



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52001

Entry Year 2024

Acreage: 1,245

County Otsego

Management Area: AuSable Outwash

Stand Examiner: Matthew Foster

Legal Description:

T29N R01W Sections 3 and 10

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 soil type is Graycalm Stand and Roselawn Sand. The terrain is level to gently rolling throughout the compartment.

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

Private ownership on the west and east sides of the compartment, most of which is broken into 10 acre or smaller parcels. Douglas Lake, Little Bear and Big Bear Lakes are developed with seasonal and year round cottages and homes. There is extensive Gas and Oil development throughout the compartment.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

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

Watershed and Fisheries Considerations:

Wetland complex in the southeast quarter of section 10. Little Bear Lake, Big Bear Lake, and Duck Lake are to the east on private land. Douglass Lake is adjacent to the west on private land.

Wildlife Habitat Considerations:

This compartment consists mostly of upland areas containing oak, mixed aspen/oak, and red and jack pine. Harvests will concentrate on regenerating the oak for future mast production while leaving clumps and/or islands of oak for current mast production and as a seed source. This early successional habitat will benefit white-tailed deer, wild turkey, grouse, woodcock and various songbirds. This area receives significant hunting pressure for white-tailed deer, grouse, woodcock, and wild turkey.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is nearly five miles to the southeast. Potential exists for sand & gravel within the compartment. All State-owned mineral rights in the compartment are currently leased and in 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 will increase in coming years. The compartment is on the south margin of the Guelph (Niagaran) reef trend, and there may be some potential for future reef discoveries and for future gas storage and/or carbon sequestration projects. There is no known potential for metallic minerals in this part of the state.

Vehicle Access:

Old State Road borders the south boundary, while Dagon Road provides access to the north end of the compartment. Multiple state forest roads provide access to the interior portions.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

North Branch snowmobile trail traverses north on the west side of Sections 3 and 10. Crapo Creek ORV Trail and Route traverses through the compartment. There is also a Midland to Mackinaw Horse Trail that traverses through the compartment utilizing existing pipeline roads.

Fire Protection:

The south end of the compartment has some fire potential with a couple of dense jack pine stands.

Additional Compartment Information:

The following reports from the Inventory are attached:

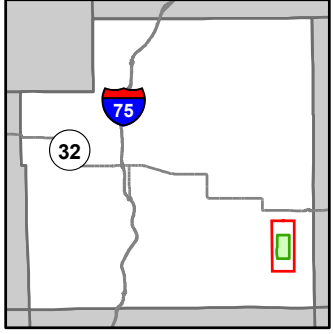
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

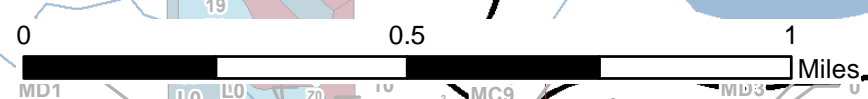
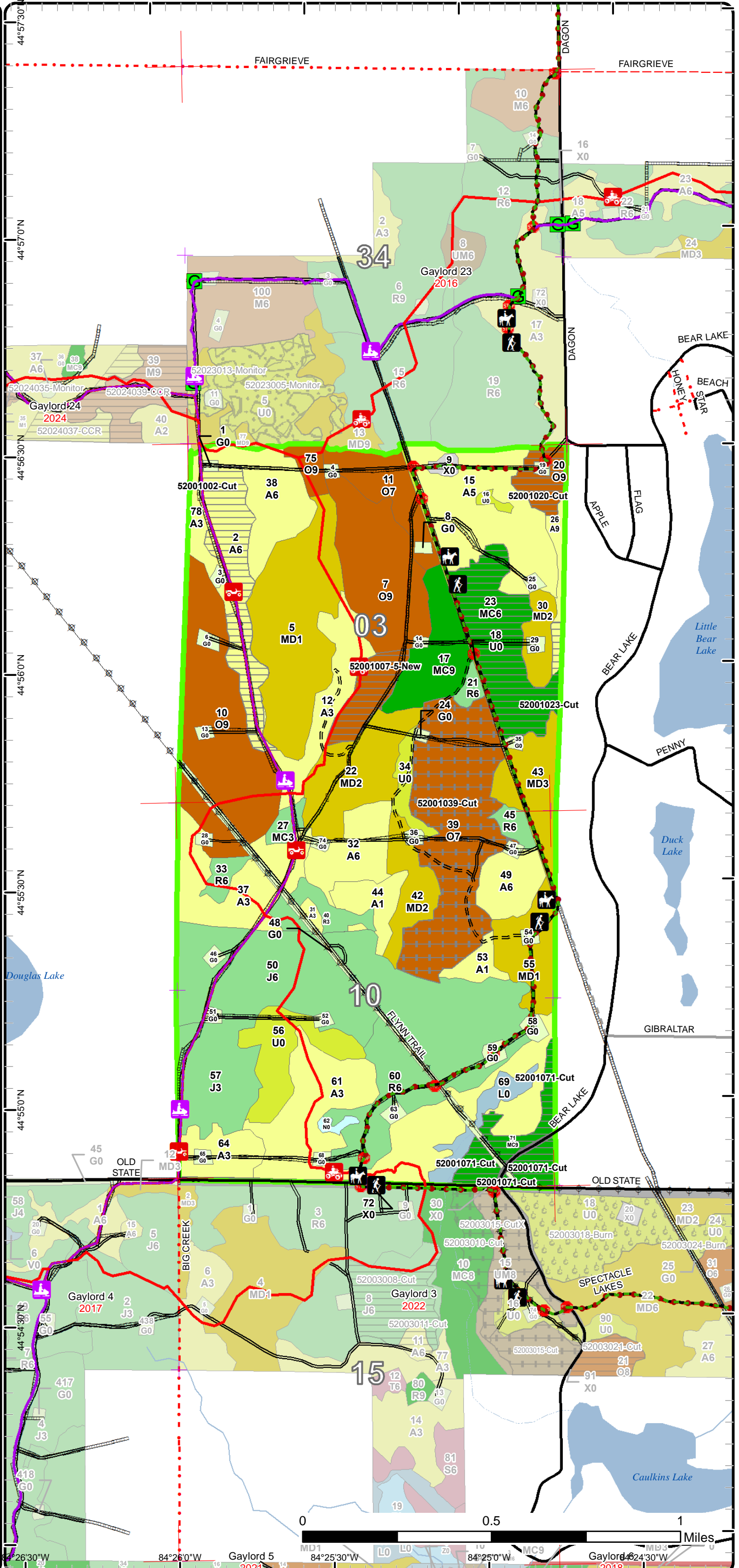
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 1
 T29N, R01W, Sec. 3, 10
 County: Otsego
 Unit: Gaylord
 Mgmt Area: AuSable Outwash
 YOE: 2024
 Acres: 1244.9 GIS Calculated
 Examiner: Matthew Foster
 Map Revised: 11/15/2022
 Map Phase: Post-Review



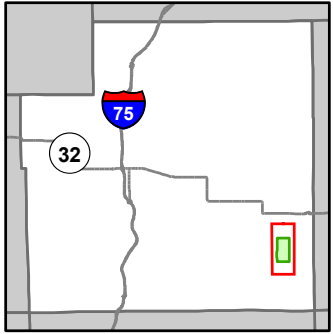
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Horse Trails
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G Gate
- Sign
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



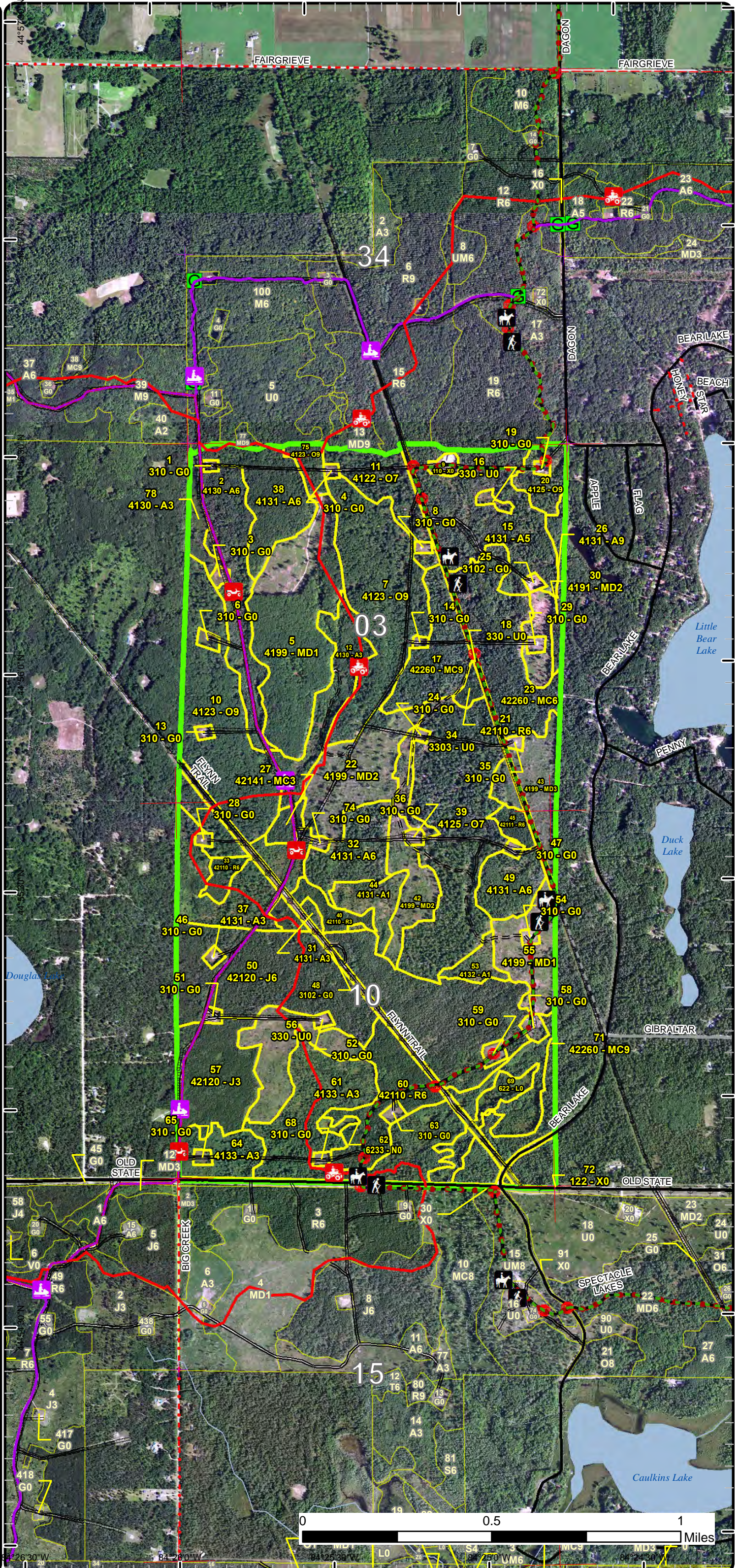
84°26'30"W 84°26'0"W 84°25'30"W 84°25'0"W
 Gaylord 5 2021 Gaylord 3 2022 Gaylord 4 2017 Gaylord 23 2016

Stand Boundary Map

Compartment: 1
 T29N, R01W, Sec. 3, 10
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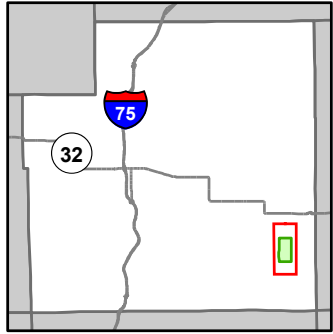


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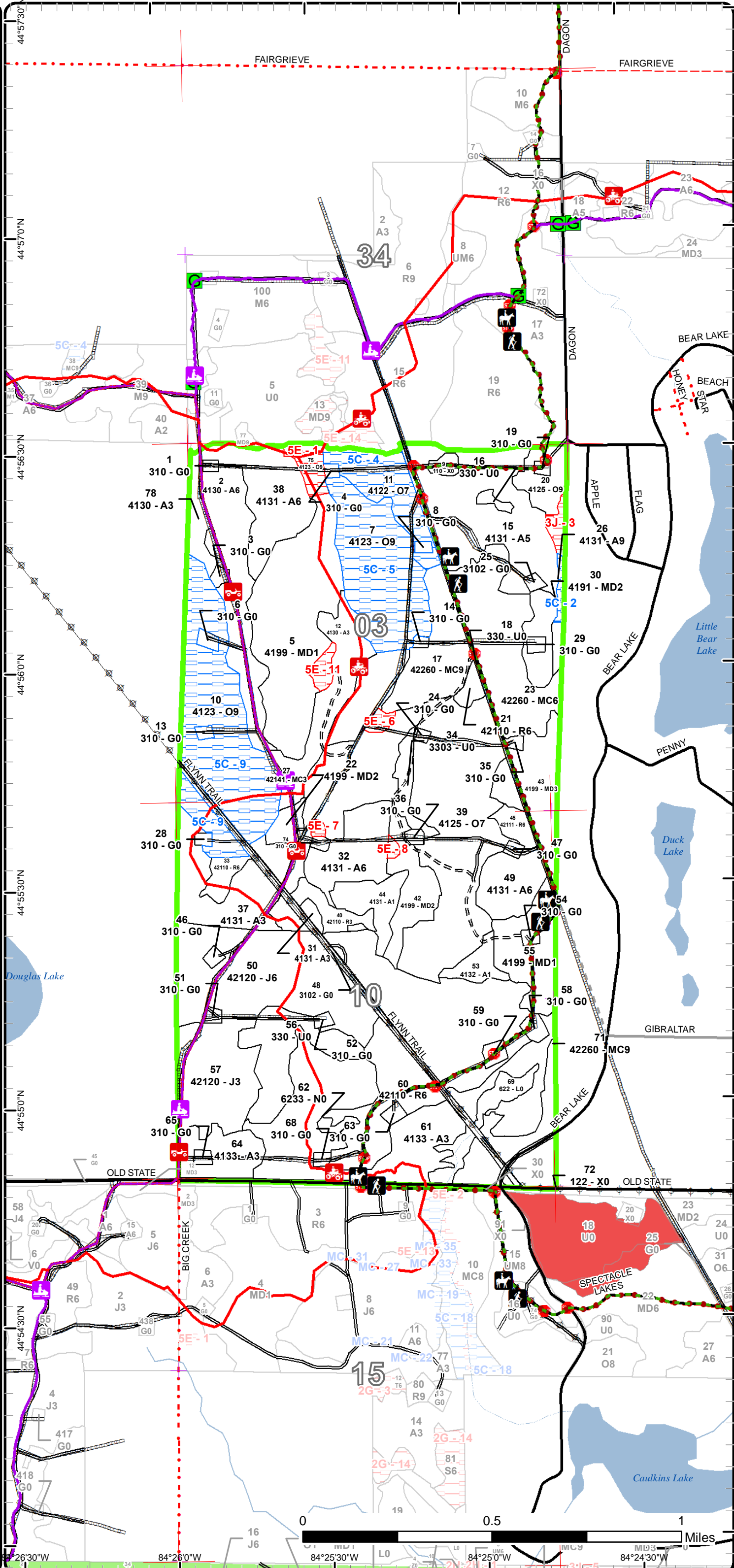


Special Conservation Areas

Compartment: 1
 T29N, R01W, Sec. 3, 10
 County: Otsego
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- G Gate
- Sign
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Kirtland Warbler Habitat
- Cold Water Streams



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	26	169	0	163	0	0	8	0	0	0	0	0	0	0	0	0	366
Herbaceous Openland	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Jack Pine	0	0	0	37	0	132	0	0	0	0	0	0	0	0	0	0	0	0	169
Low-Density Trees	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Lowland Shrub	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180
Natural Mixed Pines	0	0	0	0	0	46	0	0	0	0	24	0	0	0	0	0	0	27	97
Oak	0	0	0	0	0	0	0	0	0	0	178	0	0	0	0	0	0	86	264
Planted Mixed Pines	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Red Pine	0	0	0	24	31	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	111	180	26	235	31	341	0	0	8	0	202	0	0	0	0	0	0	113	1247



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 1
Total Compartment Acres: 1,245

Commercial Harvest - 220
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
Aspen	36	0	0	0	0	0	0	0	0	36
Natural Mixed Pines	72	0	0	0	0	0	0	0	0	72
Oak	26	0	0	0	0	86	0	0	0	112
Total	134	0	0	0	0	86	0	0	0	220

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	220	0	0	0	0	0	0	0	0	220
Next Step	0	0	0	0	0	134	0	0	0	134
Total	220	0	0	0	0	134	0	0	0	354



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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
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Approved Treatments:

2	52001002-Cut	35.6	4130 - Aspen	Poletimber Well	46	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest all trees 2" DBH and up, leave minimum island retention. Add snowmobile and ORV trail protection specs.
Specs:

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

Acceptable Aspen and maple that meets minimum stocking requirements.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

7	52001007-5-New	15.3	4123 - Red Oak	Sawtimber Well	95	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Harvest all trees 2" DBH and up, except white pine. Leave minimum island retention. Add specs to protect the ORV trail.
Specs:

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

Acceptable Any mix of oak, red maple, and white pine that meets minimum stocking requirements.
Regen:

Other This treatment area covers a small portion of a larger stand. This area is showing decline in the oak, especially at the south end.
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

20	52001020-Cut	11.0	4125 - Black, N. Pin Oak	Sawtimber Well	93	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Final harvest all trees 4"DBH and up, leave all white pine. Leave minimum island retention, protect existing regeneration as much as possible. Add specs to protect the hiking and horse trail.
Specs:

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

Acceptable Any combination of aspen, oak, maple, and white pine that meets minimum stocking standards.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

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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
23	52001023-Cut	48.2	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	47	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest all trees 2" and up, leave standard island retention around longer lived species (white or red pine). Add specs to protect the horse and hiking trail that run adjacent to this treatment.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of oak, aspen, red maple, and pine that meets minimum stocking requirements.</p> <p><u>Other Comment:</u> Use the harvest operations to close the illegal ORV trail that traverses through the northern portion of this stand. Extended treatment to cover southern portion of stand 26.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2023</p>											
39	52001039-Cut	86.0	4125 - Black, N. Pin Oak	Sawtimber Poor	90	1-50	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all trees 5" at DBH and up, protect current regeneration that is already established as much as possible. Leave standard island retention at the north end of the stand. Add specs to protect the horse and hiking trail.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Not a regeneration harvest, existing regeneration is to be protected.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2023</p>											
71	52001071-Cut	23.9	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	92	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest all trees 2" DBH and up, leave standard island retention. Mark to leave some of the large diameter red pine. Follow BMP's along the adjacent wet drainage (stand 69).</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of oak, maple, and pine that meets minimum stocking requirements.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2023</p>											

Total Treatment 220
Acres Proposed:

Report 4 – Site Conditions

Gaylord Mgt. Unit
Matthew Foster : Examiner

Compartment: 1
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		5C	3J	5E
366	360	2	3	Aspen	2	3	
44	44	0	0	Herbaceous Openland			
169	169	0	0	Jack Pine			
43	43	0	0	Low-Density Trees			
11	11	0	0	Lowland Shrub			
2	2	0	0	Marsh			
180	173	0	7	Mixed Upland Deciduous			7
97	97	0	0	Natural Mixed Pines			
264	112	146	6	Oak	146		6
5	5	0	0	Planted Mixed Pines			
55	55	0	0	Red Pine			
9	9	0	0	Urban			
1,245	1,080	148	17	Total Forested Acres	148	3	14
	87%	12%	1%	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	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold and harvest with stand 15 in the future.							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Matthew Foster: Examiner

Compartment: 1
Year of Entry: 2024

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	74	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	3	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
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
1	310 - Herbaceous Openland	Nonstocked	0.8				Gas well, Breitburn Operating St Charlton 2-3.																																																	
2	4130 - Aspen	Poletimber Well	35.9	46	51-80	N/A	Poor quality aspen, some is dying out in the middle of the stand, north and south ends have best stocking.																																																	
<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>Black Cherry</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Pole</td> <td>7</td> <td>46</td> </tr> <tr> <td>Northern Pin Oak</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>White Pine</td> <td>3</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>70</td> <td>Pole</td> <td>7</td> <td>46</td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>Log</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	10	Pole	6		Red Maple	10	Pole	7	46	Northern Pin Oak	5	Pole	7		White Pine	3	Log/Pole	10		Quaking Aspen	70	Pole	7	46	Red Pine	2	Log	12		<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>Northern Pin Oak</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Northern Pin Oak	Medium	10 - 20 feet	Sapling	Beech	Low	5 - 10 feet	Sapling	White Pine	Low	10 - 20 feet	Sapling		
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4	310 - Herbaceous Openland	Nonstocked	0.9				Gas well, Breitburn Operating St Charlton 3-3.																																																	
5	4199 - Other Mixed Upland Deciduous	Sapling Poor	69.5	5	Immature	N/A	Harvested in 2017, oak and pine leave trees scattered throughout. Heavy deer browse, especially at north end. Regeneration survey resulted in 533 total TPA: 197 aspen, 187 red maple, 140 oak, with a trace of cherry, red pine, and white pine. Meets the minimum stocking but does not meet the minimum oak stems.																																																	
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7	4123 - Red Oak	Sawtimber Well	64.9	95	81-110	N/A	Selection harvest completed in 2011, all aspen, red maple, and jack pine were removed. Understory is dominated by red maple and has a good white pine component. Oak is healthy in this stand except for the far south end, should consider doing something there.																																																	
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9	110 - Low Intensity Urban	Nonstocked	2.4		Immature		Gas facility, Riverside Energy Charlton East CPF.																																																		
10	4123 - Red Oak	Sawtimber Well	74.2	93	81-110	N/A	Selection harvest done in 2011, all aspen, red maple, and jack pine were also cut. Mostly red maple in the understory, thicker regeneration at the north end where there must have been more aspen/red maple. Some decline showing in the oak.																																																		
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11	4122 - Oak, Pine	Sawtimber Poor	21.8	95	1-50	N/A	Selection harvest done in 2011 with stand 7, all aspen, red maple and jack pine was removed. This area must have had more of those species, canopy is open and understory is thick. Mix of large crowned oak and pine in the overstory, understory is thick with aspen/maple. Entering now would do too much damage to the understory.																																																		
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12	4130 - Aspen	Sapling Well	26.7	26	Immature	N/A	Final harvest completed in 1996. A few pockets are merchantable along with a couple lower stocked areas. Most of the stand is in a valley. Small pocket of planted red pine included at the south end (<1 acre).																																																		
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15	4131 - Aspen, Oak	Poletimber Medium	57.6	47		N/A	Mixed stand with quaking aspen and pin oak regenerating from a harvest done in 1975. Understory is pretty dense, some open areas in the canopy. Some pine in the NW corner, aspen is poor quality.																																																																				
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16	330 - Low-Density Trees	Nonstocked	1.7			No	Small open area with cherry and sweet fern.																																																																				
17	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	26.8	104	81-110	N/A	Mixed white pine stand with an oak component, white pine of all sizes. More oak present in the overstory at the southwest end, a couple aspen pockets also.																																																																				
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18	330 - Low-Density Trees	Nonstocked	8.6			No	Pipeline corridor, filling in with oak and jack pine.																																																																				
19	310 - Herbaceous Openland	Nonstocked	0.9		Immature		Gas well, Breitburn Operating St. Charlton 5-3.																																																																				
20	4125 - Black, N. Pin Oak	Sawtimber Well	11.0	93	51-80	N/A	Stand thinned in 2015, residual BA was 70, all merchantable aspen was removed. Pockets of advanced regeneration in addition to some regeneration from the most recent harvest. The oak overstory oak is declining/dying out, should harvest now.																																																																				
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21	42110 - Planted Red Pine	Poletimber Well	3.2	24	51-80	N/A	Red pine planted in 1998, minor component of jack pine, white pine, and northern pin oak intermixed. A few scattered log sized oak. Red pine is just becoming merchantable, can get 1 stick out of most trees.																																																																				
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22	4199 - Other Mixed Upland Deciduous	Sapling Medium	36.4	7	Immature	N/A	Stand harvested in 2015, residual scattered oak and pine left in addition to two retention islands. Heavy browse in some areas.																																																																								
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23	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	45.9	47	51-80	N/A	Stand was previously cut in 1975, looks like not everything was cut as there are older, larger trees scattered throughout. This is a variable stand, some areas are pine dominated (south) while others are oak/aspens dominated (north). Some decline is observed in the jack pine.																																																																								
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24	310 - Herbaceous Openland	Nonstocked	0.9				Gas well, Breitburn Operating St. Charlton 9-3.																																																																								
25	3102 - Grass	Nonstocked	1.2				Gas well, Breitburn Operating St. Charlton 12-3.																																																																								
26	4131 - Aspen, Oak	Sawtimber Well	7.7	78	81-110	N/A	Skinny stand of mixed aspen and oak along Bear Lake subdivision. North end is on a downslope to adjacent small lake with houses on it.																																																																								
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27	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	5.0	24	51-80	N/A	Red pine planted in 1998 to replace some of the native pine that was cut in an aspen final harvest. Mix of planted pine and natural regenerated areas, borderline sapling/pole stand.																																																																								
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30	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	9.9	6	Immature	N/A	Harvested in 2016, nice mixed stand with a good pine component. Scattered white pine and red pine were left during the harvest. Some areas with heavy deer browse on the red maple and oak.																																																						
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31	4131 - Aspen, Oak	Sapling Well	2.2	24	Immature	N/A	Harvested in 1996 with adjacent stands, this portion not was planted. Mostly an aspen/oak mix with some jack pine.																																																						
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Jack Pine	5	Sapling	4																																																										
32	4131 - Aspen, Oak	Poletimber Well	22.6	44	51-80	N/A	Stump sprout oak mixed with aspen, some open areas still filling in. Overall a pretty poor quality stand.																																																						
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33	42110 - Planted Red Pine	Poletimber Well	5.2	24	51-80	N/A	Red pine planted in 1998, currently reaching merchantability.																																																						
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34	3303 - Mixed Low Density Trees	Nonstocked	7.2			No	Open grown mix of jack pine, cherry, aspen, oak, and serviceberry.																																																						
35	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, Breitburn Operating St. Charlton 17-3.																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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36 310 - Herbaceous Openland Nonstocked 1.3 Gas well, Breithurn Operating St. Charlton 3-10.

37 4131 - Aspen, Oak Sapling Well 37.3 26 Immature N/A Final harvested in 1996, a few scattered oak were left. Aspen is poor quality, a few open areas, more oak filling in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	30	Sapling	4	26	Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Quaking Aspen	50	Sapling	4	26				
Jack Pine	7	Sapling/Pole	4	26				
Bigtooth Aspen	10	Sapling/Pole	4					
Red Oak	3	Log	14	95				

38 4131 - Aspen, Oak Poletimber Well 30.4 46 1-50 N/A Better quality aspen mixed with oak, some pine mixed in north of the two track.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	12	Pole	6	46	Beech	Low	5 - 10 feet	Sapling
Bigtooth Aspen	20	Pole	7		Northern Pin Oak	Low	10 - 20 feet	Sapling
Northern Pin Oak	40	Pole	8	46	White Pine	Low	Variable	Sapling
Red Pine	2	Log	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	24	Pole	7	46				
White Pine	2	Log/Pole	10					

39 4125 - Black, N. Pin Oak Sawtimber Poor 86.0 90 1-50 N/A This stand was shelterwood cut in 1996, a lot of oak regeneration underneath mixed with pockets of aspen and maple. Overstory oak is declining, some are dead already. Should remove the overstory while trying to protect the oak regeneration underneath.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	4	Pole/Log	9		White Pine	Low	10 - 20 feet	Sapling
Red Pine	5	Log	11		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Northern Pin Oak	85	Log	13	90	Quaking Aspen	Medium	>20 feet	Sapling
White Oak	1	Log	11		Northern Pin Oak	High	Variable	Sapling
Jack Pine	5	Pole	8		Red Maple	Low	>20 feet	Sapling
					Jack Pine	Low	10 - 20 feet	Sapling

40 42110 - Planted Red Pine Sapling Well 10.6 24 Immature N/A Planted red pine with some pin oak & quaking aspen intermixed. Close to becoming merchantable.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	1	Log	12	
Northern Pin Oak	3	Sapling/Pole	4	
Black Cherry	3	Sapling/Pole	4	
Quaking Aspen	5	Sapling/Pole	4	
Jack Pine	5	Sapling/Pole	4	
Red Pine	83	Sapling/Pole	4	24



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
42	4199 - Other Mixed Upland Deciduous	Sapling Medium	17.7	8	Immature	N/A	Harvested in 2015, a few scattered oak were left. Aspen dominated at the north end, transitions to oak/red maple stump sprouts at the south end. Extreme deer browse on oak and maple under browse height.																																																																
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43	4199 - Other Mixed Upland Deciduous	Sapling Well	23.4	8	Immature	N/A	Stand harvested in 2015, a few oak and pine left as residual. Aspen dominated on the west side of the pipeline, south half is oak dominated, and the north end is more of a mix.																																																																
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44	4131 - Aspen, Oak	Sapling Poor	12.4	26	Immature	N/A	Harvested in 1996 with stand 37, was previously coded as a U type. Low stocked mix of aspen, oak, and jack pine. Heavy deer browse on the oak that is filling in.																																																																
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45	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	4.9	24	51-80	N/A	Harvested in 1996 and planted in 1998. Red pine is just entering pole size class, natural regeneration portion of the stand is a little smaller diameter.																																																																
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48	3102 - Grass	Nonstocked	14.8			No	Powerline ROW.																																																		
49	4131 - Aspen, Oak	Poletimber Well	16.5	46		N/A	Poor quality aspen stand with an oak component, good amount of jack pine in the northwest by the gas well as well as some open areas near there.																																																		
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50	42120 - Planted Jack Pine	Poletimber Well	132.3	42	51-80	N/A	Jack pine planted in 1979, areas of aspen and oak mixed in. A few large diameter, relic red pine found throughout. Some self thinning going on in spots, some areas with larger trees that look like they were planted around. Hold for a more merchantable stand.																																																		
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52	310 - Herbaceous Openland	Nonstocked	1.1				Gas well, Breitburn Operating St. Charlton 6-10.																																																		
53	4132 - Aspen, Jack Pine	Sapling Poor	6.7	26	Immature	N/A	Harvested in 1996 with adjacent shelterwood cut. Previously was coded as a U type, has grown in with aspen, oak, and jack pine. North half is more aspen/oak and south half is more open grown jack pine.																																																		
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54	310 - Herbaceous Openland	Nonstocked	1.2				Gas well, Breitburn Operating St. Charlton 14-10.																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
55	4199 - Other Mixed Upland Deciduous	Sapling Poor	23.2	6	Immature	N/A	Harvested in 2016, pretty patchy regeneration, poor quality aspen, north half more open. Does not meet minimum stocking requirements. Regeneration survey resulted in 550 total TPA (238 aspen, 174 cherry, 73 oak, 64 jack pine). Old comments indicate this was a moderate to well stocked jack pine stand with some semi-open gaps especially in the north end.																																								
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56	330 - Low-Density Trees	Nonstocked	26.0	0	Unspecified	No	Harvested in 2015, heavy browse, not regenerating well in most areas. West finger has a couple aspen pockets. Old Rx comments state that this stand was a low to moderately stocked stand of jack pine, pin oak, and aspen with some mortality evident. Regeneration survey failed with a total of 350 TPA (212 cherry, 110 aspen, 17 oak, and 8 jack pine).																																								
57	42120 - Planted Jack Pine	Sapling Well	36.7	27	Immature	N/A	Jack pine planted in 1995, close to becoming a merchantable stand. Some aspen and oak mixed throughout, also a couple of wet pockets. Small inclusion of mature jack pine in NW corner of the stand on the west side of the snowmobile trail.																																								
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58	310 - Herbaceous Openland	Nonstocked	2.3				Gas well, Breitburn Operating St. Charlton 9-10.																																								
59	310 - Herbaceous Openland	Nonstocked	2.2			No	Old well site, no longer used.																																								
60	42110 - Planted Red Pine	Poletimber Well	30.9	38	111-140	N/A	Red pine planted in 1984, a few log sized red pine scattered throughout that they must have planted around. Aspen and oak also found mixed in.																																								
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61	4133 - Aspen, Mixed Pine	Sapling Well	84.1	28	Immature	N/A	Harvested in 1994, looks like red and white pine were left. This stand has a good conifer component, mostly in the south half. Stand is variable, some areas more oak dominated and others more aspen. A few small, pothole wetland areas in the stand, and a larger one adjacent (stand 69), some beaver activity along this edge.																																								
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62	6233 - Wet Meadow	Nonstocked	1.9			No	Unsure of ground cover underneath the ice, assume grasses. A few shrubs along the edge of the stand.																																								



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63	310 - Herbaceous Openland	Nonstocked	1.5				Gas well, Breitburn Operating St. Charlton 10-10.																																															
64	4133 - Aspen, Mixed Pine	Sapling Well	15.6	16	1-50	N/A	This stand was harvested in 2006, looks like all pine was left. Dense aspen regeneration underneath the pine, some jack pine regeneration near Old State Rd.																																															
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68	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, Breitburn Operating St. Charlton 8-10.																																															
69	622 - Lowland Shrub	Nonstocked	10.9			No	Lowland shrubs with a few scattered pine and aspen.																																															
71	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	23.9	92	51-80	N/A	Mixed pine stand with aspen pockets, some scattered XL red pine. Jack pine and oak are on the decline, good oak understory in heavy pine areas. Small wet drainage in the SE corner along Old State Rd.																																															
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72	122 - Road/Parking Lot	Nonstocked	6.3			No	Old State and Bear Lake Road.																																															
74	310 - Herbaceous Openland	Nonstocked	1.1	0			Gas well, Breitburn Operating St. Charlton 2-10.																																															
75	4123 - Red Oak	Sawtimber Well	6.3	95	81-110	N/A	This was designated as retention when stand 5 was harvested. Nice quality oak stand.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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78	4130 - Aspen	Sapling Well	10.1	11	Immature	N/A	Harvested in 2011, everything was cut except red and white pine. Good regeneration, now 10-20ft tall.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	10	Sapling	2	
Red Maple	10	Sapling	1	
Bigtooth Aspen	5	Sapling	2	
Quaking Aspen	65	Sapling	2	11
White Pine	1	Pole/Log	9	
Black Cherry	8	Sapling	1	
Red Pine	1	Log	12	