



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52023

Entry Year 2026

Acreage: 1,105

County: Otsego

Management Area: High Sand Plains

Stand Examiner: Zach Crew

Legal Description:

T30N R01W sections, 34, 35, and 36

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:

Graycalm and Lindquist sands dominate the southern portion of the compartment. Blue Lake and Mancelona loamy sands become prevalent as you go north and west in the compartment.

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

There is heavy Oil and Gas activity in this compartment and the surrounding area. State land accounts for roughly 60 percent of the 3 sections. There is heavy recreational use around Big Bear Lake and via the snowmobile and ORV trails. The majority of private ownership in the area is centered around Big Bear Lake.

Unique Natural Features:

Big Bear Lake and the associated recreational use.

Archeological, Historical, and Cultural Features:

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

Special Management Designations or Considerations:

Two SCA's in this compartment surround both Bear Lake Campgrounds.

Watershed and Fisheries Considerations:

This compartment contains a portion of Big Bear Lake and is adjacent to Little Bear Lakes. These lakes have cool- and warmwater fish communities. Big Bear Lake is stocked with walleye and Great Lakes-strain muskellunge, and has a public access at the State Forest Campground. Little Bear Lake has an unimproved, sandy access, and is fished primarily by local residents. The prescribed management actions are appropriate for the protection of these waterbodies.

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 in these treatments for mast production for deer, wild turkey and grouse.

Mineral Resource and Development Concerns and/or Restrictions

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. Nearly 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. The compartment is on the southern edge of the Silurian reef trend, a highly productive oil & gas play. The nearest reef well is one mile north, and potential for reef discoveries beneath the compartment is considered low. There is no known potential for metallic minerals in this part of the state.

Vehicle Access:

Good Access to the compartment via County Roads and Oil & Gas development roads.

Survey Needs:

None

Recreational Facilities and Opportunities:

Big Bear Lake Campground, and Big Bear Lake Point Campground and associated recreational uses. Atlanta-Gaylord Snowmobile connector and ORV trail run through the compartment.

Fire Protection:

Most stands in this compartment do not exhibit characteristics that would be conducive to large scale fire potential. However there is still the potential for smaller localized fires in the area, specially after any red pine plantings.

Additional Compartment Information:

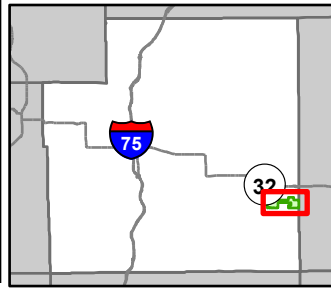
The following reports from the Inventory are attached:

- 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**

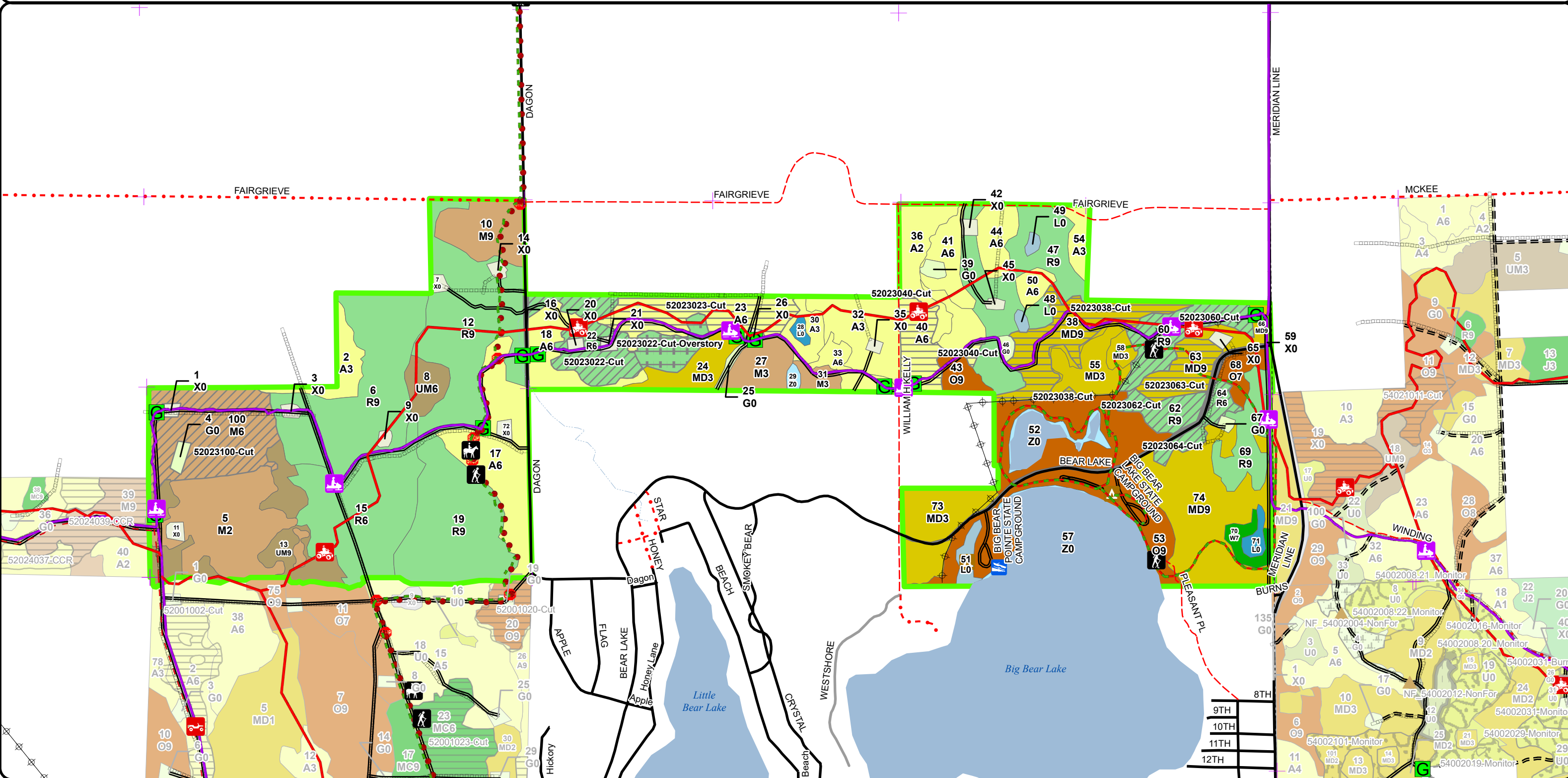
Cover Type & Treatments Map



Compartment: 52023
 T30N, R1W, Sec: 34-36
 County: Otsego
 Unit: Gaylord
 Mgmt Area: High Sand Plains
 YOE: 2026
 Acres: 1104.8 GIS Calculated
 Examiner: Zach Crew
 Map Revised: 09/25/2024
 Map Phase: Post Review

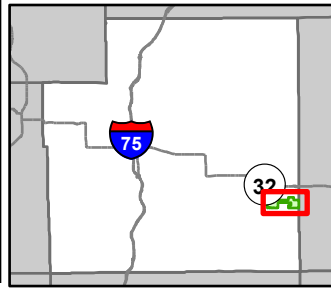


- Berms
- Gate
- Boating Access Site
- Campground
- Sign
- Remonumented Section Corners
- Hiking Trails
- Horse Trails
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated ORV Routes
- Designated Snowmobile Trails
- Designated ATV Trails
- 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
- Intermittent Stream
- Lake/Pond
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- 790 - Other Bare/Sparsely Vegetated



9TH	
10TH	
11TH	
12TH	

Stand Boundary Map



Compartment: 52023
 T30N, R1W, Sec: 34-36
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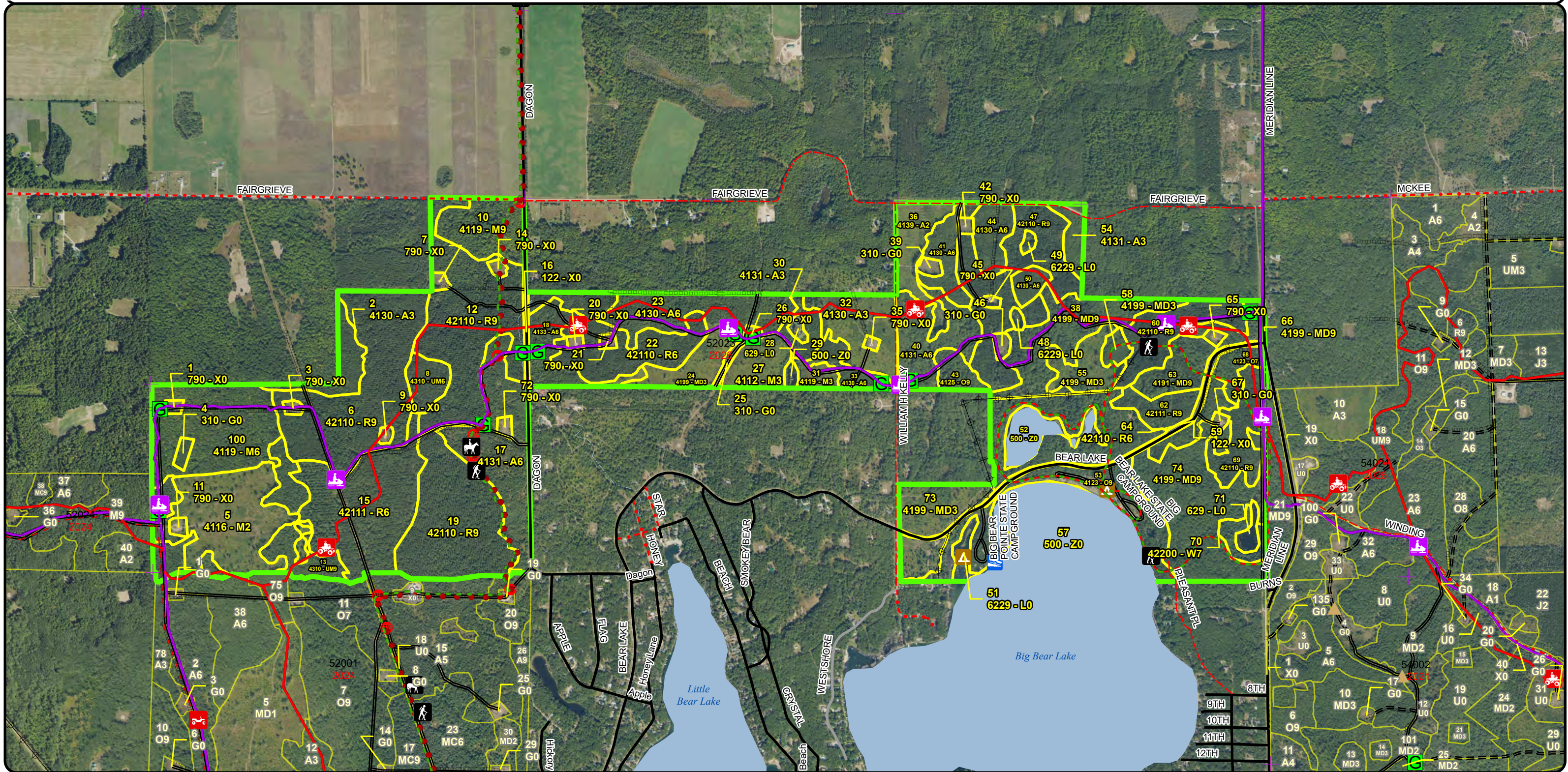


- Berms
- Gate
- Boating Access Site
- Campground
- Sign
- Remonumented Section Corners
- Hiking Trails
- Horse Trails

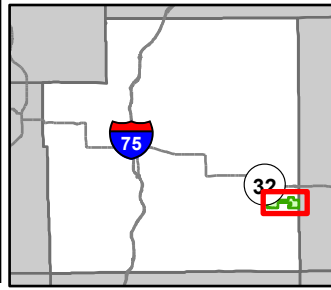
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated ORV Routes
- Designated Snowmobile Trails
- Designated ATV Trails

- 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
- Intermittent Stream
- Lake/Pond

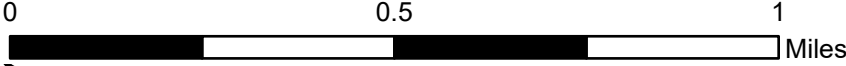
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Stand Boundaries
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
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- 790 - Other Bare/Sparsely Vegetated



Special Conservation Areas & Site Conditions Map



Compartment: 52023
 T30N, R1W, Sec: 34-36
 County: Otsego
 Unit: Gaylord
 Mgmt Area: High Sand Plains
 YOE: 2026
 Acres: 1104.8 GIS Calculated
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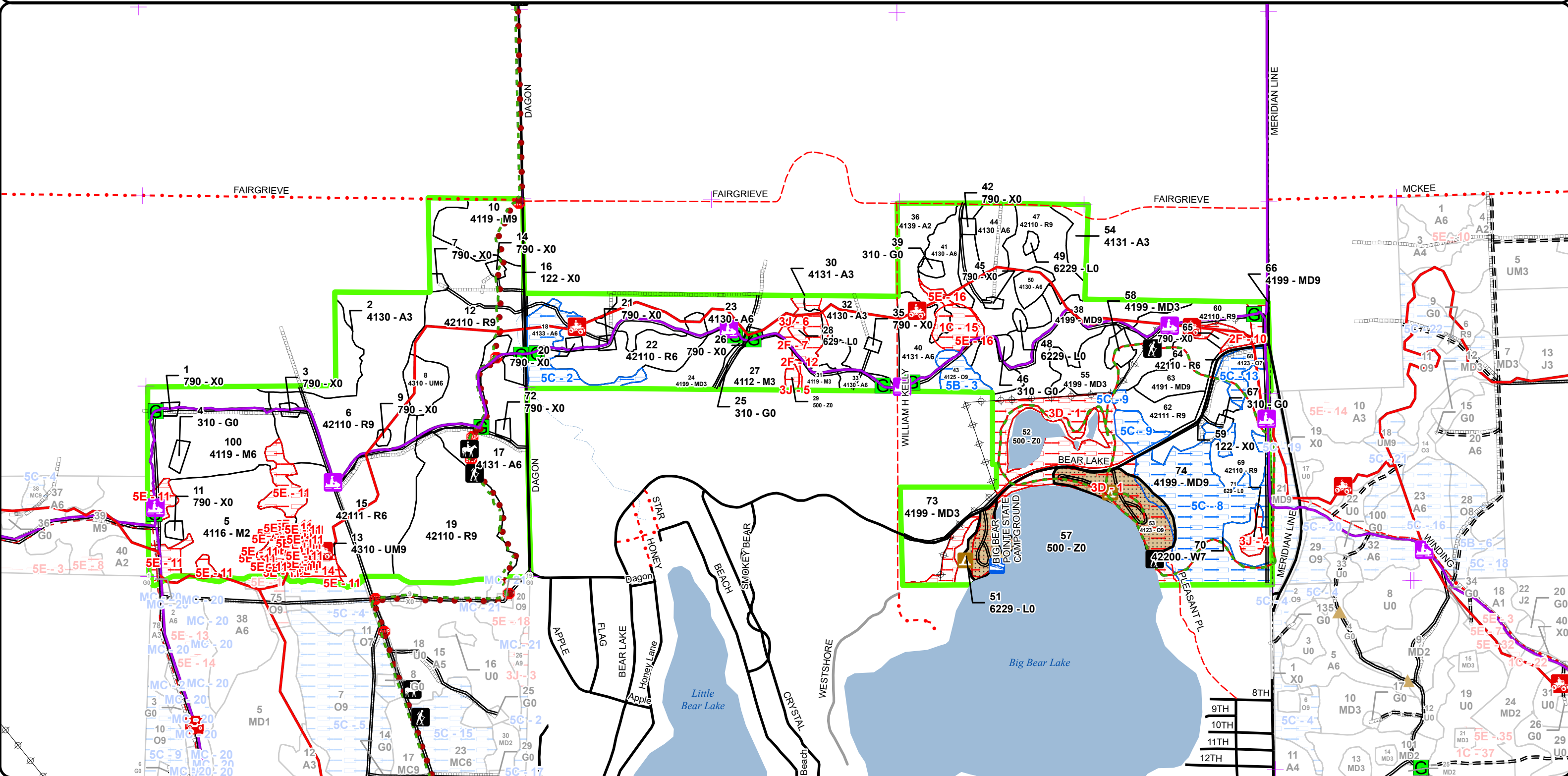


- Berms
- Gate
- Boating Access Site
- Campground
- Sign
- Remonumented Section Corners
- Hiking Trails
- Horse Trails
- ORV Trails
- ORV Routes

- Snowmobile Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated ORV Routes
- Designated Snowmobile Trails
- Designated ATV Trails
- 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
- Intermittent Stream
- Lake/Pond
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- SCA
- Available w/ Constraints
- Unavailable

- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- State Forest Campground



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	39	17	0	79	56	16	0	0	0	0	0	0	0	0	0	0	0	207
Bare/Sparsely Vegetated	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Shrub	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	0	50	4	0	0	0	0	0	0	21	54	32	0	0	0	0	0	0	161
Northern Hardwood	0	63	0	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0	129
Oak	0	0	0	0	0	0	0	0	0	14	0	72	0	0	0	0	0	0	86
Red Pine	0	0	0	0	0	0	0	364	0	0	0	0	0	0	0	0	0	0	364
Upland Mixed Forest	0	0	0	0	0	0	0	9	0	0	0	29	0	0	0	0	0	0	37
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Total	114	152	21	0	79	56	16	373	67	35	54	133	0	0	0	0	0	6	1103



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 23

Total Compartment Acres: 1,105

Commercial Harvest - 208
 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	46	0	0	0	0	0	0	0	0	46
Mixed Upland Deciduous	44	0	0	0	0	0	0	0	0	44
Northern Hardwood	0	0	0	0	46	0	0	0	0	46
Red Pine	0	0	0	0	0	61	11	0	0	72
Total	90	0	0	0	0	107	11	0	0	208

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	208	0	0	0	0	0	0	0	0	208
Next Step	0	0	0	0	0	0	101	0	0	101
Total	208	0	0	0	0	0	101	0	0	308



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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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Proposed Treatments:

22	52023022-Cut	22.7	42110 - Planted Red Pine	Poletimber Well	61	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin this portion of the stand with a target residual BA of 120-140. In areas where desirable advanced oak regen dominates and the BA is under 120 thin stand with a target residual BA of 60-80 to allow advanced oak regen to continue to develop.

Next Step
Treatments:

Acceptable
Regen:

Other Include appropriate trail protection specs.

Comment: Oak wilt specs apply no exceptions.

Site Condition:

Proposed Start Date: 10/1 /2025

22	52023022-Cut- Overstory	10.8	42110 - Planted Red Pine	Poletimber Well	61	141- 170	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Remove all overstory red pine greater than 8" at dbh to allow for continued development of advanced regen in the understory.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable A mix of upland deciduous species including aspen, red maple, oak, and cherry that meets minimum stocking criteria.

Other Include appropriate trail protection specs, be sure to only allow cut to length harvesting in order to protect the advanced regen as much as possible.

Oak wilt specs apply no exceptions.

Site Condition:

Proposed Start Date: 10/1 /2025

23	52023023-Cut	29.3	4130 - Aspen	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest stand. Standard area retention. Retention pockets should be between .25 to .5 acre and scattered around the stand. A minimum 3 retention islands will be necessary. Focus retention around areas with desirable advanced regen such as oak and white pine.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable A mix of species dominated by aspen that meets minimum stocking criteria.

Other Include appropriate trail protection specs.

Comment: Include oak wilt specs with exceptions

Include drumming log specs.

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
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38	52023038-Cut	30.4	4199 - Other Mixed Upland Deciduous	Sawtimber Well	105	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest stand, focus retention in 1/2 acre pockets around recreation trails in the stand. Protect understory white pine. Do not cut white oak. Mark one clump of 3 to 5 large crowned oak to leave at a rate of 1 per 3 acres.

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

Acceptable A mix of species that is at least 5% oak but dominated by aspen.
Regen:

Other Include appropriate trail protection specs
Comment:

- Include oak wilt no exceptions specs
- Include 4" spec to protect advanced regen
- Include processor cut only spec.
- Include drumming log specs.

Site Condition:

Proposed Start Date: 10/1 /2025

40	52023040-Cut	16.7	4131 - Aspen, Oak	Poletimber Well	37	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest stand. Do not cut pine. Retention has already been coded in MIFI (see site condition layer). Mark one clump of 3-5 large crowned oak to leave at a rate of 1 per 3 acres.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable A mix of deciduous species dominated by aspen and at least 5% oak.
Regen:

Other Include appropriate trail protection specs.
Comment:

- Include 4" spec to protect advanced regen
- Utilize drumming log specs
- Oak wilt specs apply no exceptions
- Include processor cut only spec to help protect advanced regen.

Site Condition:

Proposed Start Date: 10/1 /2025

60	52023060-Cut	20.5	42110 - Planted Red Pine	Sawtimber Well	61	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Mark to cut red pine. In heavily stocked areas (greater than 160 BA) target residual should be 120 BA. In areas with lesser stocking with a well developed understory of desirable species (oak/aspen/maple) target residual should be 80 BA. Include appropriate trail protection specs.

Include oak wilt specs with no exceptions.

Next Step
Treatments:

Acceptable
Regen:

Other The purpose of this cut is to begin to open the stand canopy to allow sunlight to simulate understory recruitment of desirable species (oak/aspen/pine). We will continue to gradually remove the red pine through successive YOE's in order to promote a mixed deciduous stand
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
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62	52023062-Cut	10.0	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	61	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Mark to cut red pine. Where it is dominant target a residual BA of 100. Where the red pine is suppressed and over topped by other species remove it. Only mark species other than red pine to allow for equipment operations. Old rows do exist in this stand but are squirrely, may need to mark additional trees to make operations viable. No tree length skidding is to be allowed. Encourage cut in snow off conditions.

Specs: Include oak wilt specs no exceptions.

Include appropriate trail protection specs

Next Step
Treatments:

Acceptable
Regen:

Other The purpose of this cut is to begin to open the stand canopy to allow sunlight to simulate understory recruitment of desirable species (oak/aspens/pine). We will continue to gradually remove the red pine through successive YOE's in order to promote a mixed deciduous stand

Site Condition:

Proposed Start Date: 10/1 /2025

63	52023063-Cut	13.5	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	84	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Final harvest stand. Mark one clump of 3 to 5 large crowned oak to leave at a rate of 1 per 3 acres. Include two 1/4 to 1/2 acre retention island centered on the hiking trail. Incorporate some red pine into these retention islands where possible.

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

Acceptable A mix of mainly deciduous species dominated by aspen but that contains at least 10% oak.
Regen:

Other Include appropriate trail protection specs

Comment: Include oak wilt specs with no exceptions

Include 4" spec to protect advanced regen.

Include drumming log specs.

Site Condition:

Proposed Start Date: 10/1 /2025

64	52023064-Cut	7.7	42110 - Planted Red Pine	Poletimber Well	61	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Mark to cut red pine with a target residual BA of 100. Only cut other species if they interfere with equipment operations. Rows are very squirrely so may need to mark additional trees for forwarding access.

Include oak wilt specs

Include appropriate trail protections specs.

Next Step
Treatments:

Acceptable
Regen:

Other The purpose of this cut is to begin to open the stand canopy to allow sunlight to simulate understory recruitment of desirable species (oak/aspens/pine). We will continue to gradually remove the red pine through successive YOE's in order to promote a mixed deciduous stand. No tree length skidding is to be allowed. Encourage cut in snow off conditions. Include Oak wilt specs no exceptions.

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
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100 52023100-Cut	46.1	4119 - Mixed Northern Hardwoods	Poletimber Well	79	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Mark to cut stand with a target residual BA of 75. Identify trees during marking that could develop into future large crowned seed producers.
Specs: Attempt to open the crown roughly ~33 feet around these trees to allow for rapid crown development. Limit the marking of beech as much as possible, let it die standing. These future seed trees should be sugar maple, red maple, oak, and basswood species.

Next Step
Treatments:

Acceptable
Regen:

Other Include appropriate trail protection specs.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

Total Treatment 207.7
Acres Proposed:

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew: Examiner

Compartment: 23
Year of Entry: 2026



Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
207	174	16	18

Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions						
					5B	5C	1C	2F	3D	3J	5E
207	174	174	16	18	Aspen						
15	15	15	0	0	Bare/Sparsely Vegetated						
7	7	7	0	0	Herbaceous Openland						
11	6	6	0	4	Lowland Shrub						
161	99	99	54	7	Mixed Upland Deciduous						
130	129	129	0	1	Northern Hardwood						
86	0	0	20	66	7	14			66		
364	364	364	0	0	Red Pine						
37	8	8	0	29	Upland Mixed Forest						
10	10	10	0	0	Urban						
71	70	70	0	1	Water						
6	6	6	0	0	White Pine						
1,105	889	889	90	126	7	84	8	16	66	6	31
	80%	80%	8%	11%	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	3D: Recreational / Scenic values	66	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Would like to hold this stand until the west portion of stand 22 is ready to be replanted, would like to include this area in the planting when it happens.							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew: Examiner

Compartment: 23
Year of Entry: 2026



3	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Advanced white pine regen, canopy stocking is already low enough to continue to allow for understory development.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2F: Too steep	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew: Examiner

Compartment: 23
Year of Entry: 2026



9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2F: Too steep	7	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Number of different influences from various rec trails, plus slopes in such a small acreage, make this stand undesirable to be managed.							
11	Unavailable	5E: Long-Term Retention	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold and treat with adjacent stands to the south when they are ready							
14	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	1C: Other dept or div proc/practices	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stick nest							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew: Examiner

Compartment: 23
Year of Entry: 2026



16	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
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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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
1	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0			State Charlton 1-34																																																													
2	4130 - Aspen	Sapling Well	10.5	16	Immature	N/A	Stand final harvested in 2007 as part of Lone Turkey Hardwood sale. Good regen. Lots of deer sign, heavy browse noted on understory shrubs.																																																												
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4	310 - Herbaceous Openland	Nonstocked	1.7			No																																																													
5	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	46.3	6	Immature	N/A	Middle portion of stand was salvaged in fall of 2019 after storm damage. This area is still part of the original stand but has a different regeneration monitoring treatment on it.																																																												
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6	42110 - Planted Red Pine	Sawtimber Well	65.1	61	111-140	N/A	Stand thinned and completed in 2008 as part of Comp 34 RP. Responding to thinning well. 3rd row thinning 15 years ago, must of been sparse stocking to start still only a BA of 130. A few pockets (1/2 acre or less of fully stocked oak regen). One pocket of mature white pine in the west part of the stand just east of the pipeline and south of the center section corner.																																																												
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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	4310 - Pine, Oak Mix	Poletimber Well	8.5	61	81-110	N/A	Part of the plantation where they tried to plant around existing oak. Now more of a mixed stand with some shaded out red pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole/Sapling	5		White Pine	Trace	>20 feet	Sapling
Red Pine	50	Pole/Log	9	61	Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	15	Log/Pole	10		Beech	Low	5 - 10 feet	Sapling
Red Maple	5	Pole/Sapling	5		Red Maple	Low	5 - 10 feet	Sapling
Black Cherry	5	Pole/Sapling	5		Oak (spp.)	Low	5 - 10 feet	Sapling
Red Oak	20	Log/XLog	14	92				

9	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9		Immature		Gas Well State Charlton 3-34
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10	4119 - Mixed Northern Hardwoods	Sawtimber Well	20.4	74	81-110	N/A	Stand thinned in December of 2007 as part of Lone Turkey Hardwoods. Small pocket of aspen in the NW corner of the stand. Stocking is incredibly poor in the west half of the stand, improves drastically in the east.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	2	Log	12		Sugar Maple	Medium	Variable	Sapling
Bigtooth Aspen	10	Log/Pole	10		Beech	Low	< 5 feet	Sapling
Red Pine	18	Log/Pole	12		Ironwood	Medium	5 - 10 feet	Sapling
Northern Pin Oak	2	Log	12					
Basswood	13	Log/Pole	12					
Sugar Maple	55	Log/Pole	12	74				

11	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.3				State Charlton 5-34
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12	42110 - Planted Red Pine	Sawtimber Well	60.7	61	81-110	N/A	Stand thinned as part of Comp 34 RP in november of 2008. Stocking is spotty in some spots.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	94	Log/Pole	11	61	Bigtooth Aspen	Low	10 - 20 feet	Sapling
Red Maple	2	Pole/Log	9		Cherry (spp.)	Low	5 - 10 feet	Sapling
White Pine	1	Log	11		Ironwood	Trace	5 - 10 feet	Sapling
Red Oak	1	Log/XLog	14		Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	1	Pole	7		Beech	Trace	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	1	Log	12		Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
13	4310 - Pine, Oak Mix	Sawtimber Well	28.9	105	111-140	N/A	"Dukes Mix", a mix of nice log size wp, rp, and red oak in most areas, some intermixed paper birch, red maple, and aspen. Lots of nicely developing pockets of wp in the understory. The rest of the understory dominated by beech and then some red maple.																																																																					
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15	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	53.7	61	111-140	N/A	Lots of variety in tree size, not sure why that is since according to records it was planted at the same time as the rest of the RP in the compartment. Stand thinned in the fall of 2017 (52-029-16-01). Residual BA ~ 110. Lots of nice pockets of well developed oak saplings.																																																																					
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16	122 - Road/Parking Lot	Nonstocked	2.1			No	Dagon Road																																																																					
17	4131 - Aspen, Oak	Poletimber Well	40.4	37	1-50	N/A	Aspen stand starting to develop into pole timber but not there yet. Good stocking, lots of saps. Quality decreases the further you go south with poor form and slower growth rates. A couple of sparse pockets south of stand 72 as well. Stand harvested in 1987.																																																																					
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18	4133 - Aspen, Mixed Pine	Poletimber Well	15.8	55	51-80	N/A	The red pine in this stand was planted in 1962. Doesn't appear that it survived very well, lots of areas with underdeveloped aspen and red maple coming in, some oak as well.																																																											
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19	42110 - Planted Red Pine	Sawtimber Well	51.4	61	111-140	N/A																																																												
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20	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9			State Charlton B1-35																																																												
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22	42110 - Planted Red Pine	Poletimber Well	33.5	61	141-170	N/A	Planted Red Pine in 1962. Stocking poor in some areas, mainly east of the gas wells. Areas surrounding the gas wells are fully stocked.																																																											
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23	4130 - Aspen	Poletimber Well	29.3	45	81-110	N/A	Starting develop into pole timber, it will probably be another 10 or 20 years before the trees are ready to be harvested, good regen and growth.																																																																								
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24	4199 - Other Mixed Upland Deciduous	Sapling Well	13.1	7	Immature	N/A	Oak stand that was thinned in 2007 as part of Vista Veue Oak, where oak was cut it is sprouting and regenerating. Harvested fall 2017. Scattered oak and white pine left. Low sweet blueberry prevalent.																																																																								
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25	310 - Herbaceous Openland	Nonstocked	1.5			No																																																																									
26	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.2				State Charlton B3-35																																																																								
27	4112 - Maple, Beech, Cherry Association	Sapling Well	12.6	7	Immature	N/A	Almost pure oak stand, scattered white pine and aspen. Thinned in the fall of 2007 as part of Vista Veue Oak sale. Lots of oak regen on the eastern slope of the stand. Harvested Fall 2017, scattered oak and white pine left.																																																																								
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28	629 - Mixed non-forested wetland	Nonstocked	1.5			No																																																																									
29	500 - Water	Nonstocked	1.4			No	Wet and seasonally flooded depression																																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
30	4131 - Aspen, Oak	Sapling Well	6.6	30	1-50	N/A	Stand surrounding small wet area, appears to be in the early stages of development, mixture of aspen oak and birch.																																																							
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31	4119 - Mixed Northern Hardwoods	Sapling Well	4.6	7	Immature	N/A	Oak thinned last YOE, not a whole lot of regen other than some aspen and red maple stump sprouts. Harvested fall 2017, scattered oak left throughout, white pine in the understory protected during harvest. Low sweet blueberry prevalent.																																																							
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35	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.8				Oil pump, State Charlton B4 -35																																																							
36	4139 - Aspen, Mixed Deciduous	Sapling Medium	16.3	5	Immature	N/A	Harvested in fall of 2019, scheduled to be planted to red pine. Dropped planting treatment due to approved variance 12/22.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
38	4199 - Other Mixed Upland Deciduous	Sawtimber Well	32.3	105	51-80	N/A	Species thin completed 10/30/97, all species cut except for oak and pine. Compared to adjacent stands that were left alone, the species thin didn't accomplish much silviculturally in this stand, aspen and red maple are borderline merchantable, while Oak is over mature and is unlikely to sprout if harvested.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	25	Pole	6	27	Red Pine	Trace		5 - 10 feet	Sapling
Red Pine	1	Log	13		White Pine	Trace		10 - 20 feet	Sapling
White Oak	1	Log	12		Cherry (spp.)	Low		5 - 10 feet	Sapling
White Pine	2	Log/Pole	10		Serviceberry (Juneberry)	Trace		5 - 10 feet	Sapling
Red Maple	20	Pole/Sapling	5		Red Maple	Low		5 - 10 feet	Sapling
Red Oak	51	Log/XLog	13	105	Oak (spp.)	Trace		5 - 10 feet	Sapling
39	310 - Herbaceous Openland	Nonstocked	1.6			No			
40	4131 - Aspen, Oak	Poletimber Well	24.2	37	51-80	N/A	All species removed except for oak in 1987.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Oak	40	Log/XLog	16	105	Red Maple	Low	5 - 10 feet	Sapling	
Red Maple	20	Pole	6		Common Lowbush Blueberry	Trace	< 5 feet	Tall Shrub	
Bigtooth Aspen	40	Pole/Sap/Log	7	37	Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub	
					Oak (spp.)	Low	>20 feet	Sapling	
					White Pine	Trace	10 - 20 feet	Sapling	
					Sugar Maple	Trace	5 - 10 feet	Sapling	
					Serviceberry (Juneberry)	Trace	10 - 20 feet	Sapling	
					Cherry (spp.)	Low	5 - 10 feet	Sapling	
41	4130 - Aspen	Poletimber Well	11.0	42	51-80	N/A	Nicely regenerating aspen stand, couldn't find a cutting record and trees are too small to core so the age is a just a guess.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Oak	2	Log/XLog	14		Oak (spp.)	Trace	10 - 20 feet	Sapling	
Quaking Aspen	10	Pole	7		Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen	77	Pole/Log	8	42	Cherry (spp.)	Low	5 - 10 feet	Sapling	
Paper Birch	3	Pole	6		Beech	Trace	5 - 10 feet	Sapling	
Red Maple	8	Pole	5		Red Maple	Low	5 - 10 feet	Sapling	
42	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		Immature		State Charlton A1-36. Pump jack and hut.		
43	4125 - Black, N. Pin Oak	Sawtimber Well	6.6	87	51-80	N/A	The only difference between this stand and 71 is the presence of a nicely developing white pine understory. Also looks like all the aspen was removed 20 or 30 years ago		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Black/Red (Hybrid) Oak	75	Log/XLog	14	87	Oak (spp.)	Trace	10 - 20 feet	Sapling	
White Pine	2	Log/XLog	14		Red Maple	Low	< 5 feet	Sapling	
Red Pine	5	Log/Pole/XLog	14		Cherry (spp.)	Low	< 5 feet	Sapling	
Red Maple	15	Pole	6		White Pine	Medium	Variable	Sapling	
Bigtooth Aspen	3	Pole	5		Hazelnut (Spp.)	Trace	5 - 10 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
44	4130 - Aspen	Poletimber Well	10.6	42	51-80	N/A	Similar to stand 41, could find no record of cutting so age is a guess																																																																
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46	310 - Herbaceous Openland	Nonstocked	1.6			No	Frost pocket, edges filling in with oak cherry and aspen.																																																																
47	42110 - Planted Red Pine	Sawtimber Well	43.5	61	111-140	N/A	lots of variability in stocking																																																																
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48	6229 - Mixed lowland shrub	Nonstocked	1.0			No	Wet, seasonally flooded depression.																																																																
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50	4130 - Aspen	Poletimber Well	4.6	40		N/A																																																																	
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53	4123 - Red Oak	Sawtimber Well	72.2	105	81-110	N/A	Nice mix of species, majority of stand slopes down towards the bowls in the north or the lake to the south. Bear Lake campground included in the stand.																																																											
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54	4131 - Aspen, Oak	Sapling Well	6.5	16	Immature	N/A																																																												
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55	4199 - Other Mixed Upland Deciduous	Sapling Well	13.3	7	Immature	N/A	Stand Harvested 9/17 as part of Baby Back Red Pine (52-017-16-01). Large wolfy oak left as well as some mixed pine. Per 2024 compartment pre review, will accept current species mix.																																																											
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57	500 - Water	Nonstocked	57.6			No	Big Bear Lake																																																											
58	4199 - Other Mixed Upland Deciduous	Sapling Well	3.5	15	Immature	N/A	Small clear cut portion of previous sale (Big Bear Lake Pine and Oak 52-015-06). Stand cut in 2009. Good looking regen.																																																											
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59	122 - Road/Parking Lot	Nonstocked	8.1			No	Bear Lake Road																																																											



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60	42110 - Planted Red Pine	Sawtimber Well	20.6	61	141-170	N/A	poor quality in the eastern end. better in west. lots of oak saplings in places																																																	
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62	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	10.0	61	111-140	N/A	Planted Pine stand, areas where stocking is poor or trees are heavily suppressed.																																																	
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63	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	13.5	84	111-140	N/A	parts of pine plantation mixed in stand. some areas look thinned in the pine some areas look like all aspen and red maple removed.																																																	
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64	42110 - Planted Red Pine	Poletimber Well	7.7	61	111-140	N/A	Stand thinned 2006, stocking is poor the further away from the road you get. Rows are squirrely																																																	
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65	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1				State Charlton 1-36																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
66	4199 - Other Mixed Upland Deciduous	Sawtimber Well	7.1	84	51-80	N/A	Aspen and red maple removed in 1987. Except left slope down to adjacent red pine uncut.																																												
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67	310 - Herbaceous Openland	Nonstocked	0.9				State Charlton 2-36																																												
68	4123 - Red Oak	Sawtimber Poor	7.1	88	51-80	N/A	Species removal of all aspen and red maple 1987.																																												
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69	42110 - Planted Red Pine	Sawtimber Well	17.8	61	111-140	N/A	Stand thinned 10/17 as part of Baby Back Red Pine Sale (52-017-16-01). Residual BA of 109 post harvest. Red pine seems to be responding decently to the thinning, still quite the lack of understory species post harvest.																																												
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70	42200 - Natural White Pine	Sawtimber Poor	5.8	86	1-50	N/A	wp super canopy...hdwds coming up unerneath																																												
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71	629 - Mixed non-forested wetland	Nonstocked	2.8				No																																												
72	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.2				Gas well site St Charlton 4-34																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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73	4199 - Other Mixed Upland Deciduous	Sapling Well	23.5	7	Immature	N/A	Age is an estimate based upon when the majority of aspen and red maple were removed from the stand. Scattered oak and pine left, low sweet blueberry prevalent.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		4	Sapling	1		Choke Cherry		Medium	< 5 feet	Sapling
Black/Red (Hybrid) Oak		20	Sapling	1		Hazelnut (Spp.)		Low	5 - 10 feet	Tall Shrub
Quaking Aspen		7	Sapling	1		Common Lowbush Blueberry		Medium	< 5 feet	Tall Shrub
Red Pine		5	Log/Pole	10		Sweet Fern		Medium	< 5 feet	Tall Shrub
White Oak		4	Sapling	1						
Northern Pin Oak		5	Sapling	1						
Red Maple		40	Sapling	1	7					
Black Cherry		15	Sapling	1						

74	4199 - Other Mixed Upland Deciduous	Sawtimber Well	54.2	96	81-110	N/A	Species thin conducted in 1997, all species removed except for oak and pine. Portions of the stand had all aspen and red maple removed in 1988 but this has all blended together over the last 40 years and is hard to tell the difference. Didn't do much to help the stand silviculturally, aspen and red maple are still sub merchantable in spots and suppressed in others, and oak is over mature and unlikely to sprout if harvested.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		15	Pole/Sapling	5		Red Pine		Trace	5 - 10 feet	Sapling
Red Oak		52	Log/XLog	14	96	Hazelnut (Spp.)		Trace	5 - 10 feet	Tall Shrub
White Oak		3	Log	12		Red Maple		Low	< 5 feet	Sapling
White Pine		10	Log	12		Red Oak		Trace	< 5 feet	Sapling
Bigtooth Aspen		20	Pole	6	27	White Pine		Low	Variable	Sapling
						Serviceberry (Juneberry)		Trace	10 - 20 feet	Sapling

100	4119 - Mixed Northern Hardwoods	Poletimber Well	46.1	79	111-140	N/A	Selection harvest in stand completed in 2007. Northern hardwood stand, amount of oak gradually increases as you head south. Understory dominated by beech regen post harvest. Common flush of year old hard maple seedlings scattered throughout (6" or less).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		15	Log	12	97	Sugar Maple		Low	< 5 feet	Sapling
Basswood		10	Log	12		Ironwood		Low	5 - 10 feet	Sapling
Beech		20	Pole/Log	8		Red Maple		Low	5 - 10 feet	Sapling
Red Maple		20	Pole/Log	9		Beech		High	10 - 20 feet	Sapling
Quaking Aspen		3	Log	14						
Sugar Maple		30	Pole/Log	9	79					
Bigtooth Aspen		2	Log	14						