



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52009

Entry Year 2026

Acreage: 803

County Otsego

Management Area: High Sand Plains

Stand Examiner: Derek Nellis

Legal Description:

T29N, R01W, Sec. 19 & 31

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:

Dominate soil type is Rubicon-Grayling Sand, except drainage system through Section 19 which is Rifle Peat - Carbondale Muck.

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

Compartment is 100% state ownership. Adjacent ownership consists of large hunting clubs on the north branch of the AuSable River and Blue Water Realty Company on the west side of Crapo Lake Road.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

This compartment is part of the AuSable Outwash Management Area Plan.

Watershed and Fisheries Considerations:

This compartment contains portions of Little Crapo Lake and a tributary to Crapo Creek, and is adjacent to Crapo Lake. Crapo and Little Crapo Lakes have warmwater fish communities of largemouth bass, pumpkinseed sunfish, bluegill, and northern pike. These lakes are drained by Crapo Creek, a tributary to the North Branch Au Sable River. Proposed treatments are appropriate for the protection of these waterbodies, and Fisheries has no concerns at this time.

Wildlife Habitat Considerations:

Treatments in this compartment will maintain age class diversity in aspen and oak while creating early successional habitat benefiting deer, grouse, and woodcock. Clumps of mature oak will be left for mast production. Jack Pine should be managed for the benefit of Kirtland's Warbler in southern half of compartment as in adjacent compartment to east.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. The Mississippian Coldwater Shale subcrops below the glacial drift. The Coldwater does not have an economic use. The nearest gravel pit is located three miles to the north. No known active sand/gravel pits exist in the area. There is good potential for sand & gravel within the compartment on the uplands, but development could be inhibited by oil & gas infrastructure. In addition, demand for aggregate in the area may be low, primarily limited to the need for local road maintenance. All State-owned mineral rights in the compartment are currently leased and held by production for Antrim Shale gas. The Antrim Shale gas play is generally in decline in the northern LP, and the trend toward plugging of wells is expected to increase in the coming years. There is no known potential for metallic minerals in this part of the state

Vehicle Access:

This compartment has good access with Little Crapo Lake Road which is a county good dirt road located in Section 19, and Crapo Lake Road which is a county gravel road in Section 31. There are several gas pipeline roads within the compartment boundaries. There is no need for road closures at this time.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

There are no designated recreational trails within the compartment boundaries. The closest recreational trail is the Shupac Snowmobile Trail to the east in Section 32. Crapo Lake receives light fishing pressure summer and winter from local residents.

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

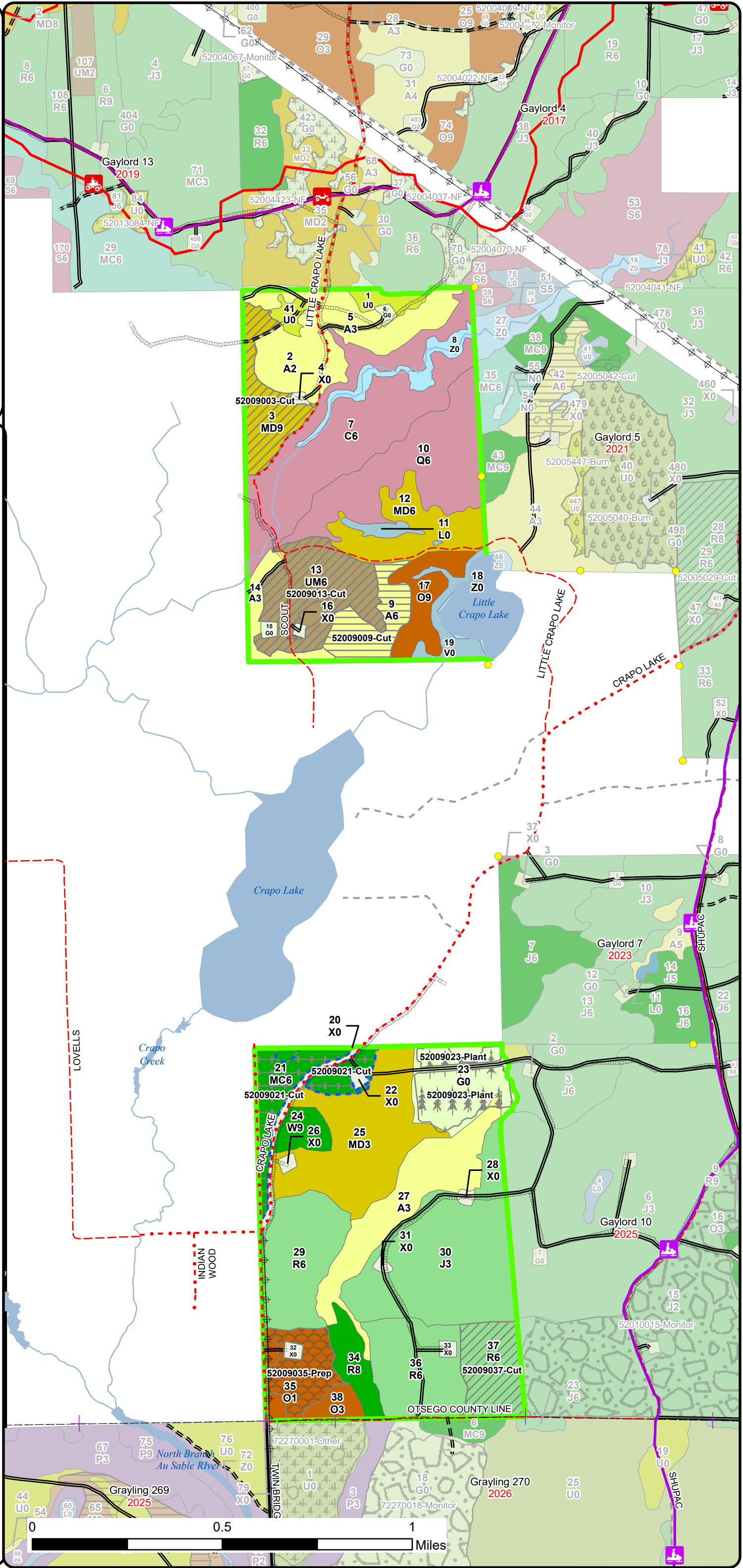
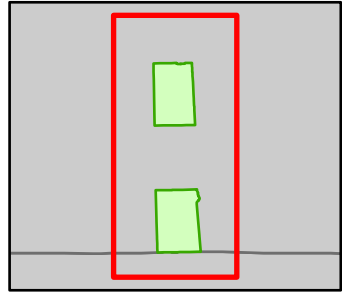
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

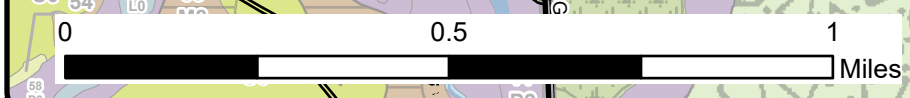
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 52009
 T29N, R1W, Sec: 19, 31
 County: Otsego
 Unit: Gaylord
 Mgmt Area: High Sand Plains
 YOE: 2026
 Acres: 803.5 GIS Calculated
 Examiner: Derek Nellis
 Map Revised: 05/13/2024
 Map Phase: Web - Post

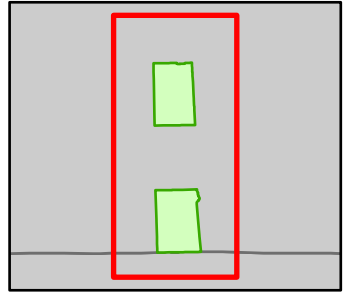


- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Remonumented Section Corners
- Survey Grade Corners
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Abandoned Railroads
- Lakes and Rivers
- Lake/Pond
- Perennial River
- Pipeline
- Powerline
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Planting (Tree Species)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Site Prep
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated

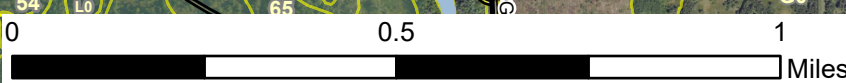
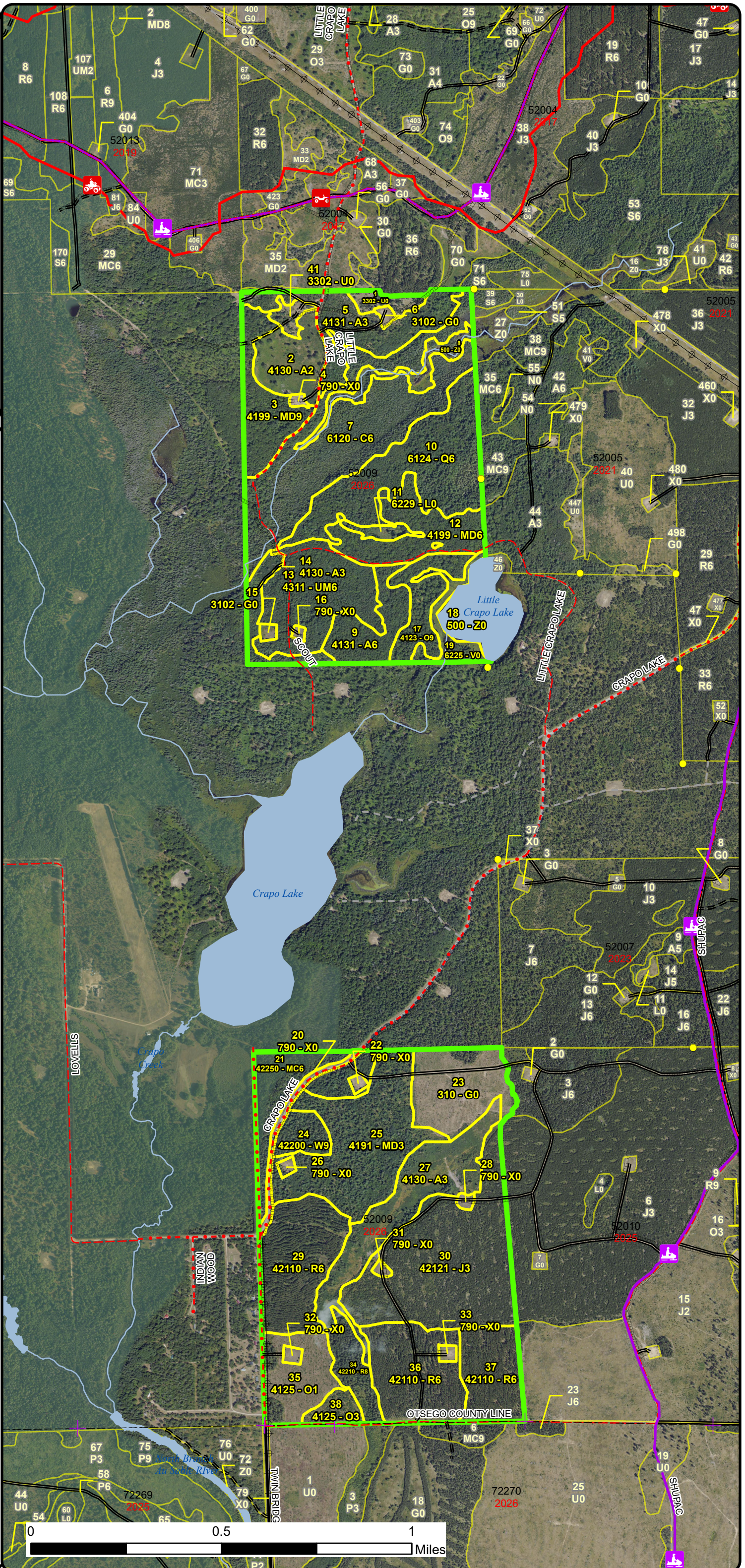


Stand Boundary Map

Compartment: 52009
 T29N, R1W, Sec: 19, 31
 County: Otsego
 Unit: Gaylord
 Mgmt Area: High Sand Plains
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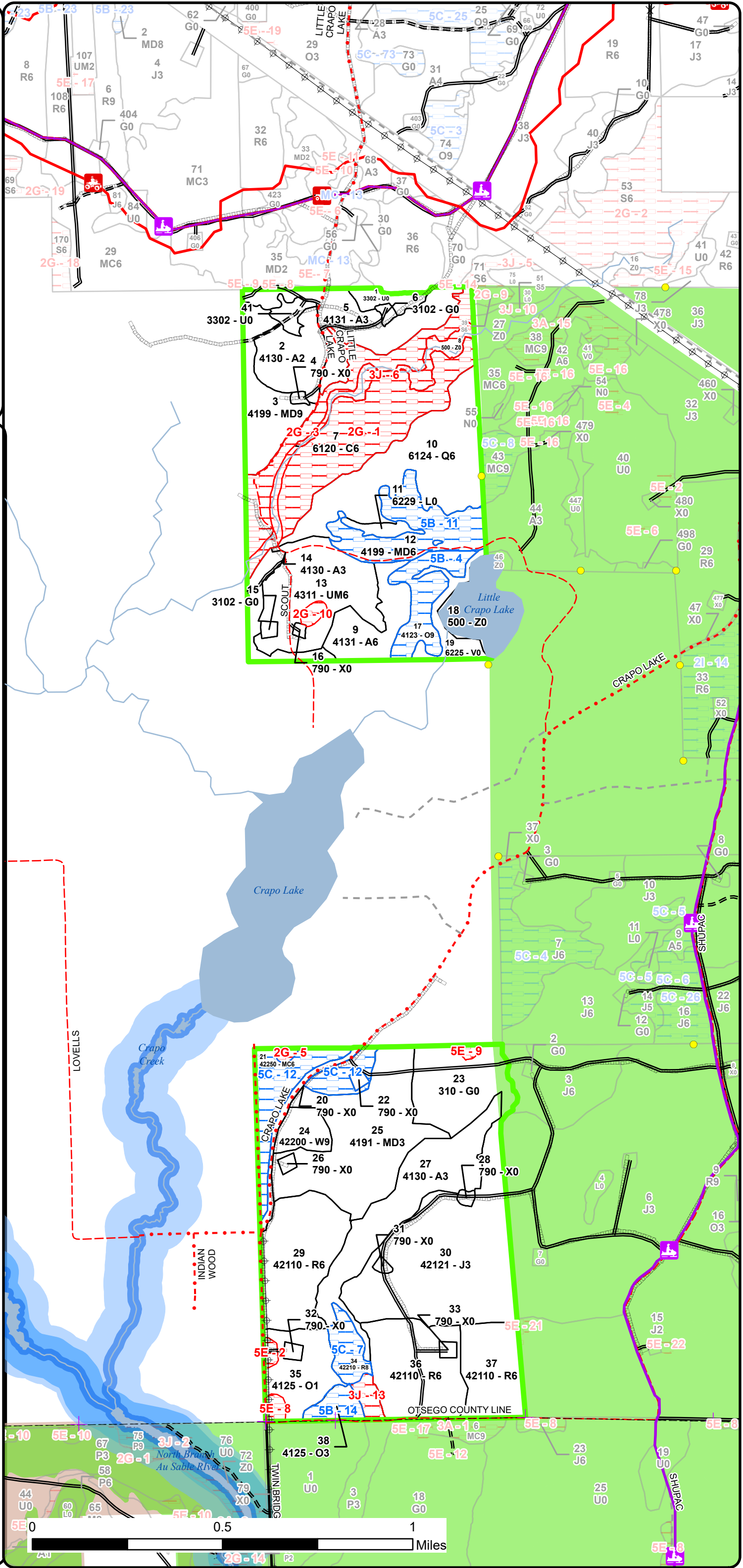
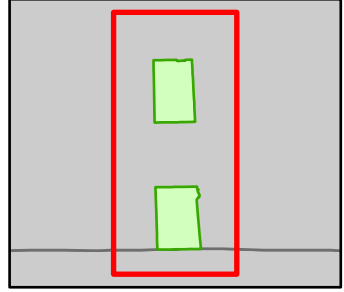


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- State Forests

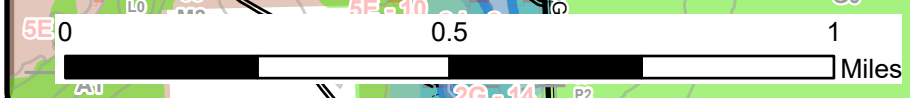


Special Conservation Areas & Site Conditions Map

Compartment: 52009
 T29N, R1W, Sec: 19, 31
 County: Otsego
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- Lake/Pond
- Perennial River
- Pipeline
- Powerline
- Counties
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands



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	63	42	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	125
Bare/Sparsely Vegetated	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Bog	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Cedar	0	0	0	0	0	0	0	0	0	0	0	84	0	0	0	0	0	0	84
Herbaceous Openland	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Jack Pine	0	0	0	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	0	57	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	0	0	62	0	0	0	0	0	0	24	0	29	0	0	0	0	0	115
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	28
Oak	0	24	7	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	49
Red Pine	0	0	0	0	0	0	0	78	25	0	0	0	13	0	0	0	0	0	116
Upland Mixed Forest	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	0	0	0	42
Water	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
White Pine	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Total	96	87	49	145	57	20	0	120	25	37	24	102	42	0	0	0	0	0	804



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 9

Total Compartment Acres: 803

Commercial Harvest - 108
 Harvests with Site Condition - 27
 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
Aspen	20	0	0	0	0	0	0	0	0	20
Mixed Upland Deciduous	0	0	0	0	23	0	0	0	0	23
Natural Mixed Pines	0	0	0	0	0	27	0	0	0	27
Red Pine	0	0	0	0	25	0	0	0	0	25
Upland Mixed Forest	0	0	0	0	40	0	0	0	0	40
Total	20	0	0	0	88	27	0	0	0	135

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	135	0	25	0	0	0	0	0	0	159
Next Step	0	0	0	0	0	93	0	0	0	93
Total	135	0	25	0	0	93	0	0	0	252



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	Habitat Cut
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Proposed Treatments:

3	52009003-Cut	23.3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	92	111-140	Harvest	Low Thinning	4122 - Oak, Pine	Two-Aged	No
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Prescription Thin to 60 BA. Do not harvest white pine, red pine or aspen. Protect regen. Include gas well and pipeline specs. Include appropriate oak wilt
Specs: specs.

Next Step
Treatments:

Acceptable A mix of oak and pine to meet minimum stocking.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

9	52009009-Cut	19.5	4131 - Aspen, Oak	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all stems >2" DBH. Do not cut red or white pine. Make to retain up to 10 BA of oak for mast and structural diversity. Include grouse
Specs: drumming log spec.

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

Acceptable Aspen with a mix of oak and pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

13	52009013-Cut	40.1	4311 - Pine, Aspen Mix	Poletimber Well	62	111-140	Harvest	Low Thinning	42101 - Planted White Pine, Mixed Deciduous	Even-Aged	No
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Prescription Harvest all aspen and red maple. Thin patches of white pine to 100 BA. Retain up to 10 BA of oak for mast and structural diversity. Small
Specs: lowland depression has been removed from treatment area. Include gas well and pipeline specs. Include snowshoe hare habitat specs for the area north of Little Crapo Lake Rd.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
21 52009021-Cut	27.0	42250 - Pine, Oak	Poletimber Well	88	1-50	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all stems >5"DBH. Protect regen. Include gas well and pipeline specs. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A mix of pine, oak, and aspen. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Age-Class or Site Quality <u>Proposed Start Date:</u> 10/1 /2025</p>										
37 52009037-Cut	24.7	42110 - Planted Red Pine	Poletimber Well	75	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin from below to a residual BA of 100. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>										

Approved Treatments:

23 52009023-Plant	24.5	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u> <u>Next Step</u> ; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> Fully stocked red pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment 159.1
Acreage Proposed:

Report 4 – Site Conditions

Gaylord Mgt. Unit
Derek Nellis : Examiner

Compartment: 9
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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Dominant Site Conditions

5B 5C 2G 3J 5E

Total	Acres	Acres Avail	Acres	Dominant Site Conditions	5B	5C	2G	3J	5E
125	125	0	0	Aspen					
14	14	0	0	Bare/Sparsely Vegetated					
10	10	0	0	Bog					
84	0	0	84	Cedar			79	5	
35	33	0	1	Herbaceous Openland					1
83	83	0	0	Jack Pine					
9	9	0	0	Low-Density Trees					
57	57	0	0	Lowland Conifers					
4	4	0	0	Lowland Shrub					
115	86	29	0	Mixed Upland Deciduous	29				
28	0	27	1	Natural Mixed Pines		27	1		
49	20	25	4	Oak	25				4
115	102	9	4	Red Pine	0	9		4	
42	40	0	2	Upland Mixed Forest			2		
24	13	0	11	Water			0	11	
9	9	0	0	White Pine					
803	605	91	108	Total Forested Acres	55	36	82	20	5
	75%	11%	13%	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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Derek Nellis : Examiner

Compartment: 9
Year of Entry: 2026

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Crapo Creek, water							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Derek Nellis : Examiner

Compartment: 9
Year of Entry: 2026

9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5B: Maintain for regeneration purposes	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Pine overstory removed during harvest, advanced oak regeneration left							

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
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
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 lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
1	3302 - Low Density Conifer Trees	Nonstocked	5.5		Unspecified	No	Upland brush with juneberry and scattered white pine and jack pine.																																																											
				<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>>20 feet</td> <td>Pole</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	>20 feet	Pole																																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																															
White Pine	Low	>20 feet	Pole																																																															
2	4130 - Aspen	Sapling Medium	20.2	4	Immature	N/A	Fully stocked patches of aspen with low/non-stocked oak, maple, and cherry. Heavier to oak on the north end.																																																											
				<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern Pin Oak</td> <td>10</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> <tr> <td>Quaking Aspen</td> <td>80</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern Pin Oak	10	Sapling	1	4	Quaking Aspen	80	Sapling	1	4	Red Maple	10	Sapling	1	4	Stand harvested 01/2020. Keep the Curl Mix (52-002-16). Scattered Red and White Oak and Red Pine left in clumps of 3-5 trees.																																								
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3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	23.5	92	111-140	N/A	Hybrid Oak sawlog stand of ok quality. Select harvest completed on this stand in 2011 under contract 52-005-06-01. Noted deer feeding activity during winter under oak trees. Selection cut left some old relic red & white pine primarily in NE and along south boundary adjacent to swamp. White pine understory ranges from dense 2'-5' height to 10'-20' saplings. Overall, stand looks good. Minor component of aspen & red maple left.																																																											
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4	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.8		Unspecified	No	Well pad.																																																											
5	4131 - Aspen, Oak	Sapling Well	32.0	13	Unspecified	N/A	This stand was final harvested in 2011 with a few scattered oak & pine left primarily on outside edges of stand. Well established sapling stand with quaking aspen, pin oak, and jack pine.																																																											
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6	3102 - Grass	Nonstocked	1.2		Unspecified	Managed Opening	Well Pad																																																											
7	6120 - Lowland Cedar	Poletimber Well	84.2	101	111-140	N/A	Swamp conifer stand with minor component of quaking aspen, red maple, white birch. Good winter deer cover. Crapo Creek corridor.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8 500 - Water Nonstocked 11.1 Unspecified No Crapo creek and associated non-forested wetlands.

9 4131 - Aspen, Oak Poletimber Well 19.5 48 81-110 N/A Aspen stand with overtopping red oak. Stand was cut 38 years ago removing the aspen which still remains small & sub- merchantable.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	25	Log	16		Red Maple	Low	>20 feet	Sapling
Paper Birch	5	Pole	6					
Bigtooth Aspen	25	Pole	8	48				
Quaking Aspen	25	Pole	6	48				
Red Maple	20	Pole	6					

10 6124 - Lowland Spruce-Fir Poletimber Well 57.4 35 51-80 N/A Mixed stand white pine, red pine and swamp conifer. Unique stand with Crapo Creek influence, bog-like leatherleaf ground cover and patches with almost pure black spruce poletimber. Lots of deer activity. Standing water in December. A pine log selection cut was completed in 1988. Residual pine were left as seed trees which created advanced regen of white pine, black spruce, balsam fir, & red maple now 25 yrs. old.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	10	Pole	8		White Pine	High	>20 feet	Sapling
White Pine	20	XLog	20	111	Tag Alder	Low	10 - 20 feet	Tall Shrub
Balsam Fir	30	Pole	6	35	Leatherleaf	High	< 5 feet	Tall Shrub
Red Pine	12	Log	16		Red Maple	High	>20 feet	Sapling
Red Maple	5	Log	12		Black Spruce	Medium	>20 feet	Sapling
Jack Pine	3	Pole	8					
Black Spruce	20	Pole	6	35				

11 6229 - Mixed lowland shrub Nonstocked 3.7 Unspecified No Lowland depression. Surface water present at time of inventory.

12 4199 - Other Mixed Upland Deciduous Poletimber Well 29.4 110 81-110 N/A Maple, aspen, birch pole stand with overtopping red oak. Stand was cut 48 years ago removing the aspen which still remains small & sub-merchantable.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole	6		Red Maple	Low	>20 feet	Sapling
Quaking Aspen	10	Pole/Sapling	5	48				
Paper Birch	5	Pole	6					
Bigtooth Aspen	15	Pole/Sapling	6	48				
Red Oak	45	Log	16	110				

13 4311 - Pine, Aspen Mix Poletimber Well 42.1 62 111-140 N/A White pine plantation established in 1962. Other species intermixed include aspen, red maple, birch & oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	2	XLog	20		White Pine	Low	>20 feet	Sapling
White Pine	47	Pole	6	62				
Northern Pin Oak	5	XLog/Log	18					
Quaking Aspen	36	Pole	6					
Balsam Fir	3	Pole/Sapling	6					
Red Maple	7	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
14	4130 - Aspen	Sapling Well	10.4	13	Unspecified	N/A	Final harvest completed in 2011. All species cut except a few scattered white & red pine and white oak. Very dense aspen regeneration 12'-15' in height																																												
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15	3102 - Grass	Nonstocked	1.1		Unspecified	No	Well pad.																																												
16	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.7		Unspecified	No	Well Pad.																																												
17	4123 - Red Oak	Sawtimber Well	18.4	107	51-80	N/A	Red Oak adjacent to Little Crapo Lake. The north side of stand has a walk-in boat launch which became a successful RDR restoration project with boulders & erosion control. North half of stand had a light selection cut leaving the residual BA an average of 100 sq.ft/ac. The south half was cut in 2011, marking to leave oak & aspen with an average of 60 sq.ft.BA/ac. Maintained as one 16.5 acre stand currently.																																												
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18	500 - Water	Nonstocked	12.9		Unspecified	No	Little Crapo Lake																																												
19	6225 - Bog	Nonstocked	9.9		Unspecified	No	Non-forested wetland around the perimeter of Little Crapo Lake. Includes low ground swale south of stand 17 and inaccessible portion of stand east of the lake outlet.																																												
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20	790 - Other Bare/Sparsely Vegetated	Nonstocked	5.5		Unspecified	No	Crapo Lake Rd.																																												
21	42250 - Pine, Oak	Poletimber Well	28.1	88	1-50	N/A	White pine stand with pin oak, aspen, white oak, and red pine. Aspen was cut out of this stand in 1997 which has generated clones of aspen regen 25' tall. The south side of Crapo Lake Rd. had a second cut in 2011. Adequate stocking and species diversity.																																												
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22	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0		Unspecified																																														
23	310 - Herbaceous Openland	Nonstocked	32.3	0	Unspecified	4211 - Planted Red Pine	Stand harvested 02/2020 Keep the Curl Mix 52-002-16. Good job scattering and breaking up slash, stumps cut low to the ground. Trenching completed 06/16/2022. Next step treatment of ground herbicide 10/01/2022. Site prep spray completed 08/19/23.																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
24	42200 - Natural White Pine	Sawtimber Well	9.0	88	51-80	N/A	Predominantly a natural white pine stand mixed with pin oak, red maple, and red pine. White pine has a mix of six classes from 12"-14" dbh as well as 4"-6" dbh.																																			
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25	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	62.0	27	Immature	N/A	This stand had two shelterwood cuts in 1997 and then in 2011. Featured stand is currently a well stocked stand of natural regeneration with a mix of pin oak over 10' tall, quaking aspen 25' tall, jack pine & white pine over 10' tall. The minor component of pin oak in overstory had died which provides beneficial long standing wildlife snags.																																			
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Northern Pin Oak	High	5 - 10 feet	Sapling																																							
26	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		Unspecified																																					
27	4130 - Aspen	Sapling Well	43.2	4	Immature	N/A	Stand harvested 02/2020 Keep the Curl Mix (52-002-16). All oak and red/white pine left. Quite a bit of oak under story that was left undamaged during harvest.																																			
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28	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0		Unspecified																																					
29	42110 - Planted Red Pine	Poletimber Well	40.5	62	111-140	N/A	Stand 3rd row thinned 09/2017. Red pine plantation which has never had a row thinning to establish skid trails. North half of stand had overtopping oak cut in 1988. Some of the oak stump sprouted back to a height of 20' in the understory. Variable density was noted especially in the north half where oak was previously present. Good quality red pine 4-5 pulp stick average.																																			
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30	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	82.7	28	Immature	N/A	Planted jack pine established in 1996. This stand was included in the adjacent KW mgt to the east when harvesting in 1995 was completed. Note: Compartment 9 is not included in the designated KW mgt. plan.																																			
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31	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9		Unspecified																																			
32	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.3		Unspecified																																			
33	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.2		Unspecified																																			
34	42210 - Natural Red Pine	Sawtimber Medium	13.0	116	1-50	N/A	Natural red & white pine of old growth character (20"-24" dbh) Narrow corridor between red pine plantations. Advanced regeneration of white pine, red pine, & pine oak to favor.																																	
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35	4125 - Black, N. Pin Oak	Sapling Poor	24.1	3	Immature	N/A	Partially failed red pine planting. Continued browse pressure. Pin oak regen fairly evenly dispersed throughout the stand. Stand Final Harvested 9/2017, chipping completed 12/2017. FTP C52-456. FTP has been submitted so stand should be thinned in the spring of 2018. Stand trenched in 2018. Sprayed 08/7/2020 by FRD staff. Planted 04/27/21. Year 1 regen survey indicates 720 TPA with only 30% FTG. Per PUER herbicide release was ineffective, recommend herbicide release next year. Due to large amount of elk browse damage recorded 45% mortality in planted red pine stock. Decided with TMS to restart planting process contingent on condition of the stand during the 2024 YOE inventory.																																	
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36	42110 - Planted Red Pine	Poletimber Well	37.1	62	111-140	N/A	Stand 3rd row thinned 09/2017. Red Pine plantation never thinned. Red pine stand would benefit from a one-third first time thinning.																																	
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37	42110 - Planted Red Pine	Poletimber Well	24.7	75	141-170	N/A	Red pine plantation species thinned in 2001 by removing most of jack pine, pin oak, and aspen. No red pine was cut. Good quality red pine stand with 4-5 pulp sticks average. The sale was prepared in 1996, but it took 5 yrs. to accomplish the harvest. (Sale 52-009-96-01 was Bill Karnes last prepared sale) Species thinning opened up red pine crowns. Ave BA = 122 sq.ft./ac.																																	
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38	4125 - Black, N. Pin Oak	Sapling Well	6.6	16	Immature	N/A	Stand Final Harvested 9/2017, this is a new stand, oak advanced regen left in order to convert to Mixed Upland Deciduous stand.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments								
41	3302 - Low Density Conifer Trees	Nonstocked	3.9		Unspecified	No	Upland brush with juneberry and scattered white pine and jack pine.								
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