



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52048

Entry Year 2023

Acreage: 1,960

County Antrim

Management Area: Jordan Valley

Revision Date: 2021-05-14

Stand Examiner: Zach Crew

Legal Description:

T31N-R05W, Sections 17, 20, 29, 32

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:

This compartment is dominated by the Jordan River valley. The terrain that forms the river valley can be quite steep in places. The dominant upland soil type is the Kalkaska-Montcalm loamy sand complex. Tawas much and Roscommon mucky sands are typically associated with the wetlands along the Jordan River.

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

This compartment is part of a large contiguous block of state owned land surrounding the Jordan River. There is private parcels located to the north and south of the compartment.

Unique Natural Features:

The Jordan River is a designated Wild and Natural River that flows through this compartment. A search of the Michigan Natural Features Inventory database returned a notation indicating the possible presence of Red-Shouldered Hawk (*Buteo lineatus*) in the compartment. No active nests were observed during inventory.

Archeological, Historical, and Cultural Features:

None.

Special Management Designations or Considerations:

In 1972 the Jordan River became the first river in Michigan to be formally designated as a Wild-Scenic River under the State's Natural Rivers Act. In 1996 a large portion of the compartment was nominated for dedication as a Natural Area. This is reflected in the site conditions. That nomination is still pending but until such time that the application is formally evaluated and acted upon, the lands identified are to be managed in accordance with the statutory requirements of Act 451. A Department Directors Order is in place which governs specific recreational uses on State-owned land within this compartment lying south of M-32.

Watershed and Fisheries Considerations:

This compartment is in the Jordan River watershed and contains portions of Warner Creek and the upper Jordan River. The Jordan River is a state designated Natural River. These two sections of stream often have beaver/angler conflicts, and in recent years efforts have been made to remove old dams and trap beavers out of the area. The proposed treatments include appropriate buffers from the stream, and appropriate BMP's should be used in wet areas.

Wildlife Habitat Considerations:

The river corridor in this compartment is known to provide habitat for black bears. The adjacent hardwoods are used by various songbirds. The access in this compartment provides trails for wildlife-related recreation like bird watching.

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel pit is located one mile to the southeast, in Section 4. There appears to be some sand & gravel potential within the compartment, but trails and the Jordan River (and development restrictions noted below) would inhibit development. Oil and gas potential in the area is primarily for the Antrim Shale gas play. The compartment is within the Jordan Valley Management Area; mineral leasing and development is not currently allowed. However, some leases and wells that already existed when the management area was created are still active including those in Section 17. Other wells on adjacent private land are currently draining State-owned minerals within the compartment without compensation to the State. There is no known potential for metallic minerals in this part of the state.

Vehicle Access:

Vehicle access is fairly limited in this compartment. There is only one county road that runs through the compartment and all two tracks are closed to vehicle traffic per an executive order.

Survey Needs:

There was a survey request put in for in the previous YOE for the treatment located in Section 20. As far as I know that survey request was never formally established. The same request would be needed to establish the private boundary for the treatment in stand 11.

Recreational Facilities and Opportunities:

There is a snowmobile trail that runs along the county road that bisects this compartment. There are also sections of the North Country Trail, Jordan Valley Pathway, and Warner Creek pathway that are located in this compartment.

Fire Protection:

Fire protection for this area is provided out of the Bellaire Field Office. Access would be an issue for any fires that occurred off of the main county road. However, the forest types that occur in this compartment do not lend themselves to large scale fire events.

Additional Compartment Information:

The following reports from the Inventory are attached:

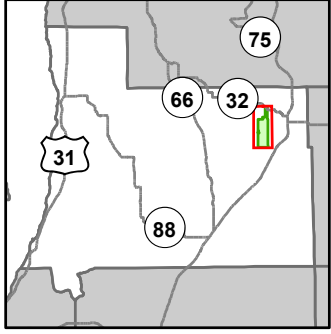
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

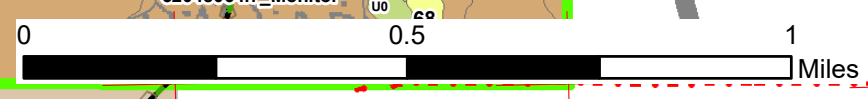
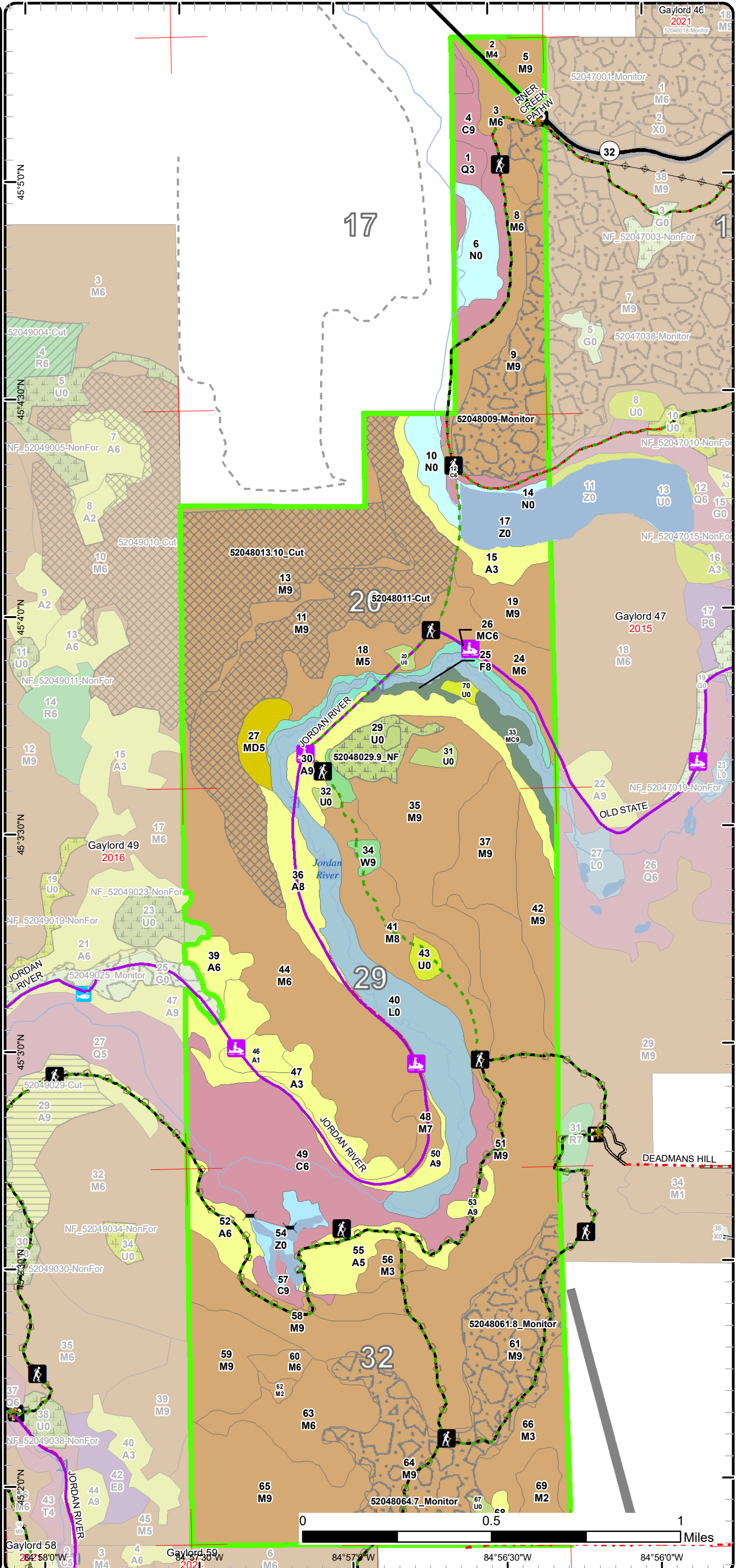
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 48
 T31N, R05W, Sec. 17, 20, 29, 32
 County: Antrim
 Unit: Gaylord
 Mgmt Area: Jordan Valley
 YOE: 2023
 Acres: 1959.6 GIS Calculated
 Examiner: Zach Crew
 Map Revised: 10/5/2021
 Map Phase: Post-Review



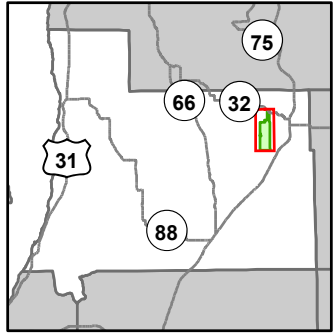
- Miris Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- Federal / State Highway
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Bike Trails
- Ski Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Bridges
- Culvert
- Fishing Access Site
- Parking Lot
- Trailhead
- Pipeline
- Powerline
- Airports
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



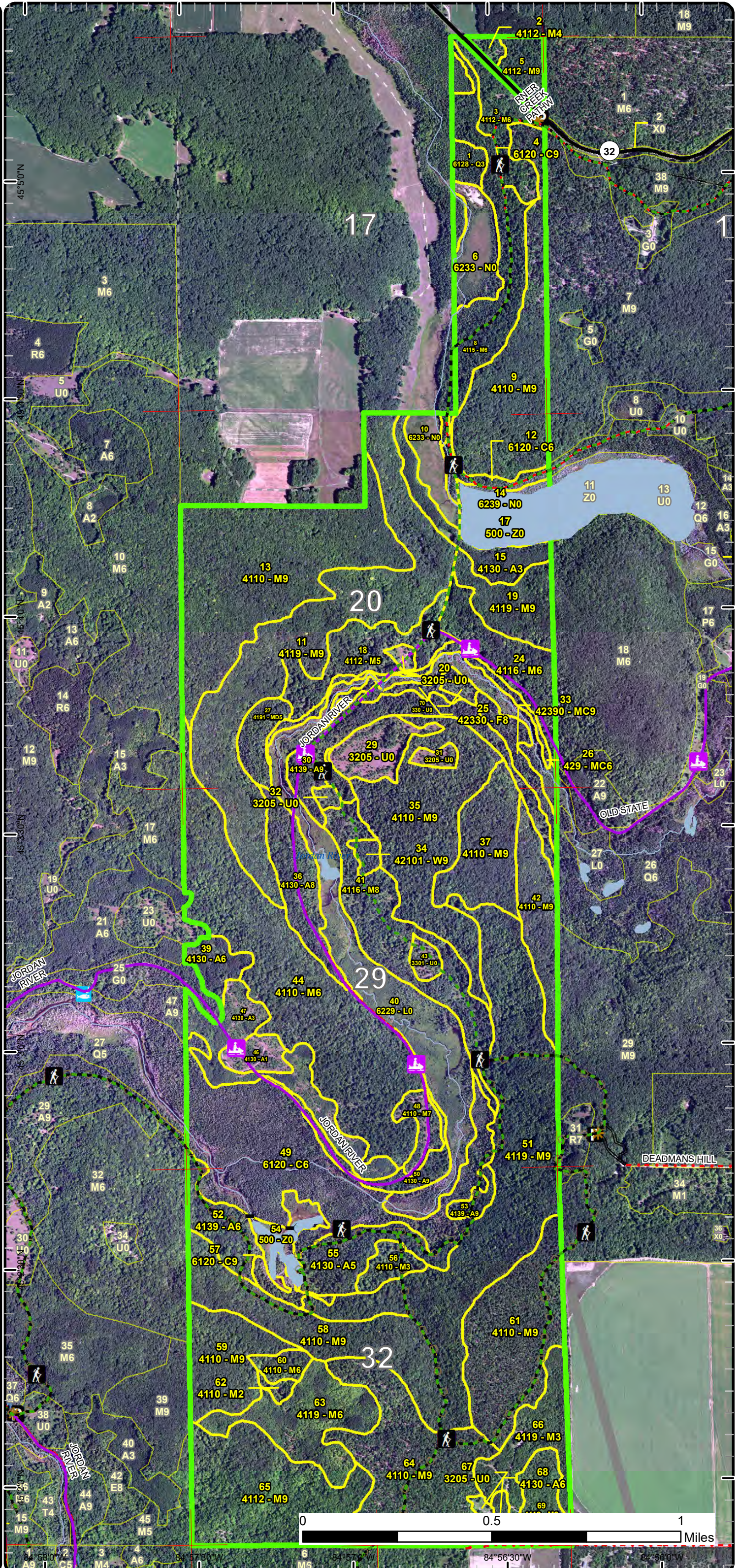
Gaylord 58 2021 3 M4 4 A6 Gaylord 59 2021 6 M6 84°57'0"W 84°56'30"W 84°56'0"W

Stand Boundary Map

Compartment: 48
 T31N, R05W, Sec. 17, 20, 29, 32
 County: Antrim
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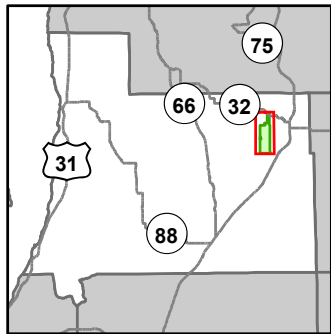


- Miris Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- Federal / State Highway
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
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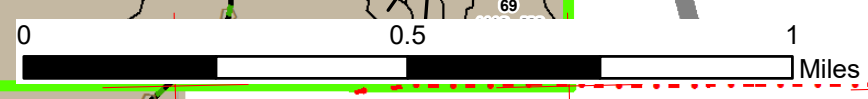
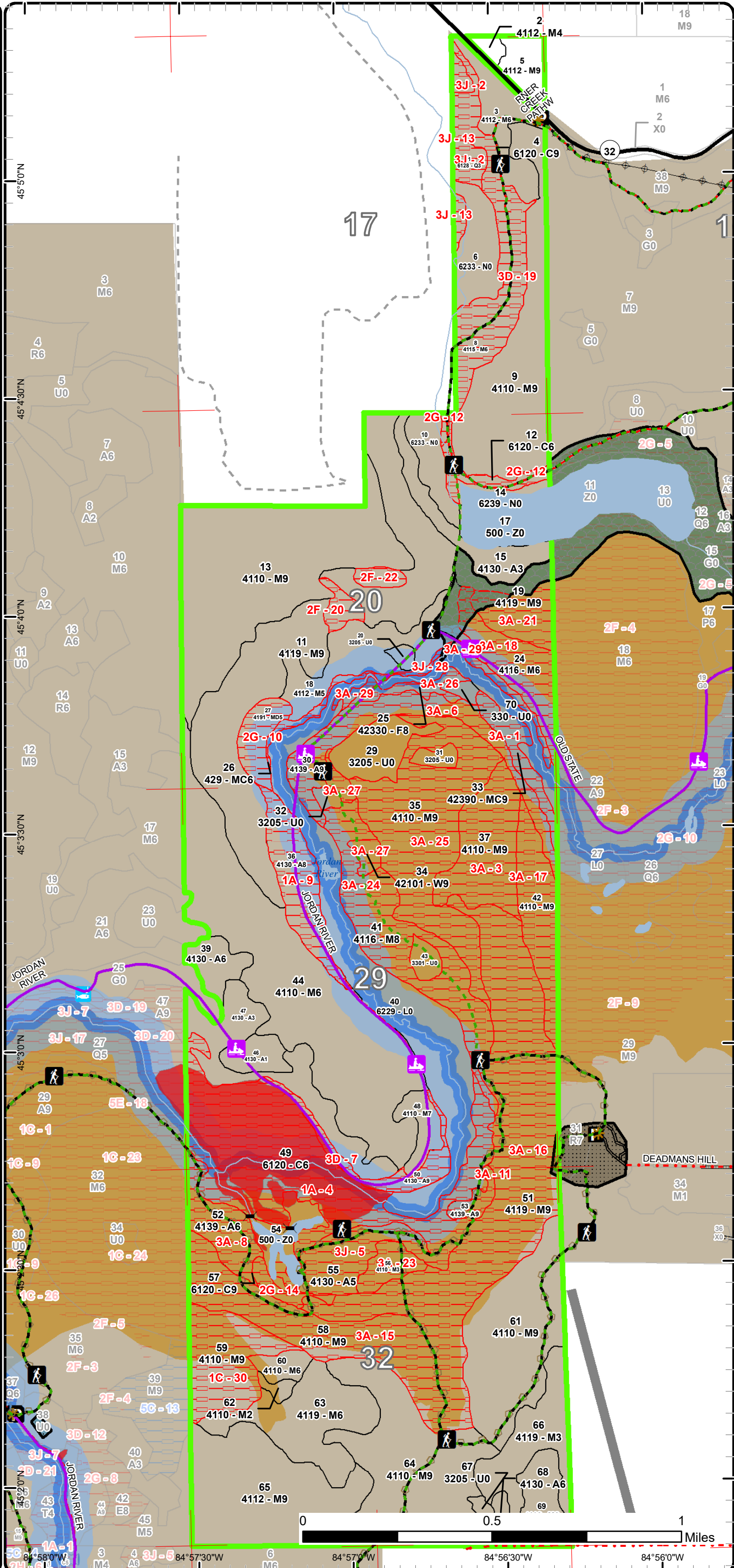


Special Conservation Areas

Compartment: 48
 T31N, R05W, Sec. 17, 20, 29, 32
 County: Antrim
 Unit: Gaylord
 Mgmt Area: Jordan Valley
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- Miris Corners
- Counties
- DNR - Primary Forest Road
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- Private - Dirt / Gravel Road
- Hiking Trails
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- Designated Bicycle Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Bridges
- Culvert
- Fishing Access Site
- Parking Lot
- Trailhead
- Pipeline
- Powerline
- Airports
- Compartment Boundary
- Unavailable
- 1A: Federal/State/Local Law
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- SCA Removal
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Dedicated Management Areas
- Cold Water Streams
- Non-Dedicated Natural Areas and National Natural Landmarks
- Trail Head
- Habitat Corridor



84°58'0"W 84°57'30"W 84°57'0"W 84°56'30"W 84°56'0"W

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	47	0	36	0	0	0	0	30	92	0	0	0	0	0	0	0	205
Cedar	0	0	0	0	0	0	0	0	0	0	34	114	0	0	0	0	0	0	148
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Shrub	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98
Marsh	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	12
Northern Hardwood	0	0	0	12	96	0	24	0	0	260	673	284	0	0	0	0	0	0	1347
Upland Conifers	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	24
Upland Shrub	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Upland Spruce/Fir	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Water	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
White Pine	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	6
Total	203	0	47	12	132	9	31	0	6	326	799	398	0	0	0	0	0	0	1959



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Compartment 48

Year of Entry: 2023

Acres of Harvest

Total Compartment Acres: 1,960

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
Northern Hardwood		0	220	0	0	0	0	0	0	0	220
	Total	0	220	0	0	0	0	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	212	0	17		448
Next Step		0	0	0	0	0	220	0	0		220
	Total	220	0	0	0	0	432	0	17		668



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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:

9	52048009-Monitor	69.4	4110 - Sugar Maple Association	Sawtimber Well	105	51-80	Monitoring	Natural Regen (Intermediate)	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Conduct regen survey on entire sale area (stands in both compartments) and then assess as too next steps.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> The goal is to release crops trees within the residual stand while also opening up the canopy to promote natural northern hardwood regeneration.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
11	52048011-Cut	120.0	4119 - Mixed Northern Hardwoods	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand with a target residual BA of ~80. Establish one regen gap at least 100 feet in diameter per 5 acres. Concentrate regen gaps in areas heavy to large over mature red maple or in areas with plenty of advanced regen.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A mix of red maple, sugar maple, basswood, cherry, and aspen that meets minimum stocking criteria.</p> <p><u>Other Comment:</u> Include appropriate trail protection specs. May limit harvest to no snow conditions. Will attempt to reroute hiking trail in the NE corner of the sale before operations commence.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
13	52048013.10_Cut	100.0	4110 - Sugar Maple Association	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Release crop trees by selectively marking down to 80-90 square feet of residual basal area. Due to the presence of beech bark disease in this compartment, I would recommend removing all but the very smooth barked beech stems.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> The goal is to release crops trees within the residual stand while also opening up the canopy to promote natural northern hardwood regeneration.</p> <p><u>Other Comment:</u> Existing access is available but some road improvements will be required. A survey may be required to identify the private property lines on the north side of the stand. Old next step comments: The goal is to release crops trees within the residual stand while also opening up the canopy to promote natural northern hardwood regeneration.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</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
29 52048029.9_N F	16.5	3205 - Mixed Upland Shrub	Nonstocked			NonForestMgt	Other - Specify	3205 - Mixed Upland Shrub		No
<u>Prescription</u> Opening Maintenance <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Even though this is within the boundaries of the nominated Natural Area, it was decided that the management efforts intended by Wildlife <u>Comment:</u> Division would not be contrary to the intended goals for a Natural Area. <u>Site Condition</u> <u>Proposed Start Date:</u> 12/30/1899										
61 52048061.8_M onitor	63.5	4110 - Sugar Maple Association	Sawtimber Well	94	81-110	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven- Aged	No
<u>Prescription</u> Check regen <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Minimal acceptable stocking levels representative of over story species. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025										
64 52048064.7_M onitor	79.0	4110 - Sugar Maple Association	Sawtimber Well	100	81-110	Monitoring	Natural Regen (Intermediate)	4110 - Sugar Maple Association	Uneven- Aged	No
<u>Prescription</u> Regen survey TCR date plus 5 years <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Minimal acceptable stocking levels representative of over story species. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025										

Total Treatment 448.4
Acres Proposed:

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 48
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
204	83	0	122
148	0	0	148
7	7	0	0
8	0	0	8
98	98	0	0
43	43	0	0
12	0	0	12
1349	837	0	512
24	0	0	24
28	28	0	0
5	0	0	5
27	27	0	0
7	0	0	7
1,960	1,122		838
	57%		43%

Dominant Site Conditions

	Dominant Site Conditions											
	1A	1C	2F	2G	3A	3D	3J					
Aspen	26			0	59	13	25					
Cedar	107			14	0	0	26					
Low-Density Trees					0							
Lowland Conifers							8					
Lowland Shrub	0			0	0	0						
Marsh												
Mixed Upland Deciduous	0			12								
Northern Hardwood	0	34	9	0	447	22	0					
Upland Conifers				0	18		5					
Upland Shrub					0							
Upland Spruce/Fir					5							
Water					0		0					
White Pine					7							
Total Forested Acres	133	34	9	26	536	35	65					
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	3A: Conservation Values incompatible with harvest at this time	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Non Dedicated Natural Area							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 48
Year of Entry: 2023

3	Unavailable	3A: Conservation Values incompatible with harvest at this time	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Non Dedicated Natural Area							
4	Unavailable	1A: Federal/State/Local Law	107	3A: Conservation Values incompatible with harvest at this time	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments: Rich Conifer Swamp ERA, Non Dedicated Natural Area. Jordan River flows through portions of the stand, lots of small seeps and feeder streams as well.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3A: Conservation Values incompatible with harvest at this time	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Non Dedicated Natural Area							
7	Unavailable	3D: Recreational / Scenic values	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3A: Conservation Values incompatible with harvest at this time	19	3J: Water quality / BMPs (stream, river, or lake)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified
Comments: Non Dedicated Natural Area. Blocked by steep slopes to the south, and the Jordan River to the North.							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 48
Year of Entry: 2023

9	Unavailable	1A: Federal/State/Local Law	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3A: Conservation Values incompatible with harvest at this time	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Non Dedicated Natural Area							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 48
Year of Entry: 2023

15	Unavailable	3A: Conservation Values incompatible with harvest at this time	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Non Dedicated Natural Area							
16	Unavailable	3A: Conservation Values incompatible with harvest at this time	147	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2F: Too steep	Unspecified	Unspecified
Comments: Non Dedicated Natural Area. Stand is over 50 percent too steep to harvest, other portions of the stand are blocked by the steep ridge to the east and south, and the jordan river to the north and west.							
17	Unavailable	3A: Conservation Values incompatible with harvest at this time	27	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: Non Dedicated Natural Area. River to the north and west, and steep slopes to the south and east, severely limit access to this stand.							
18	Unavailable	3A: Conservation Values incompatible with harvest at this time	25	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Majority of this stand lies in a Non Dedicated Natural Area.							
19	Unavailable	3D: Recreational / Scenic values	22	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Warner Creek Pathway runs along the base of the stand, would be impossible to harvest unless we turned the pathway into a usable logging road. Some portions of stand are too steep to harvest.							
20	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 48
Year of Entry: 2023

21	Unavailable	3A: Conservation Values incompatible with harvest at this time	16	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Portions of NW too steep to harvest, majority of the stand lies in a Non Dedicated Natural Area.							
22	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	3A: Conservation Values incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Non Dedicated Natural Area							
24	Unavailable	3A: Conservation Values incompatible with harvest at this time	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Non Dedicated Natural Area							
25	Unavailable	3A: Conservation Values incompatible with harvest at this time	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Non Dedicated Natural Area							
26	Unavailable	3A: Conservation Values incompatible with harvest at this time	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Non Dedicated Natural Area							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 48
Year of Entry: 2023

27	Unavailable	3A: Conservation Values incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Non Dedicated Natural Area							
28	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	3A: Conservation Values incompatible with harvest at this time	7	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Non Dedicated Natural Area							
30	Unavailable	1C: Other dept or div proc/practices	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Portion of stand covered by non dedicated natural area							



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
O'Briens Pond	Habitat Area	Habitat Corridor	SCA Removal	118
Comments				
Area already protected through Jordan Valley Management Plan, recommend removal				



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 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.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
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	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	8.5	45	Unspecified	N/A	A multi-poly stand of two separate areas of dense conifer regen that may have developed following a blowdown event. The regen is 15-20 feet tall and includes a lot of cedar.																																																											
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2	4112 - Maple, Beech, Cherry Association	Poletimber Poor	2.9	51	1-50	N/A	A semi-open stand of cherry and open grown hardwoods.																																																											
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3	4112 - Maple, Beech, Cherry Association	Poletimber Well	20.5	50	1-50	N/A	Based on land record cards this stand was presumably cut in 1971. The basal area recorded was primarily in residual pole sized trees. The regeneration in my mind is definitely the dominant feature. There are some semi-open areas scattered throughout the stand. Much of the regen is over 40 feet tall. White pine while not a dominant species is very apparent in this stand.																																																											
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4	6120 - Lowland Cedar	Sawtimber Well	26.2	95	141-170	N/A	This stand transitions from uplands to the east to the low ground along Warner Creek to the west. Red maple is fairly common along the eastern edge. This is a multi-poly stand that also includes a small area on the west side of Warner Creek.																																																											
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5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.9	105	81-110	N/A	This stand was heavily thinned in the past resulting in a fairly open stand of large diameter trees with a very well developed understory. In general the quality of this stand is low with red maple making up a significant component of the stand. Due to stand size manage in conjunction with stand 1 in the adjacent compartment.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	6233 - Wet Meadow	Nonstocked	19.8		Immature	No	For the most part this is an open stand of marsh grass species. Immediately adjacent to Warner Creek, however, some stunted cedar do occur. Sand hill cranes noted during last inventory.
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8	4115 - Y.Birch, Hemlock NH	Poletimber Well	22.3	80	111-140	N/A	The majority of this stand lies on a steep west facing side hill. The red maple and yellow birch really distinguish this stand from those adjacent. There is also quite a heavy fir understory throughout this stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Pole	8		Sugar Maple	Low	>20 feet	Sapling
Red Maple	45	Log/Pole	10	80	Red Maple	Low	10 - 20 feet	Sapling
Yellow Birch	25	Pole	9		Beech	Low	5 - 10 feet	Sapling
Beech	5	Pole	9		Balsam Fir	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	5	Log	12		White Pine	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	8					
White Pine	5	Log/XLog	15					
Northern White Cedar	5	Pole/Log	9					

9	4110 - Sugar Maple Association	Sawtimber Well	69.6	105	51-80	N/A	Ironwood and beech responded immensely to harvest. Hardly any desirable species found in regen gaps (less than 100 TPA of maple/basswood). Any maple or basswood regen was browsed heavily. Discuss at compartment review. Harvested in 2016 and finished in 2018 with stand 7 in adjacent compartment. Thinned to 80 BA with regeneration gaps created.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	70	Log/Pole	10	105	Sugar Maple	Medium	>20 feet	Sapling
Red Maple	2	Pole	9		Beech	Medium	5 - 10 feet	Sapling
Basswood	22	Log/Pole	12		Ironwood	High	Variable	Sapling
Beech	2	Log	12					
Hemlock	2	Log	12					
Ironwood	2	Pole	7					

Old comment: This stand lies on fairly flat terrain and extends eastward into the adjacent compartment. It does not appear that it has ever been thinned in the past.

10	6233 - Wet Meadow	Nonstocked	13.1			No	A stand of lowland grass species growing along Warner Creek. Beavers are starting to impound stretches of the creek so some areas are currently flooded.
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11	4119 - Mixed Northern Hardwoods	Sawtimber Well	121.1	100	111-140	N/A	This stand lies on an east facing slope. Portions of stand to steep to cut. Red maple dominates in the southern half of the stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	33	Log/Pole	10	100	Sugar Maple	Medium	10 - 20 feet	Sapling
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12	6120 - Lowland Cedar	Poletimber Well	7.5	95	141-170	N/A	A narrow multi-poly stand lying at the base of a steep slope. The edge closest to the wetlands is quite wet with a lot of tag alder. The edge near the base of the slope is drier with more red maple mixed in. I used the same data as for the larger swamp conifer stand just to the north.																																																															
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13	4110 - Sugar Maple Association	Sawtimber Well	114.9	92	111-140	N/A	This stand was sold during the last Y.O.E. but was never cut. The stand quality is very nice awith many single stemmed crop trees. The stand lies on top of a ridge on flat terrain so it is certainly operable. The biggest drawback is the low stocking level.																																																															
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14	6239 - Mixed Emergent Wetland	Nonstocked	10.1		Unspecified	No	Most of this stand is dead standing cedar that was flooded by beaver activity. Only a few live trees are left.																																																															
15	4130 - Aspen	Sapling Well	20.1	37	1-50	N/A	This was harvested in 1984. The resulting regen is about 40-50 feet tall and is doing very well except for beaver damage along the lowland edges.																																																															
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17	500 - Water	Nonstocked	14.0			No	O'Brian's Pond.																																																															
18	4112 - Maple, Beech, Cherry Association	Poletimber Medium	32.4	80	51-80	N/A	This is a very poor quality stand of open grown hardwood. Due to the open character of the stand a well developed understory has developed. The stand occupies flat ground.																																																															
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19	4119 - Mixed Northern Hardwoods	Sawtimber Well	24.6	93	141-170	N/A	A similar stand to the sawlog sized stand further to the west. This is growing on a north facing slope. Quality of this stand is quite good.																																																						
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20	3205 - Mixed Upland Shrub	Nonstocked	2.3			No	This is quite an open stand. There are a few open grown hardwoods and quite a few apple trees.																																																						
24	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	29.8	90	81-110	N/A	Stand occupies a south facing slope. Aspen very apparent in this stand especially along the road and towards the toe of the slope. Some of the very steep slopes are only sparsely stocked.																																																						
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25	42330 - Upland Fir	Sawtimber Medium	5.5	76	51-80	N/A	Transition between the Jordan River Valley and the uplands to the south. Some open pockets that haven't filled in yet.																																																						
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26	429 - Mixed Upland Conifers	Poletimber Well	12.1	80	81-110	N/A	Most areas are heaviest to fir but some areas have a lot of white pine. There has been lots of recent windthrow in this stand.																																																						
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27	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	11.9	80	51-80	N/A	This is definitely a wet stand for a large part of the year. Lots of cradle knolls throughout the stand. There is also a very heavy lowland shrub understory. This stand is isolated from the lowlands along the river by a slight narrow ridge of uplands. West edge of the stand where hill levels off is very wet, noted cattails and other lowland species. Conifers concentrated in the southern portion of the stand, with larger white pine scattered throughout.																																																																
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29	3205 - Mixed Upland Shrub	Nonstocked	18.0			Managed Opening	This is a managed wildlife opening. Notes indicate that Siberian Crab were plated here in 1971 but I suspect other species may have been planted over the years as well. Windrows still exist from when the opening was created. ~ 2 acre hardwood pocket in NE corner of the opening.																																																																
30	4139 - Aspen, Mixed Deciduous	Sawtimber Well	35.1	90	51-80	N/A	This stand is very similar to the stand to the west on the other side of the river. This stand is on an upland site that appears to have a slightly higher water table. There is a very diverse understory.																																																																
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31	3205 - Mixed Upland Shrub	Nonstocked	3.6			Managed Opening	This is a managed wildlife opening. Notes indicate that Siberian Crab were plated here in 1971 but I suspect other species may have been planted over the years as well.																																																																
32	3205 - Mixed Upland Shrub	Nonstocked	2.3			Managed Opening	I believe that this is a wildlife opening. There is a lot of Siberian Crab in it along with some cherry.																																																																
33	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	11.4	80	81-110	N/A	A narrow stand along the river that is predominately upland although there are occasional pockets of low ground included.																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
34	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	6.5	50	111-140	N/A	This is a multi-poly stand of planted white pine. Apparently a Boy Scout troop planted this in 1971. Growth rates are very impressive since most stems are 10 inches in DBH.																																																		
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35	4110 - Sugar Maple Association	Sawtimber Well	77.5	90	81-110	N/A	This is a very low quality stand dominated by small diameter basswood clumps. Stand lies on flat terrain. The understory is fairly dense and well developed.																																																		
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36	4130 - Aspen	Sawtimber Medium	26.0	90	1-50	N/A	An over-mature stand of aspen on a seasonally wet site. Lots of mortality which is why the basal area is so low. There is a very heavy and complex understory that most likely holds a lot of birds. A few big white pine are scattered throughout. I have also included a couple of small patches of low quality northern hardwood within this stand that were too small for mapping standards.																																																		
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37	4110 - Sugar Maple Association	Sawtimber Well	36.4	92	141-170	N/A	Stand of fairly nice quality hardwood on slightly rolling terrain. This is a lot nicer than the stand adjacent to the west. Stand has a light understory.																																																		
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39	4130 - Aspen	Poletimber Well	11.0	38	1-50	N/A	This is a multi-poly stand of aspen regen. which resulted from a 1983 harvest. Portions of both units of this stand extend west into the adjacent compartment.																																																		
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40	6229 - Mixed lowland shrub	Nonstocked	97.6			No	This stand straddles both sides of the Jordan River for a considerable distance. Various lowland shrub species are represented. Some areas of open marshland also were found.																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
41	4116 - Mixed N. Hardwood - Aspen	Sawtimber Medium	51.8	90	51-80	N/A	This is a highly variable, generally low quality stand growing on a dry upland site. Aspen is more prevalent closer to the river while open grown hardwoods dominate on the higher ground. The aspen is over-mature and are slowly being eliminated by beaver activity. There is a very complex and heavy understory throughout the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
American Elm		2	Pole	8		Red Maple		Medium	Variable	Sapling
Red Maple		10	Pole	7		Beech		Low	5 - 10 feet	Sapling
Basswood		50	Log/Pole	11	90	Ironwood		Medium	Variable	Sapling
Quaking Aspen		15	Log/Pole	10		Hawthorn (spp.)		Low	5 - 10 feet	Tall Shrub
Black Cherry		10	Pole	9		Pin Cherry		Medium	Variable	Sapling
Paper Birch		1	Pole	8		Common Or Ground Juniper		Trace	5 - 10 feet	Tall Shrub
Bigtooth Aspen		12	Pole/Log	9		Serviceberry (Juneberry)		Trace	10 - 20 feet	Sapling
						Sugar Maple		Medium	Variable	Sapling
42	4110 - Sugar Maple Association	Sawtimber Well	27.2	92	111-140	N/A	2 active RSH nests found during previous inventory. Stand is mainly an east facing slope, a few steep areas but operable, good quality hardwood.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		60	Log/Pole	12	92	Sugar Maple		Low	Variable	Sapling
Basswood		30	Log/Pole	12		Beech		Low	5 - 10 feet	Sapling
Beech		10	Log/Pole	12		Ironwood	Low	10 - 20 feet	Sapling	
43	3301 - Low Density Deciduous Trees	Nonstocked	4.6			No	Primarily scattered cherry with some open grown hardwoods. This appears to be a low quality, dry site. Spotted knapweed present.			
44	4110 - Sugar Maple Association	Poletimber Well	133.6	89	81-110	N/A	This is a low quality stand with a heavy percentage of basswood clumps. The stand occupies flat terrain for the most part but a narrow east facing slope was also included near the Jordan Valley Road. The stand has a well developed understory. Better quality along the east facing slope.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		31	Log/Pole	11	89	Beech		Low	10 - 20 feet	Sapling
Red Maple		5	Log/Pole	10		Ironwood		Medium	>20 feet	Sapling
Basswood		45	Pole/Log	9	89	Witch Hazel		Low	10 - 20 feet	Tall Shrub
Beech		5	Log/Pole	10		Sugar Maple		Low	Variable	Sapling
Bigtooth Aspen		5	Log/Pole	11						
Black Cherry		5	Pole/Log	9						
American Elm		2	Log/Pole	10						
Ironwood		2	Pole	6						
46	4130 - Aspen	Sapling Poor	9.4	16	Immature	N/A	This stand was included in the harvest of the surrounding aspen stand. This was already a poorly stocked stand before the harvest and it has not really regenerated except for a few isolated clones of aspen that are coming back. Lots of black berry.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		70	Sapling	2	16	Honeysuckle (spp.)		Trace	5 - 10 feet	Tall Shrub
Black Cherry		20	Sapling	2		Red Maple		Low	5 - 10 feet	Sapling
Red Maple		10	Sapling	2		Black Cherry		Low	5 - 10 feet	Sapling
						Serviceberry (Juneberry)		Trace	5 - 10 feet	Sapling
						Witch Hazel	Low	5 - 10 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
47	4130 - Aspen	Sapling Well	37.5	16	Immature	N/A	Stand was cut in 2004-2005. Woody species beginning to out compete large amounts of blackberry and raspberry recorded in the previous inventory. Widely scattered hardwood residual was left throughout in addition to all elm, white pine and upland shrubs.																																																									
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48	4110 - Sugar Maple Association	Sawtimber Poor	9.4	92	1-50	N/A	A semi-open stand. Open grown hardwoods are found toward the west but cherry dominate along the road.																																																									
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49	6120 - Lowland Cedar	Poletimber Well	107.4	100	141-170	N/A	Overall this is a mixed swamp conifer stand that is quite wet. Cedar dominates especially near the river and seeps. Black spruce is more prevalent on the better drained areas of the stand. Some portions of the stand are intermixed with patches of open marsh.																																																									
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50	4130 - Aspen	Sawtimber Well	12.5	90	81-110	N/A	An over-mature stand of aspen which again was apparently left as a visual buffer when the adjacent stand was cut. Portions of the stand nearest the river are experiencing beaver damage.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
51	4119 - Mixed Northern Hardwoods	Sawtimber Well	146.8	95	81-110	N/A	The stand occupies a steep west facing side hill below Deadman's Hill overlook. Some of the steepest, most exposed slopes are sparsely stocked. Lower slopes tend to be better quality. There is a well developed understory.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		30	Log/Pole	10	95	Sugar Maple		
Basswood		20	Log/Pole	11		Beech		
Beech		20	Log/Pole	11		Ironwood		
Bigtooth Aspen		10	Log/Pole	10		Serviceberry (Juneberry)		
Red Maple		18	Log/Pole	10				
Yellow Birch		2	Pole/Log	8				
52	4139 - Aspen, Mixed Deciduous	Poletimber Well	18.6	90	81-110	N/A	This is a dry stand at the base of a steep slope. It also lies adjacent to an area of lowlands and has suffered past beaver damage along the wetland edges. The aspen component is over-mature and falling apart. The understory is well developed and is slowly replacing the stand as the aspen continues to die out.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		30	Pole/Log	9		Sugar Maple		
Red Maple		10	Log/Pole	10		Red Maple		
Yellow Birch		1	Pole	9		Beech		
Bigtooth Aspen		50	Log/Pole	10	90	Ironwood		
Black Cherry		5	Pole	9		Pin Cherry		
Beech		1	Log	12		Serviceberry (Juneberry)		
Basswood		3	Log/Pole	10		Striped Maple		
53	4139 - Aspen, Mixed Deciduous	Sawtimber Well	5.0	85	51-80	N/A	Stand of over-mature aspen that lies on the lower slopes and bottomlands along an area of cedar springs.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		10	Pole/Log	9		Sugar Maple		
Red Maple		35	Log/Pole	10		Red Maple		
Yellow Birch		2	Pole	9		Beech		
Quaking Aspen		45	Log/Pole	12	85	Ironwood		
Black Cherry		8	Pole	9		Pin Cherry		
54	500 - Water	Nonstocked	13.2			No	This is open water for the most part. Some areas of marsh though do exist as well. A tributary to the Jordan flows through this stand.	
55	4130 - Aspen	Poletimber Medium	24.8	85	51-80	N/A	This stand apparently has a high water table as there is a seep that begins within the stand which eventually forms a small tributary to the Jordan. Where this tributary intersects with the hiking trail a small 1/2 acre stand of Phragmites has developed in a partially flooded portion of the stand. It is unknown at this time if the Phragmites is native or invasive. The timber in the stand is often sparse with lowland conifer species occurring frequently throughout the stand. Several large white pine are also in the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		20	Pole/Log	9		Red Maple		
Quaking Aspen		68	Pole/Log	9	85	Beech		
White Spruce		5	Pole	8		White Spruce		
Northern White Cedar		2	Pole	7		Ironwood		
White Pine		2	Log	14		Witch Hazel		
Yellow Birch		1	Pole	6		Pin Cherry		
Paper Birch		2	Pole	8		White Pine		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
56	4110 - Sugar Maple Association	Sapling Well	8.9	26	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Sugar Maple		60	Sapling	2	26		
Black Cherry		20	Sapling	3			
Beech		10	Sapling	2			
Ironwood		10	Sapling	2			
57	6120 - Lowland Cedar	Sawtimber Well	6.6	100	111-140	N/A	This is a small isolated stand of swamp conifers growing at the base of a very steep side hill. Numerous springs seep out of this stand forming a tributary to the Jordan River.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		10	Pole/Log	9			
Northern White Cedar		85	Log/Pole	13	100		
Yellow Birch		5	Pole	8			
58	4110 - Sugar Maple Association	Sawtimber Well	57.0	93	111-140	N/A	This stand lies on a steep north/east facing side hill. This is nice quality hardwood with a light understory. Beech bark disease is in this stand. Hiking trail runs along SE boundary of the stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Sugar Maple		47	Log/Pole	10	93		
Red Maple		3	Log/Pole	10			
Yellow Birch		1	Log/Pole	10			
Basswood		48	Log/Pole	10	93		
Beech		1	Log	12			
Sub-Canopy Species		Density	Avg. Height	Size			
Sugar Maple		Low	>20 feet	Sapling			
Beech		Low	10 - 20 feet	Sapling			
Ironwood		Low	10 - 20 feet	Sapling			
59	4110 - Sugar Maple Association	Sawtimber Well	33.5	97	111-140	N/A	This stand lies on flat ground at the top of a steep slope that drops off to the north. It is much better quality than the stand further to the south. Non existent understory. Quite a few maple seedlings that germinated this year, and then all saplings are a minimum of 20 feet tall, nothing in the middle.
Canopy Species		% Cover	Size Class	DBH	Age		
Sugar Maple		60	Log/Pole	11	97		
Basswood		40	Log/Pole	11			
Sub-Canopy Species		Density	Avg. Height	Size			
Sugar Maple		Medium	>20 feet	Sapling			
Beech		Medium	5 - 10 feet	Sapling			
Ironwood		Medium	>20 feet	Sapling			
60	4110 - Sugar Maple Association	Poletimber Well	6.3	31	1-50	N/A	Scattered open grown hardwood trees seem to have seeded in this stand. Well developing understory dominated by sugar maple saps and small poles. Age of trees is estimate considering difficulty of getting a decent tree core. Size is similar to stand 63 so age was estimated to be similar.
Canopy Species		% Cover	Size Class	DBH	Age		
Sugar Maple		70	Pole/Sapling	5	31		
Red Maple		5	Pole	9			
Basswood		5	Log	10			
Beech		5	Pole	8			
Black Cherry		5	Pole/Sapling	5			
Ironwood		10	Pole/Sapling	5			
Sub-Canopy Species		Density	Avg. Height	Size			
Sugar Maple		Medium	>20 feet	Sapling			
Beech		Low	10 - 20 feet	Sapling			
Ironwood		Medium	10 - 20 feet	Sapling			
Serviceberry (Juneberry)		Low	10 - 20 feet	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
61	4110 - Sugar Maple Association	Sawtimber Well	63.9	94	81-110	N/A	This is a nice quality stand growing on flat terrain. Basswood is still multiple stemmed but sugar maple is largely single stemmed. A small semi-open area lies adjacent to the farm field in the far northern portion of the stand. This area was too small to delineate out as a separate stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		57	Log/Pole	10	94	Sugar Maple		
Basswood		32	Log/Pole	12		Beech		
Hemlock		1	Log	12		Ironwood		
Beech		5	Log/Pole	10		Basswood		
Red Maple		5	Log/Pole	10				
62	4110 - Sugar Maple Association	Sapling Medium	2.5	26	Immature	N/A	A few open pockets, but feeling in well with sugar maple saplings. Scattered large white pine have a few seedlings/saplings coming in as well. White pine age was cored, age of saplings was estimated.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		65	Sapling/Pole	4	26	Sugar Maple		
White Pine		10	Log	14	97	Ironwood		
Black Cherry		15	Sapling/Pole	4		Red Maple		
Paper Birch		1	Pole	8		White Pine		
Bigtooth Aspen		5	Pole/Log	9		Serviceberry (Juneberry)		
Red Maple		4	Sapling/Pole	4				
63	4119 - Mixed Northern Hardwoods	Poletimber Well	41.1	37	1-50	N/A	This stand was cut in 1984. The parent stand did have some aspen in it and it has regenerated in isolated portions of the stand. Northern hardwood regen is still dominant though. Aspen is far out distancing the hardwood regen both in height and diameter growth.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		65	Pole/Sapling	5	37	Pin Cherry		
Bigtooth Aspen		5	Pole	6		Sugar Maple		
Ironwood		10	Sapling/Pole	4		Serviceberry (Juneberry)		
Pin Cherry		8	Pole/Sapling	5				
Red Maple		5	Pole/Sapling	5				
Quaking Aspen		5	Pole	6				
American Elm		1	Pole	6				
Paper Birch		1	Pole	5				
64	4110 - Sugar Maple Association	Sawtimber Well	82.6	100	81-110	N/A	This is a moderate quality hardwood stand. It is much nicer than the stand to the west but not as nice as the stand to the northeast. This stand still has a lot of multiple stemmed clumps in it.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		50	Log/Pole	10	100	Beech		
Red Maple		5	Log/Pole	10		Ironwood		
Basswood		35	Log/Pole	10				
Beech		9	Log/Pole	10				
Bigtooth Aspen		1	Pole/Log	9				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
65	4112 - Maple, Beech, Cherry Association	Sawtimber Well	72.4	80	51-80	N/A	This is a very poor quality stand on rolling terrain. Many of the south facing slopes are sparsely stocked with stunted timber. Some slopes dominated by beech brush/saplings and serviceberry.																																																								
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66	4119 - Mixed Northern Hardwoods	Sapling Well	35.6	37	1-50	N/A	This northern hardwood stand was final harvested in 1984. The resulting regen is very heavy to cherry with very little aspen anywhere in the stand. The south end of the stand is poorer quality. Some jack pine have been planted along the road in an effort to control vehicle access to the interior road system. Only a couple of residual trees were left in the sale area.																																																								
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67	3205 - Mixed Upland Shrub	Nonstocked	1.9			No	A very open stand of scattered cherry.																																																								
68	4130 - Aspen	Poletimber Well	4.4	37	1-50	N/A	This stand was part of a 1984 timber sale that also included the adjacent stand of hardwood regen. This must have been the only clone of aspen within the parent stand. The regen here is approaching 50 feet tall and some individual stems are reaching merchantable size.																																																								
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70	330 - Low-Density Trees	Nonstocked	2.4		Immature	No	opening filling in with white pine and black cherry. Witch hazel present.																																																								