



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52131

Entry Year 2018

Acreage: 305

County Emmet

Management Area: Emmet Moraines

Revision Date: 2016-05-18

Stand Examiner: Shannon Harig

Legal Description:

T37N R04W Sec. 22,27

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:

Rubicon Association soils, level topography.

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

State ownership is contiguous though surrounded by residential and commercial properties. Pellston Regional Airport is directly to the west and has an avigation easement on part of the compartment.

Unique Natural Features:

None known.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Stand 2 is maintained by the Pellston Regional Airport as an avigation easement.

Watershed and Fisheries Considerations:

There are no waterbodies in this compartment, so Fisheries has no concerns at this time.

Wildlife Habitat Considerations:

This small compartment contains multiple age classes of jack pine and with younger aspen. Grouse, woodcock, deer, and turkey were observed using associated habitat.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine sand and gravel. The glacial drift thickness varies between 200 and 600 feet. The Devonian Detroit River Group subcrops below the glacial drift. The Detroit River is mined for salt other areas in the state. A gravel pit is located two miles to the west, in Section 20, and another is located 1.5 miles north, in Section 10. There appears to be some sand and gravel potential, but the water table is relatively shallow within the compartment. The nearest oil and gas production, the Antrim Shale gas play, is located 30 miles to the south. There is no known oil and gas potential in the area.

Vehicle Access:

Good access to all of the compartment.

Survey Needs:

None

Recreational Facilities and Opportunities:

NWST is just to the west of this compartment.

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

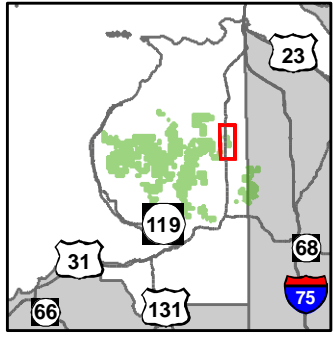
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

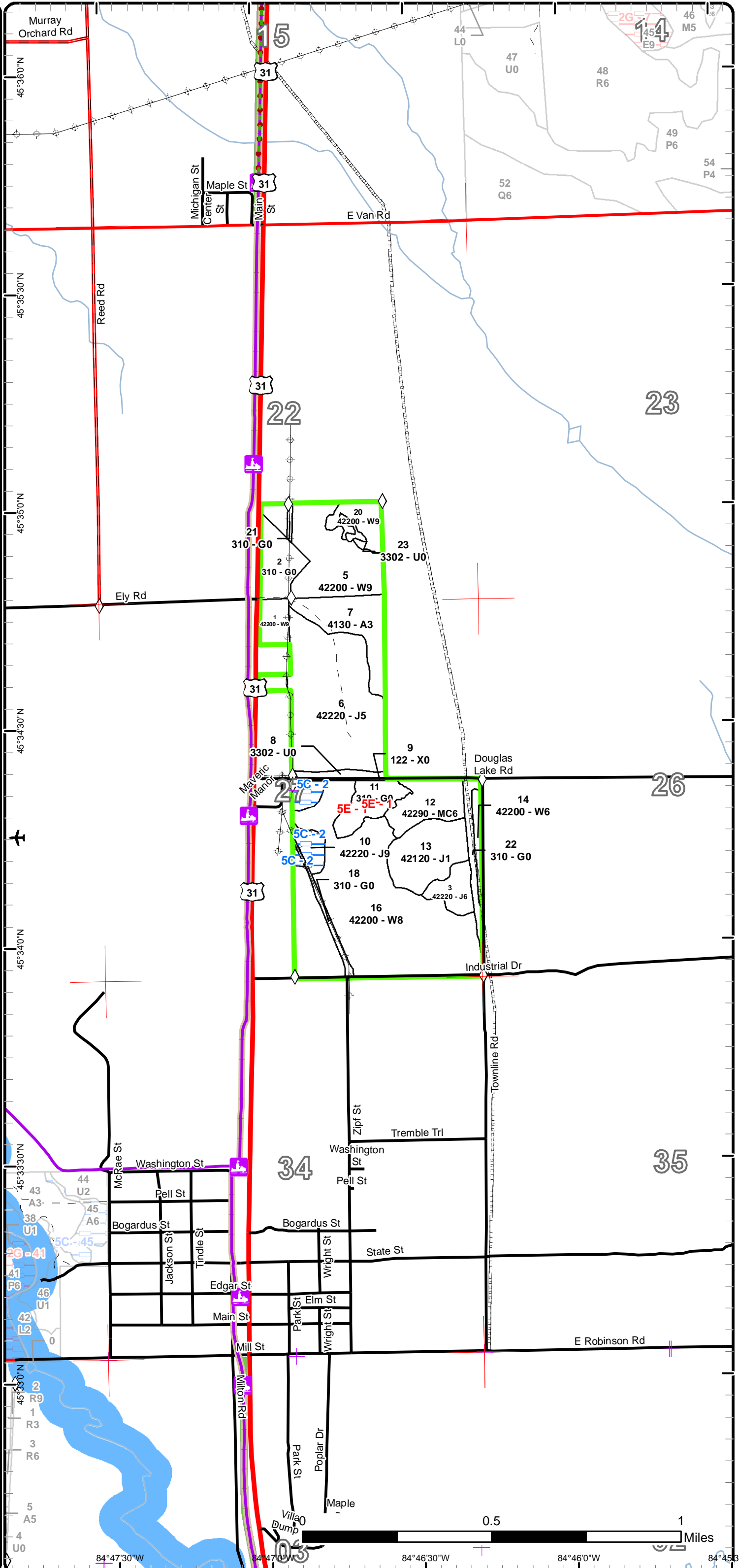
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Special Conservation Areas & Site Conditions Map

Compartment: 131
 T37N,R04W, Sections 22, 27
 County: Emmet
 Unit: Gaylord
 Mgmt Area: Emmet Moraines
 YOE: 2018
 Acres: 305 GIS Calculated
 Examiner: Shannon Harig
 Map Revised: 8/29/2016
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- ✈ Airport
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Snowmobile Trails
- Designated Railtrail
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Rail-Trail Corridor



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Herbaceous Openland	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Jack Pine	0	0	0	76	0	0	0	16	0	0	0	0	0	0	0	0	0	0	92
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Natural Mixed Pines	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	13
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	129	0	8	8	0	0	0	0	0	0	0	0	0	145
Total	37	0	0	94	0	129	13	24	8	0	0	0	0	0	0	0	0	0	305



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 131

Total Compartment Acres: 305

Commercial Harvest - 20
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	7	0	0	0	0	0	0	0	0	7
Natural Mixed Pines	13	0	0	0	0	0	0	0	0	13
Total	20	0	0	0	0	0	0	0	0	20

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	20	0	0	0	0	0	0	0	12	32
Next Step	0	0	0	0	0	0	20	0	0	20
Total	20	0	0	0	0	0	20	0	12	52



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
2	52131002-NF	11.5	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Mow, herbicide, brush, or burn, to maintain as opening
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Part of the Pellston airport that must be kept in an open condition.

Comment:

Proposed Start Date: 10/01/2017

3	52131003-CC	7.2	42220 - Natural Jack Pine	Poletimber Well	64	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut, leaving retention island. Harvest during snow off conditions to increase scarification for natural regeneration.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Minimum stocking of jack pine and white pine.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

12	52131012-CC	13.2	42290 - Natural Mixed Pine	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut, leaving retention island. Harvest during snow off conditions to increase scarification for natural regeneration.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Minimum stocking of jack pine, white pine.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

**Total Treatment
 Acreage Proposed: 31.9**

Report 4 – Site Conditions

Gaylord Mgt. Unit
Shannon Harig : Examiner

Compartment: 131
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	5E
		With Condition	Not Available			
18	18	0	0	Aspen		
31	30	0	1	Herbaceous Openland		1
92	83	9	0	Jack Pine	9	
4	4	0	0	Low-Density Trees		
13	13	0	0	Natural Mixed Pines		
2	2	0	0	Urban		
145	145	0	0	White Pine		
305	295	9	1	Total Forested Acres	9	1
	97%	3%	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.*

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	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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
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Comments



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.

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

Conservation Area	Type	Description
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Stand	Gaylord Mgt. Unit		Report 7 – Forested Stands			Compartment: 131 Year of Entry: 2018	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
1	42200 - Natural White Pine	Sawtimber Well	8.2	72	111-140		
3	42220 - Natural Jack Pine	Poletimber Well	7.2	64	111-140	Healthy, good form.	
5	42200 - Natural White Pine	Sawtimber Well	29.8	42	111-140		
6	42220 - Natural Jack Pine	Poletimber Medium	55.9	28	1-50	Poorly stocked, poor form jack pine.	
7	4130 - Aspen	Sapling Well	18.1	29	1-50	Trembling aspen roughly 20' tall. Some white pine and jack pine scattered throughout. Looks healthy.	
10	42220 - Natural Jack Pine	Sawtimber Well	9.1	60	141-170	Stand looks healthy.	
12	42290 - Natural Mixed Pine	Poletimber Well	13.2	52	81-110		
13	42120 - Planted Jack Pine	Sapling Poor	19.6	24	Immature	Failed plantation, jack pine is stunted (8 - 12 feet tall). Low stocking.	
14	42200 - Natural White Pine	Poletimber Well	3.5	42	141-170	Looks healthy, some large diameter white pine present..	
16	42200 - Natural White Pine	Sawtimber Medium	95.5	40	51-80	White pine looks healthy. Nice white pine regeneration in some areas. Aspen is marginal on this site.	
20	42200 - Natural White Pine	Sawtimber Well	8.1	67	111-140		



Stand	Cover Type	Acres	Managed Site	General Comments:
2	310 - Herbaceous Openland	11.5	No	Pellston Regional Airport avigation easement.
8	3302 - Low Density Conifer Trees	2.9		This strip was harvested in 2010. Sparse jack pine regeneration.
9	122 - Road/Parking Lot	2.0	No	Douglass Lake Road
11	310 - Herbaceous Openland	10.1		OPIC - FMD: HARVEST COMPLETED IN 2/2010. EVERYTHING HARVESTED DOWN TO 4 INCH DBH. Regeneration of jack pine, aspen and white pine will be acceptable. 2016-Jack pine regeneration looks great.
18	310 - Herbaceous Openland	2.8	No	Powerline ROW
21	310 - Herbaceous Openland	0.8	No	Powerline ROW
22	310 - Herbaceous Openland	5.5	No	Pipeline ROW
23	3302 - Low Density Conifer Trees	1.1	No	This stand is starting to fill in with white pine.