Herbaceous Openland	21.6	No	
28	310 - Herbaceous Openland	1.9	No	
36	310 - Herbaceous Openland	62.9		Decent regeneration in the north part of the stand, mostly aspen. Regen is sparse in the southern part. There are small jack pine seedlings scattered throughout the stand.
40	330 - Low-Density Trees	2.3	No	
41	310 - Herbaceous Openland	30.2		