



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52144

Entry Year 2022

Acreage: 1,793

County Cheboygan

Management Area: Chandler Hills

Revision Date: 2020-05-04

Stand Examiner: Donald Stacks

Legal Description:

T34N R03W Sections 19, 30, 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:

Blue Lakes loamy sand, Kalkaska sand, and Leelanau loamy sand located on rolling hills in the west half of the compartment, with relatively flat terrain in the east half of the compartment.

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

The compartment consists of three almost entirely contiguous sections of State ownership, from north to south. Several private residences exist adjacent to sections 30 and 31. A small residential subdivision exists west of section 19 in Emmet county.

Unique Natural Features:

None listed.

Archeological, Historical, and Cultural Features:

None listed.

Special Management Designations or Considerations:

The high level of recreational use in and around Weber Lake is a consideration when prescribing stands for potential treatment. A Concentrated Recreation Use SCA has been proposed for the area adjacent to Weber Lake and the State Forest Campground.

Watershed and Fisheries Considerations:

This compartment is within Northern Lake Huron Management Unit. This compartment contains Weber Lake, a trout lake. Weber Lake is annually stocked with 2,500 yearling brown trout. An appropriate buffer should be maintained adjacent to Weber Lake to prevent erosion and to discourage ORV activity along the shoreline area.

Wildlife Habitat Considerations:

This compartment is popular for wildlife-related recreation including hunting for species like deer and turkey. Management in this compartment should take habitat needs for game species like these into consideration. In addition, there is good potential for avian predators like goshawk. Raptor nests should be protected where present. American marten is known to occur in this area and marten habitat specifications should be included when harvests occur once they are developed.

Mineral Resource and Development Concerns and/or Restrictions

An active, state-owned sand/gravel pit, currently leased to the county road commission, is located just east of the compartment in Section 29, and there is good potential for additional sand & gravel development within the compartment. The Antrim Shale is very thin or absent here, and there is no proven potential for production from any other known hydrocarbon-bearing formations in this area. Encana was issued a permit to drill a test well just northeast of the compartment in 2012, but a well was not drilled, and the permit was terminated in 2014. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Vehicle access is good throughout the compartment by means of county, seasonal county, and forest two-track roads.

Survey Needs:

None anticipated on prescribed treatments.

Recreational Facilities and Opportunities:

There are designated snowmobile, ORV, and hiking trails located within the compartment, as well as Weber Lake State Forest Campground.

Fire Protection:

Indian River DNR Field Office is located about 8 miles to the northeast and the Wolverine VFD is located about 5 miles to the southeast of the compartment for wildfire protection.

Additional Compartment Information:

The following reports from the Inventory are attached:

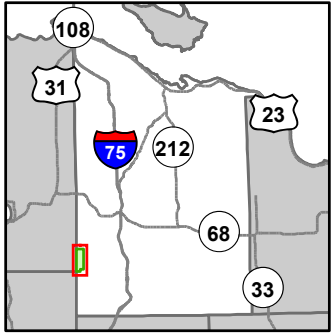
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

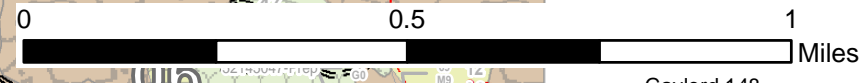
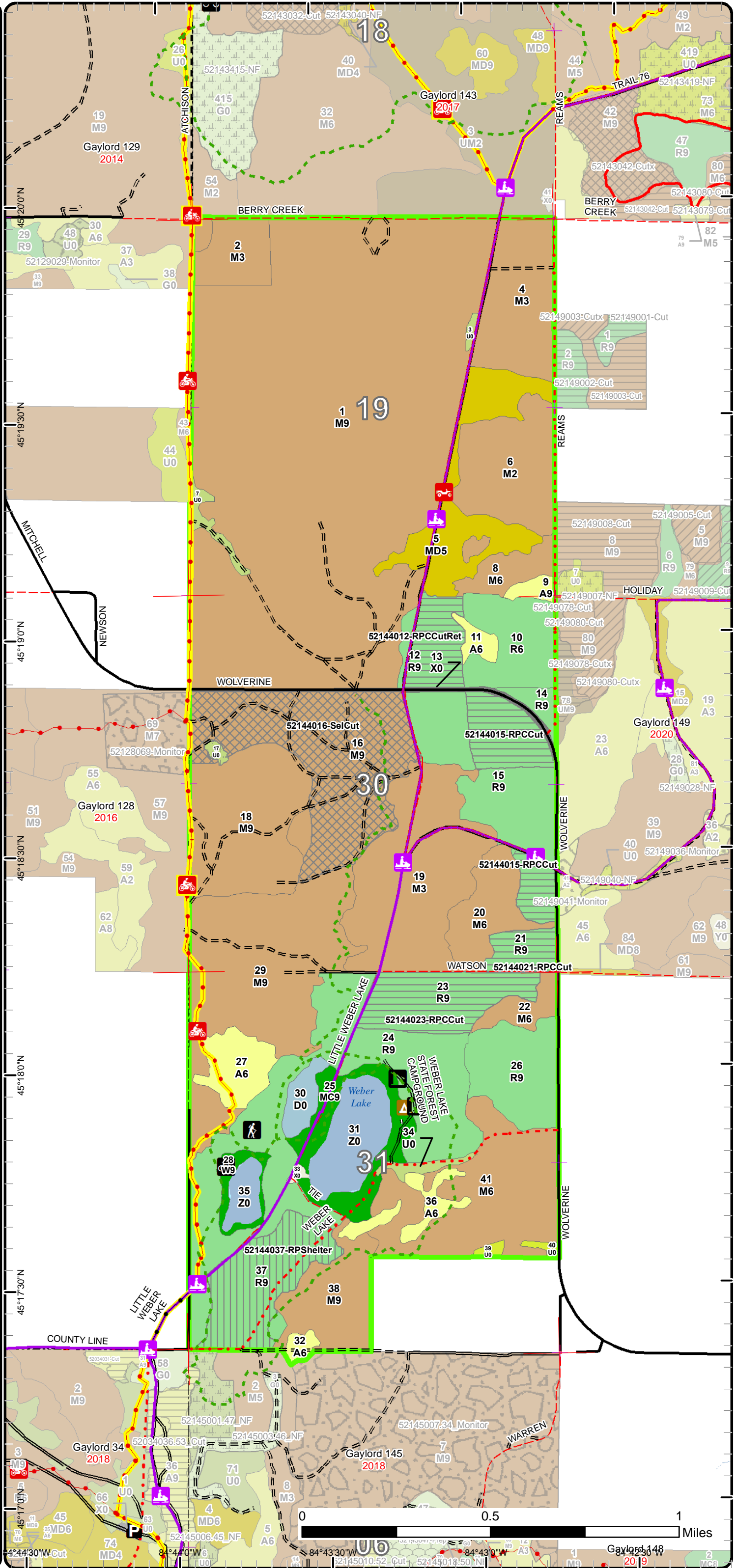
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 144
 T34N, R03W, Sec. 19, 30, 31
 T33N, R03W, Sec. 6
 County: Cheboygan
 Unit: Gaylord
 Mgmt Area: Chandler Hills
 YOE: 2022
 Acres: 1,793 GIS Calculated
 Examiner: Donald Stacks
 Map Revised: 11/20/2020
 Map Phase: Post-Review



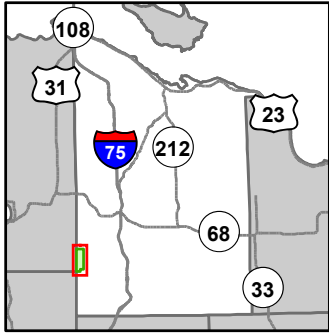
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- 🚶 Hiking Trails
- 🚲 Bike Trails
- 🏍️ Motorcycle Trails (DNR License)
- 🏍️ MCCCT Trails
- 🚙 ORV Routes
- 🚙 Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- ORV License
- ORV License & Trail Permit
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Lake/Pond
- Lakes and Rivers
- 🚽 Toilet
- 🏕️ Campground
- P Parking Lot
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated



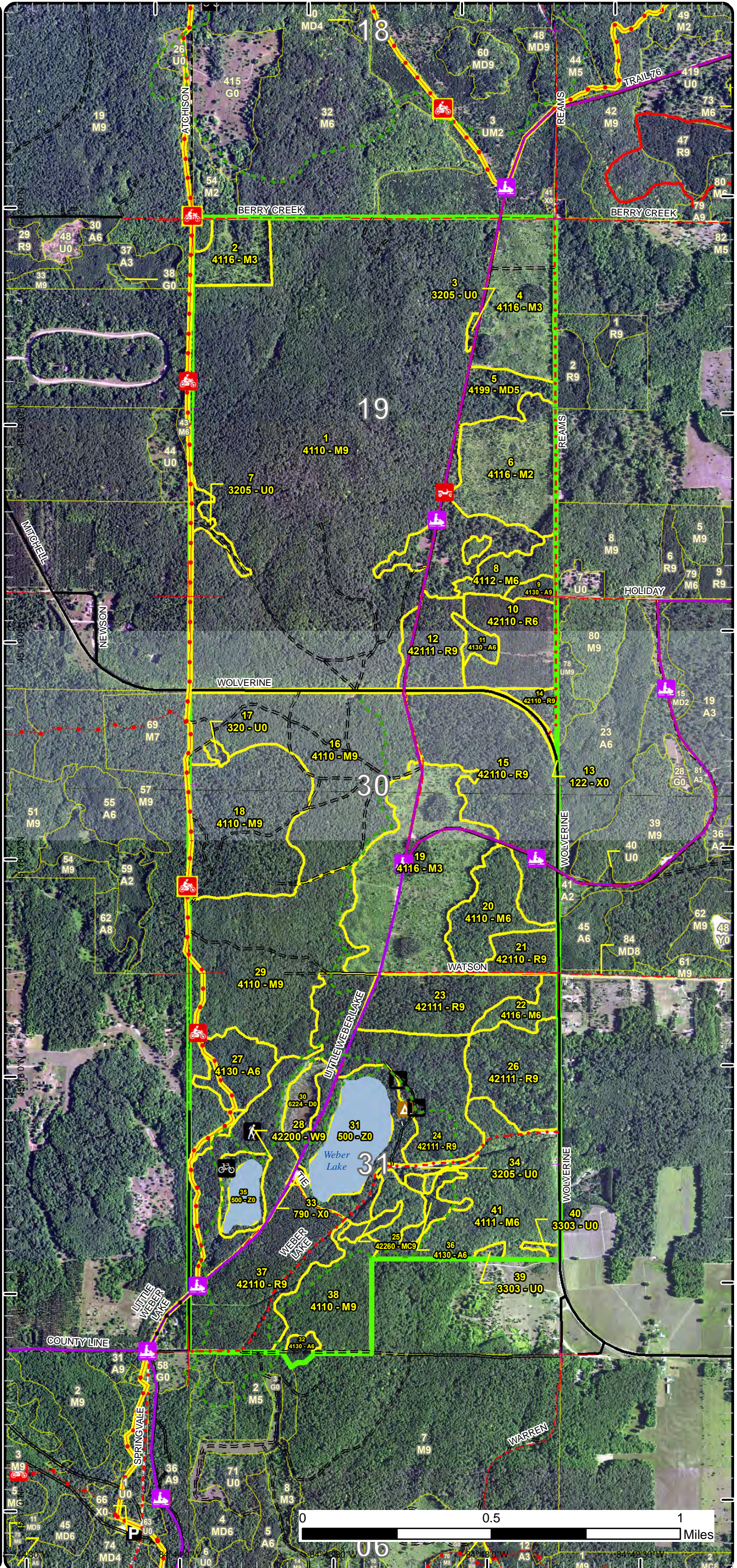
84°43'30" W 84°43'30" W 84°43'30" W 84°43'30" W
 45°17'00" N 45°17'00" N 45°17'00" N 45°17'00" N
 Gaylord 148 2019

Stand Boundary Map

Compartment: 144
 T34N, R03W, Sec. 19, 30, 31
 T33N, R03W, Sec. 6
 County: Cheboygan
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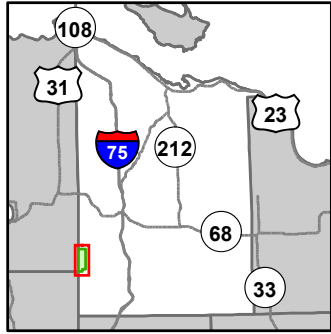


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
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- Federal / State / County - Paved Road
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- County - Gravel Road
- County - Dirt Road (Seasonal)
- Hiking Trails
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- Motorcycle Trails (DNR License)
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- ORV Routes
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- Designated Hiking Trails
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- Compartment Boundary
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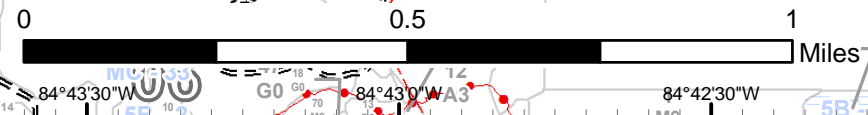
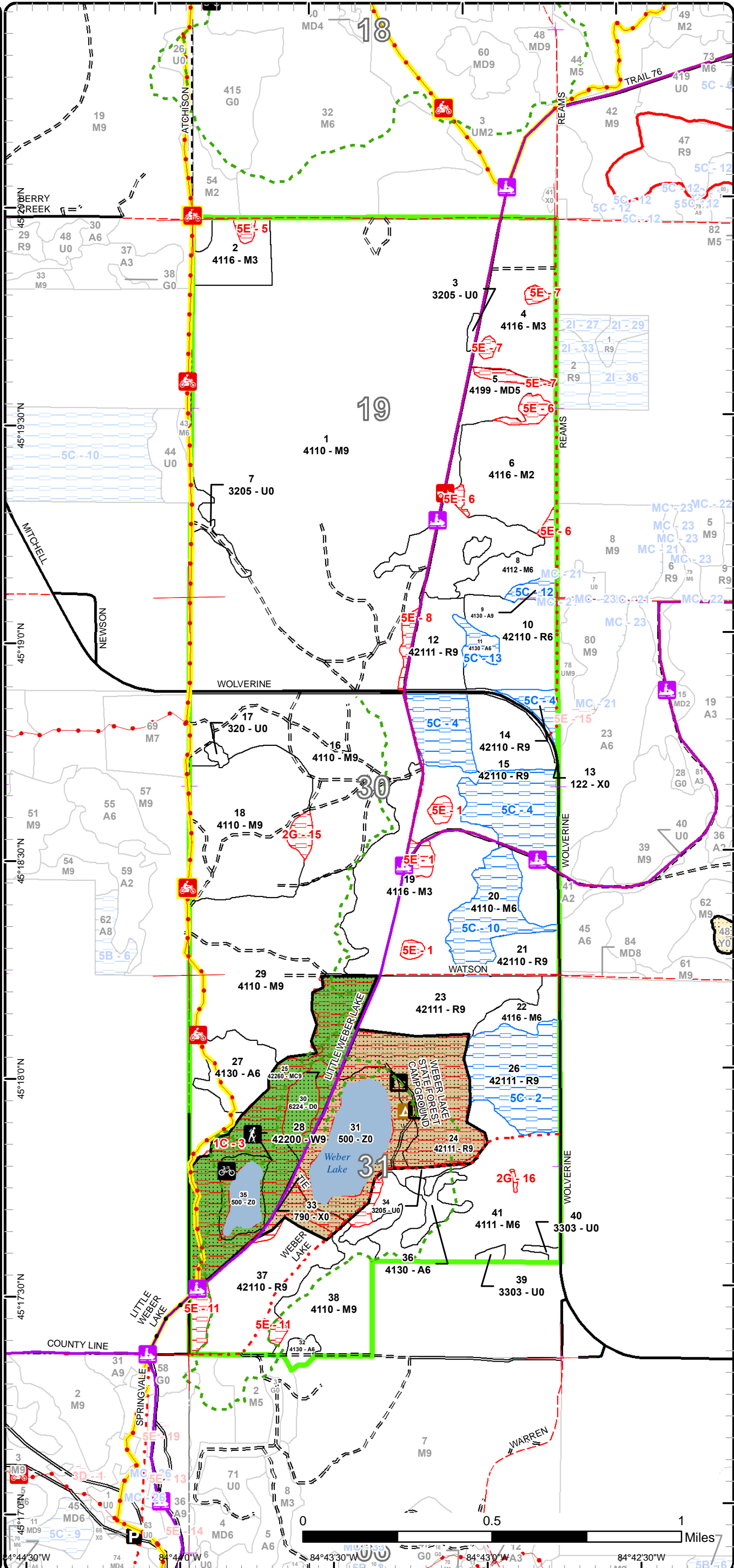


Special Conservation Areas

Compartment: 144
 T34N, R03W, Sec. 19, 30, 31
 T33N, R03W, Sec. 6
 County: Cheboygan
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- ORV License
- ORV License & Trail Permit
- Designated ATV
- - - Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Lake/Pond
- Lakes and Rivers
- Toilet
- Campground
- Parking Lot
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- State Forest Campground
- Rail-Trail Corridor
- Sand or Gravel Pit



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	0	35	5	4	0	0	0	0	0	0	0	0	0	0	44
Bare/Sparsely Vegetated	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	30
Northern Hardwood	0	212	0	0	0	0	0	0	16	154	805	0	0	0	0	0	0	0	1186
Red Pine	0	0	0	0	0	0	0	33	0	0	374	0	0	0	0	0	0	0	407
Treed Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Shrub	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
White Pine	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	8
Total	68	212	0	0	49	35	5	37	16	154	1209	8	0	0	0	0	0	0	1791



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 144

Total Compartment Acres: 1,793

Commercial Harvest - 253
 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
Northern Hardwood	0	102	0	0	0	0	0	0	0	102
Red Pine	105	0	0	0	46	0	0	0	0	151
Total	105	102	0	0	46	0	0	0	0	253

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	253	0	0	0	0	0	0	2	0	254
Next Step	0	210	105	0	0	105	253	0	0	673
Total	253	210	105	0	0	105	253	0	2	927



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:

12	52144012- RPCCutRet	20.9	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	90	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest this YOE with a red pine MO. Cut all trees 2" and larger at DBH except incidental oak or hemlock. An un-harvested long-term retention area will be left within the stand, but outside the timber sale boundary, on the west side of the snowmobile trail. No harvest equipment will be allowed to operate on the designated snowmobile trail between December 1 and April 1, the active snowmobile season. Add sale specs to protect trail during harvest operations. Use standard next step treatments for site prep, planting, herbicide application, and monitoring. Include hard and soft mast species as part of the replanting project.</p> <p><u>Next Step Treatments:</u> SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release</p> <p><u>Acceptable Regen:</u> Fully stocked stand of planted red pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
15	52144015- RPCCut	33.5	42110 - Planted Red Pine	Sawtimber Well	91	141- 170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest this YOE with a post-harvest red pine MO. Cut all trees 2" and larger at DBH except oak or hemlock. No un-harvested long-term retention areas will be left within the harvest areas because of the relatively small acreages being cut, and the existence of red pine sawtimber adjacent to the harvest areas. No harvest equipment will be allowed to operate on the designated snowmobile trail between December 1 and April 1, the active snowmobile season. Add sale specs to protect trail during harvest operations. Use standard next step treatments for site prep, planting, herbicide application, and monitoring. Include hard and soft mast species as part of the replanting project. To create desirable pine marten habitat, fell and leave intact on the ground, any trees marked with a band of green paint. These trees will be found along the west boundary of Stand 15. These banded trees should be felled so they lay on the ground in adjacent Stand 20.</p> <p><u>Next Step Treatments:</u> SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release</p> <p><u>Acceptable Regen:</u> A fully stocked stand of hand planted red pine and possibly scattered red oak seedlings, and/or soft mast producing shrubs.</p> <p><u>Other Comment:</u> Sight lines and aesthetics from Wolverine Rd. have been considered for the placement of the proposed current harvest areas.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
16	52144016- SelCut	101.7	4110 - Sugar Maple Association	Sawtimber Well	90	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription Specs:</u> Selection harvest is prescribed this YOE. Mark stand down to a post-harvest stocking density of 70 - 75 sq. ft. BA. Release desirable crop trees and create a 100 - 150' canopy gap every 4 - 6 acres. Harvest any aspen clones as part of canopy gap areas. Cut all live beech and white ash, unless marked with a band of green paint. No incidental conifer trees will be marked for harvest. Avoid marking in or near seep areas. No tree length skidding will be allowed. No harvest equipment or trucks will be allowed on the designated snowmobile trail from December 1 to April 1. Trail must be maintained in reasonable condition during harvest activity and be suitable for grooming by December 1. Do not damage or remove trail signs or markers. All stumps within 10' of the trail must be cut flush with the ground. There will also be no harvest activity during the barkslip season, April 15 to July 15, unless changed by written permission from the Gaylord Unit Supervisor. The cycle and hiking trails should remain free of ruts and slash during harvest operations. Logging signs must be placed on all trails during harvest activities. No obvious den trees and/or raptor nests will be marked for harvest. Add raptor nest spec. Monitor sale area for legacy trees, which should remain un-marked for harvest.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mixed northern hardwood and aspen.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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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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17	52144017-NF	1.6	320 - Upland Shrub	Nonstocked		Unspecified	NonForestMgt	Other - Specify	320 - Upland Shrub	No
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Prescription Specs: Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast. Protect hawthorn and other native mast producing shrubs.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

21	52144021-RPCCut	13.0	42110 - Planted Red Pine	Sawtimber Well	91	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Specs: Final harvest this YOE with a red pine MO. Cut all trees 2" and larger at DBH except incidental oak or hemlock. No un-harvested red pine long-term retention areas will be left within the stand because the stand is only 13 acres in size. No seasonal harvesting restrictions will exist on this stand. Use standard next step treatments for site prep, planting, herbicide application, and monitoring. Include hard and soft mast species as part of the replanting project. To create desirable pine marten habitat, fell and leave intact on the ground, any trees marked with a band of green paint. These trees will be found along the north and west boundary of Stand 21. These banded trees should be felled so they lay on the ground in adjacent Stand 20.

Next Step Treatments: SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release

Acceptable Regen: A fully stocked stand of planted red pine. Hard and soft mast species is encouraged also.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

23	52144023-RPCCut	37.6	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	91	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Specs: Final harvest this YOE with a red pine MO. Cut all trees 2" and larger except incidental oak or hemlock. No un-harvested long-term retention areas will be left within the harvest boundary because unharvested red pine retention areas are present nearby in adjacent stands. No harvest equipment will be allowed to operate on the designated snowmobile trail between December 1 and April 1, the active snowmobile season. Add sale specs to protect trail during harvest operations. Use standard next step treatments for site prep, planting, herbicide application, and monitoring. Include hard and soft mast species as part of the replanting project. To create desirable pine marten habitat, fell and leave intact on the ground, any trees marked with a band of green paint. These trees will be found along the east boundary of Stand 23. These banded trees should be felled so they lay on the ground in adjacent Stand 22.

Next Step Treatments: SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release

Acceptable Regen: Fully stocked hand planted red pine. Additional oak and soft mast species may be present also.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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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
37 52144037-RPShelter	46.0	42110 - Planted Red Pine	Sawtimber Well	92	111-140	Harvest	Shelterwood with Retention	4117 - Mixed N. Hardwood - Pine	Two-Aged	No
<p><u>Prescription</u> Prescribe a shelterwood harvest. Leave 30 - 50 sq. ft. of teal marked red pine sawtimber unharvested. Let mixed northern hardwood understory develop, especially sugar maple. Cut all red pine trees that are not marked with teal colored paint. Prevent excessive damage to mixed hardwood sapling/poletimber understory. Minimizing the number of skid roads utilized during harvest operations will help to achieve this. Care should also be taken to prevent damage to residual red pine trees. No harvest activity will take place during the barkslip season. Tie Rd. will not be used by trucks or harvest equipment at any time. No trucks or harvest equipment will operate on the designated snowmobile trail from December 1 - April 1. The snowmobile trail will be maintained regularly if it is used by trucks or harvest equipment during the non-snowmobile season. The trail must be in a condition suitable for grooming by December 1. Harvest equipment will not be allowed to travel down the segments of the hiking trail that are located along the harvest area boundary. Keep both trails free from tops and slash at all times. Two unharvested long-term timber retention areas will exist outside the timber sale boundary. No harvest equipment will be allowed to operate within these areas. Protect any active raptor nests that may be present during harvest activities.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed northern hardwood.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: **254.3**

Report 4 – Site Conditions

Gaylord Mgt. Unit
Donald Stacks : Examiner

Compartment: 144
Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	1C	2G	5E
44	35	9	0	Aspen	9			
1	1	0	0	Bare/Sparsely Vegetated				
3	3	0	0	Low-Density Trees				
49	46	0	3	Mixed Upland Deciduous				3
30	0	0	30	Natural Mixed Pines		30		
1187	1135	28	24	Northern Hardwood	28		4	20
407	185	94	129	Red Pine	94	118		11
9	9	0	0	Treed Bog				
12	12	0	0	Upland Shrub				
8	8	0	0	Urban	0			
35	35	0	0	Water				
8	0	0	8	White Pine		8		
1,793	1,468	131	194	Total Forested Acres	131	157	4	33
	82%	7%	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	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Donald Stacks : Examiner

Compartment: 144
Year of Entry: 2022



3	Unavailable	1C: Other dept or div proc/practices	157	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	56	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retain for stand 2							
6	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: For stand 12							
7	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: For stand 9							
8	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Donald Stacks : Examiner

Compartment: 144
Year of Entry: 2022



11	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
Weber Lake Rec Site	Concentrated Recreation Area	Rail-Trail Corridor	SCA Proposal	93
Comments				
Concentrated recreational use in this area with the presence of Weber Lake State Forest Campground, designated snowmobile, ORV, and hiking trails, along with fishing use on Weber Lake, a designated trout lake.				
Weber Lake Rec Site	Concentrated Recreation Area	State Forest Campground	SCA Proposal	109
Comments				
Concentrated recreational use in this area with the presence of Weber Lake State Forest Campground, designated snowmobile, ORV, and hiking trails, along with fishing use on Weber Lake, a designated trout lake.				



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	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
1	4110 - Sugar Maple Association	Sawtimber Well	514.4	90	81-110	N/A	Large acreage n. hardwood sawtimber stand. High quality timber on rolling hills with a few steep slopes present. Stand received selection harvests in 1992-1995, in the northwest and southwest portions of the stand, and 2004-2007, in the remaining area. Stand did not receive an ash/beech salvage because it had a lower percentage of these species. All white ash is dead, while much of the sparse, scattered beech is still alive, but showing the presence of BBD. Sparse, scattered black cherry, BTA, and yellow birch are present also. High percentage of good quality sugar maple crop trees present in variable diameters. Dense hardwood regen present, in variable heights, throughout much of the stand. BA is 87 sq. ft. at present time due to recent harvests. Some of stand will be ready for selection harvest next Y.O.E. Adjacent to the snowmobile trail to the east, and the cycle trail to the west.																																																																
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2	4116 - Mixed N. Hardwood - Aspen	Sapling Well	20.9	9	Immature	N/A	Post red pine clearcut northern hardwood regen from 2012 treatment. An area of large red pine sawtimber was left unharvested for long-term retention. Scattered white pine sawtimber/poletimber also were left unharvested and is found within the stand.																																																																
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3	3205 - Mixed Upland Shrub	Nonstocked	1.4		Unspecified	No	Open, upland brush site with scattered poor quality aspen and hardwood saps and small poletimber.																																																																
4	4116 - Mixed N. Hardwood - Aspen	Sapling Well	49.2	8	Immature	N/A	Red pine sawtimber final harvest 2013. Stand now consists of northern hardwood/aspen regen, fairly dense. Two red pine retention islands are present within the stand.																																																																
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5	4199 - Other Mixed Upland Deciduous	Poletimber Medium	48.5	30	1-50	N/A	Stand consists of a mix of hardwood/aspen poles and saps, with sparse scattered red pine and white pine sawtimber. Numerous small openings exist within the stand, making the overall stocking density of the stand less than full, with a lower BA of about 40 sq. ft. presently. Multiple upland shrubs are found within the openings. Let the hardwood/aspen component grow for several decades before a treatment is considered. Stand is adjacent to the snowmobile trail to the west and Reams Rd. to the east.																																																																
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6	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	48.7	9	Immature	N/A	Medium stocked northern hardwood/aspen regen from 2013 red pine sawtimber final harvest. Northern hardwood MO presently.																																																			
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7	3205 - Mixed Upland Shrub	Nonstocked	5.2		Unspecified	No	Upland brush stand with encroaching hardwood saps, lying in a valley.																																																			
8	4112 - Maple, Beech, Cherry Association	Poletimber Well	16.0	70	81-110	N/A	Hardwood poletimber, mostly red maple. Lesser amounts of sugar maple. Current BA is about 100 sq. ft. Sparse, scattered black cherry, yellow birch, BTA, and large red pine present also. 48 acres adjacent to the east is presently prescribed for final harvest. Delay treatment to this stand. Prescribe a final harvest to this stand in ten years, along with Stand 9. Allow the aspen component in this stand to expand. MO will be a mix of aspen and northern hardwood.																																																			
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9	4130 - Aspen	Sawtimber Well	4.3	61	81-110	N/A	Small stand consisting of mostly big-toothed aspen sawtimber, with lesser amounts red maple and sugar maple poletimber. Adjacent to Reams Rd. Delay final harvest for age/size class diversity until next YOE, along with Stands 8 and 11. 48 acres adjacent to this stand in Compartment 149 is prescribed for final harvest presently. MO for stands 8, 9, and 11 will be an aspen/n. hardwood mix.																																																			
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10	42110 - Planted Red Pine	Poletimber Well	33.2	63	111-140	N/A	Red pine plantation, mostly poletimber with some entering boltwood and small sawlog size classes. Stand was row-thinned in 2003. Good quality with a sparse hardwood understory. Stand was marked and thinned in 2013. Red pine BA is 137 sq. ft. presently. Thin next YOE.																																																			
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11	4130 - Aspen	Poletimber Well	5.0	50	81-110	N/A	Small acreage, big-toothed aspen, mostly poletimber with a few sawlogs, with lesser amounts of red maple and black cherry poletimber. Surrounded by red pine plantations. Final harvest this stand in ten years with Stands 8 and 9. Maintain this stand with an aspen MO. This stand will provide some desirable habitat, with red pine being the MO all around it.																																																			
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12	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	24.2	90	111-140	N/A	Larger diameter red pine sawtimber with fairly dense hardwood understory. Total stand BA is presently about 120 sq. ft. Adjacent to Wolverine Rd. and designated snowmobile trail. Final harvest prescribed this YOE. Post-harvest red pine MO.																																													
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13	122 - Road/Parking Lot	Nonstocked	7.7		Unspecified	No	Wolverine Rd.																																													
14	42110 - Planted Red Pine	Sawtimber Well	5.9	91	81-110	N/A	Small acreage, large diameter red pine, adjacent to two county roads. Jack pine was removed in 2003. Treatment is being delayed because of adjacent red pine being treated.																																													
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15	42110 - Planted Red Pine	Sawtimber Well	84.0	91	141-170	N/A	Stand consists of large diameter red pine sawtimber with a fairly heavy hardwood sapling/poletimber understory. Adjacent to Wolverine Rd. and two designated snowmobile trail segments. Final harvest a portion of Stand 15 this YOE, with a post-harvest MO of red pine. Consider site lines from county road when setting up present and future sale boundaries.																																													
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16	4110 - Sugar Maple Association	Sawtimber Well	105.4	90	111-140	N/A	Fairly high quality mixed northern hardwood, mostly sugar maple and basswood sawtimber and poletimber on mostly flat ground. Adjacent to Wolverine Rd. Adjacent to snowmobile trail on east and cycle trail on west. Present BA stands at about 114 sq. ft. Stand will be prescribed for a selection harvest this YOE.																																													
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17	320 - Upland Shrub	Nonstocked	1.6		Unspecified	No	Small upland shrub stand with encroaching hardwood saps. Prescribe opening maintenance this YOE.																																													
18	4110 - Sugar Maple Association	Sawtimber Well	70.9	90	81-110	N/A	Northern hardwood sawtimber stand. Selection harvest was completed in 2014. All white ash and beech were also removed at this time. Post-harvest residual BA is about 90 sq. ft. at present.																																													
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19	4116 - Mixed N. Hardwood - Aspen	Sapling Well	93.2	6	Immature	N/A	Red pine final harvest completed 2013 - 2014. Stand consists of residual northern hardwood and aspen regen. Fairly well-stocked with a few sparse areas. Northern hardwood management objective. Three mature RP sawtimber islands were as long-term retention from sale. A few red oak saplings were planted in the SW portion of the stand. Good wildlife cover.																																																			
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20	4110 - Sugar Maple Association	Poletimber Well	27.6	80	111-140	N/A	Fair quality mixed northern hardwoods, mostly sugar maple poletimber. Present BA is about 120 sq. ft. Prescribe a marked thinning in ten years. Stand is located between 6 year old mixed hardwood stand to the west and red pine sawtimber stands to the east that are prescribed for final harvest this YOE. Adjacent to Wolverine Rd.																																																			
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21	42110 - Planted Red Pine	Sawtimber Well	13.2	91	81-110	N/A	High quality, mature, large diameter red pine with dense hardwood sapling/poletimber understory, adjacent to Wolverine Rd. Marked and thinned in 2013. Many utility poles present. Final harvest this stand this YOE with a post-harvest red pine MO. Adjacent to Wolverine Rd. Red pine BA is presently about 103 sq. ft.																																																			
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22	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	10.7	81	81-110	N/A	Mixed northern hardwood, mostly red maple, poletimber and small sawtimber. Current BA is about 110 sq. ft. Original red pine overstory is sparse in this stand, possibly due to planting mortality and or earlier harvest. About a quarter mile NE of Weber Lake Campground, adjacent to Wolverine Rd. and residences. Considering the lesser quality of the hardwoods, mostly red maple, in this stand, prescribe a final harvest in ten years and replant to red pine. Stand 26 will also be harvested and replanted to red pine next YOE.																																																			
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23	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	37.6	91	111-140	N/A	Large diameter red pine sawtimber, with a mixed hardwood sapling/poletimber understory. Located on mostly flat topography with a few minor rolling hills present, about 1/8 mile north of Weber Lake. Adjacent to designated snowmobile and hiking trails. Stand was last thinned in 2004-2005. Present BA is about 130 sq. ft. Final harvest this YOE with a post-harvest red pine MO.																																																			
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24	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	110.7	91	141-170	N/A	Red pine sawtimber with a dense understory of mixed northern hardwood. Present BA is about 156 sq. ft. Stand surrounds Weber and Little Weber Lakes. Weber Lake State Forest Campground present within stand as well as designated snowmobile, cycle, and hiking trails. Water quality and recreation/scenic site conditions applied. Heavy recreational use. Not prescribed for treatment.																																														
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25	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	30.2	91	141-170	N/A	Stand is located all around the edge of Weber Lake, including the campground sites. Stand has a site condition of recreation/scenic. Mostly white pine, red pine, and BTA sawtimber. Sparse, scattered hemlock present also.																																														
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26	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	37.9	91	111-140	N/A	Red pine sawtimber with a dense understory of mixed hardwood poletimber and saps, with an occasional small sawlog present. Final harvest this stand next YOE with a red pine MO. Adjacent to Wolverine Rd.																																														
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27	4130 - Aspen	Poletimber Well	20.0	43	51-80	N/A	Quaking aspen poletimber with a lesser amount of sugar maple from 1977 final harvest. Sparse scattered black cherry, beech, basswood, and elm. Topography is hilly in parts of the stand, but operable. BA is about 60 sq. ft. presently. Hold stand 10 years for diameter growth, then final harvest in 2032 YOE. Maintain aspen MO. Harvest with Stand 29 (M9), which will possibly receive a selection harvest next YOE, adjacent to the north. Cycle trail runs through stand.																																														
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28	42200 - Natural White Pine	Sawtimber Well	8.1	100	111-140	N/A	Mixed stand of mostly white pine sawtimber/poletimber, and hemlock poletimber/sawtimber, with lesser amounts of red pine, BTA, and red maple. Stand surrounds Little Weber Lake. Very scenic. Hiking trail runs through stand, snowmobile trail is adjacent to the east. Cycle trail is located about 1/8 mile to the west. State forest campground located 1/4 mile to the NE. Riparian and Recreation/scenic site conditions applied. Stand will never be harvested.																																														
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29	4110 - Sugar Maple Association	Sawtimber Well	113.8	90	81-110	N/A	Fair quality mixed northern hardwood, mostly sugar maple and basswood sawtimber/poletimber. Slightly lower BA for treatment (98 sq. ft.) throughout stand presently. Possible selection harvest in ten years as BA increases. West half of stand has some steep topography, but should still be operable.																																
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30	6224 - Treed Bog	Nonstocked	8.9		Unspecified	No	Treed leatherleaf bog located on low, wet ground. Very sparse, scattered white pine and red maple saps. Standing water present. Stand has expanded in the last ten years. Almost all trees in the surrounding trees have drowned and are now standing snags. Hiking trail adjacent to stand.																																
31	500 - Water	Nonstocked	27.4		Unspecified	No	Weber Lake.																																
32	4130 - Aspen	Poletimber Well	3.5	44	51-80	N/A	Small stand of mostly quaking aspen poletimber, with a few log-sized trees, from a 1976 wildlife cut. Stand sits on a south and west facing slope. Advanced hardwood, mostly sugar maple, in the understory. Final harvest next YOE to maintain aspen MO with Stand 36 to the north. Stand 38 may also be treated at that time. .																																
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33	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		Unspecified	No	This stand is a sand and sparsely vegetated area adjacent to Weber Lake that has been used for parking vehicles to gain access to the lake. Gated ramp to lake was established and erosion prevention work was performed in early 2000's.																																
34	3205 - Mixed Upland Shrub	Nonstocked	3.9		Unspecified	No	Upland brush/encroaching hardwood/aspen saps adjacent to Weber Lake Rd.																																
35	500 - Water	Nonstocked	7.4		Unspecified	No	Little Weber Lake.																																
36	4130 - Aspen	Poletimber Well	11.4	45	51-80	N/A	Multiple small stands of regenerating aspen clones, mostly BTA poletimber, from 1976 final harvest prescribed by Wildlife Division. Less than a 1/4 mile from Webber Lake and campground. Hold 10 years for diameter growth. Next YOE, stand can either be harvested, to maintain aspen MO, along with a portion of poor quality hardwood in Stand 41 to expand Stand 36 into one contiguous stand, or it could have a recreation site condition placed on it and not harvested, eventually converting to mixed hardwood.																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
37	42110 - Planted Red Pine	Sawtimber Well	60.9	92	111-140	N/A	High quality, 92 year old red pine sawtimber on mostly flat ground, with several smaller hills located toward the south end of the stand. Many larger diameters. Some utility poles present. Stand was last thinned in 2013. Present stand BA is about 135 sq. ft. Weber Lake and Little Weber Lake are located about 1/8 from the stand. The campground is about 1/4 mile to the north. Recreational use is fairly high in this area with the campground and lakes, and designated hiking, cycle, and snowmobile trails adjacent to the stand, making aesthetics an important consideration. With this concentrated recreational use and aesthetics in mind, a shelterwood harvest will be prescribed this YOE.																																																							
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38	4110 - Sugar Maple Association	Sawtimber Well	36.2	85	81-110	N/A	Fairly high quality mixed northern hardwood sawtimber/poletimber, mostly sugar maple and basswood, located on a west facing slope and plateau. Slope is not excessively steep and is operable. Current BA is about 110 sq. ft. Prescribe a selection harvest next YOE, to allow for increased BA and diameter growth for this stand. Lesser amounts of beech, red maple, yellow birch, and black cherry also present.																																																							
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39	3303 - Mixed Low Density Trees	Nonstocked	1.7		Unspecified	No	Stand consists of a sparse growth of mixed saplings and poletimber consisting of sugar maple, black cherry, beech, white pine, red pine, and scotch pine. Adjacent to private field.																																																							
40	3303 - Mixed Low Density Trees	Nonstocked	1.6		Unspecified	No	Stand is a sparse mix of saplings and poletimber consisting of sugar maple, black cherry, beech, white pine, red pine, and scotch pine. Adjacent to private farm field and Wolverine Rd.																																																							
41	4111 - S.Maple, Hard Mast Association	Poletimber Well	79.5	85	51-80	N/A	Variable hardwood stand, mostly sugar maple poletimber, with a slightly lesser amount of sawtimber present, located on rolling hills, with fairly steep north and west facing slopes. There is still a fair amount of live beech poletimber and small sawtimber present, with scale. BA will remain somewhat stagnant as beech continues to fall out of the stand over the next few years. The stand may be ready for a selection harvest in 30 years.																																																							
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