



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32292

Entry Year 2024

Acreage: 893

County Marquette

Management Area: Sand River Lake Plain

Stand Examiner: Rick Hill

Legal Description:

T46N-R23W sections 2 and 3

Identified Planning Goals:

Vegetative management in the Sand River Lake Plain management area will provide a variety of forest products; maintain or enhance wildlife habitat; protect areas with unique characteristics; and provide for forest based recreational uses.

Soil and topography:

Soils are predominately poorly drained rocky loams to moderately drained loamy sands. Topography is level to slightly undulating.

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

Various ownerships surround this compartment including industrial forest lands, USFS (Dukes Experimental Forest) , and smaller non industrial private tracts. Predominate land use is forest production and recreation.

Unique Natural Features:

An Element occurrence for a forest community is present within the compartment. The Dukes Experimental Forest is just south of the compartment, this area was home to some of the original northern hardwood research done in the US.

Archeological, Historical, and Cultural Features:

None identified with HAL. This compartment is crisscrossed with old logging railroad grades from the early 1900s.

Special Management Designations or Considerations:

Both cold water stream riparian management zones (RMZs) and ecological reference areas (ERAs) are present. The ERA will have a plan covering management. Cold water RMZs will be managed to conserve stream quality and maintain cold temperatures.

Watershed and Fisheries Considerations:

The Sand River is located on the east end of this compartment which serves as a steelhead nursery in specific reaches. The Sand River and tributaries are all designated trout streams and supplied through groundwater. Extra precautions should be taken in this area to minimize disturbances along these streams and drains. If there are any drainages in 16 and 19, please place a minimum 100' buffer along the drains in both directions.

Wildlife Habitat Considerations:

Compartment 292 is found within the Sand River Lake Plain Management Area, on a Till-floored Lake Plain in northeastern Marquette County. The dominant Natural Communities are mesic northern forest and poor conifer swamps. Major forest cover types include Northern Hardwoods, Aspen, and Hemlock. Wildlife species considerations in the Sand River Lake Plain Man include managing to provide coniferous thermal cover for deer wintering complexes. The emphasis should be on hemlock in this management area as it represents approximately 20% of the WUP hemlock resource. Along with maintaining wildlife movement corridors along vernal and permanent riparian watercourses is also very important. Wildlife management issues in the management area are: habitat fragmentation; course woody debris; retain or develop large living and dead standing trees (for cavities); mesic conifer; mature forest; within-stand diversity; and deer wintering complexes.

The following have been identified as featured species for the Sand River Lake Plain Management Area: American marten, Blackburnian warbler, red-shouldered hawk, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. No known active sand/gravel pits occur in the area. Glacial drift is thin or absent and bedrock is at or near the surface across much of the compartment. There may be potential for sand within the compartment. There is no known potential for metallic minerals beneath the compartment. No known ground-based exploration has occurred, and there has been no recent State mineral leasing activity in the area.

Vehicle Access:

Access is quite poor consisting of closed forest access routes off of DNR roads that are typically quite rough.

Survey Needs:

Any needed surveys will be done before timber sales are prepped in this area.

Recreational Facilities and Opportunities:

There are no recreational facilities in this area, and few opportunities for future development. Recreation in this area will continue to be dispersed hunting and fishing.

Fire Protection:

Soils and forest types here ensure that fires will be relatively rare here.

Additional Compartment Information:

The following reports from the Inventory are attached:

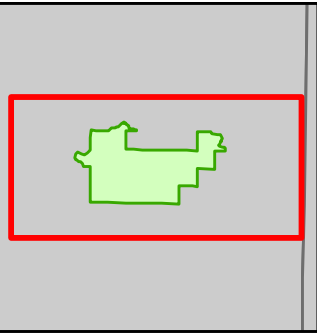
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

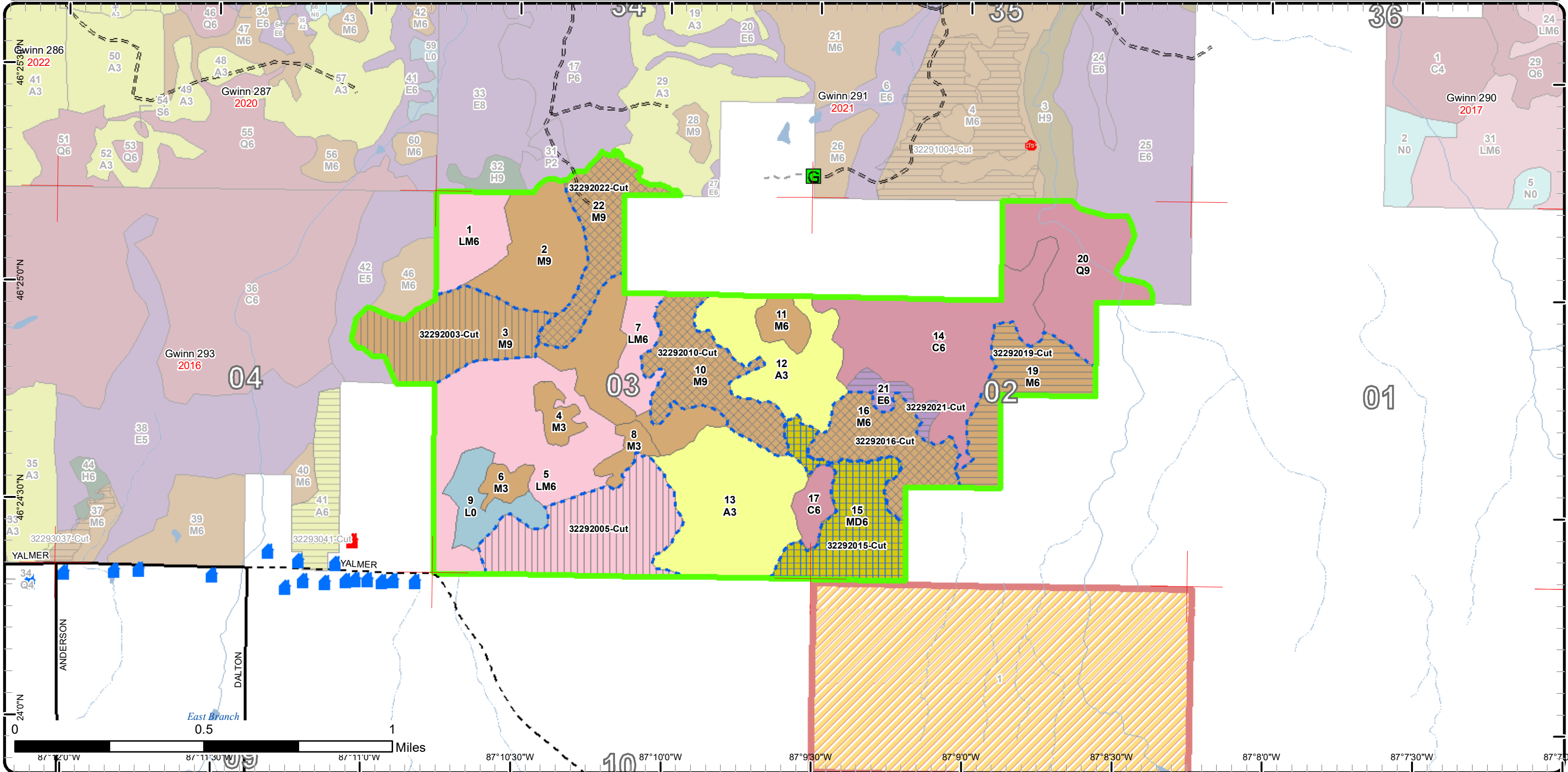
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 292
 T46N, R23W, Sec: 02, 03
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Sand River Lake Plain
 YOE: 2024
 Acres: 893.4 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/4/2022
 Map Phase: Web-Post

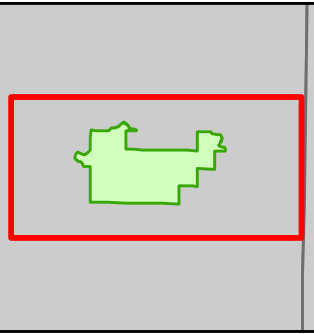


- Miris Corners
- Counties
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Cabin
- House
- Gate
- Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub

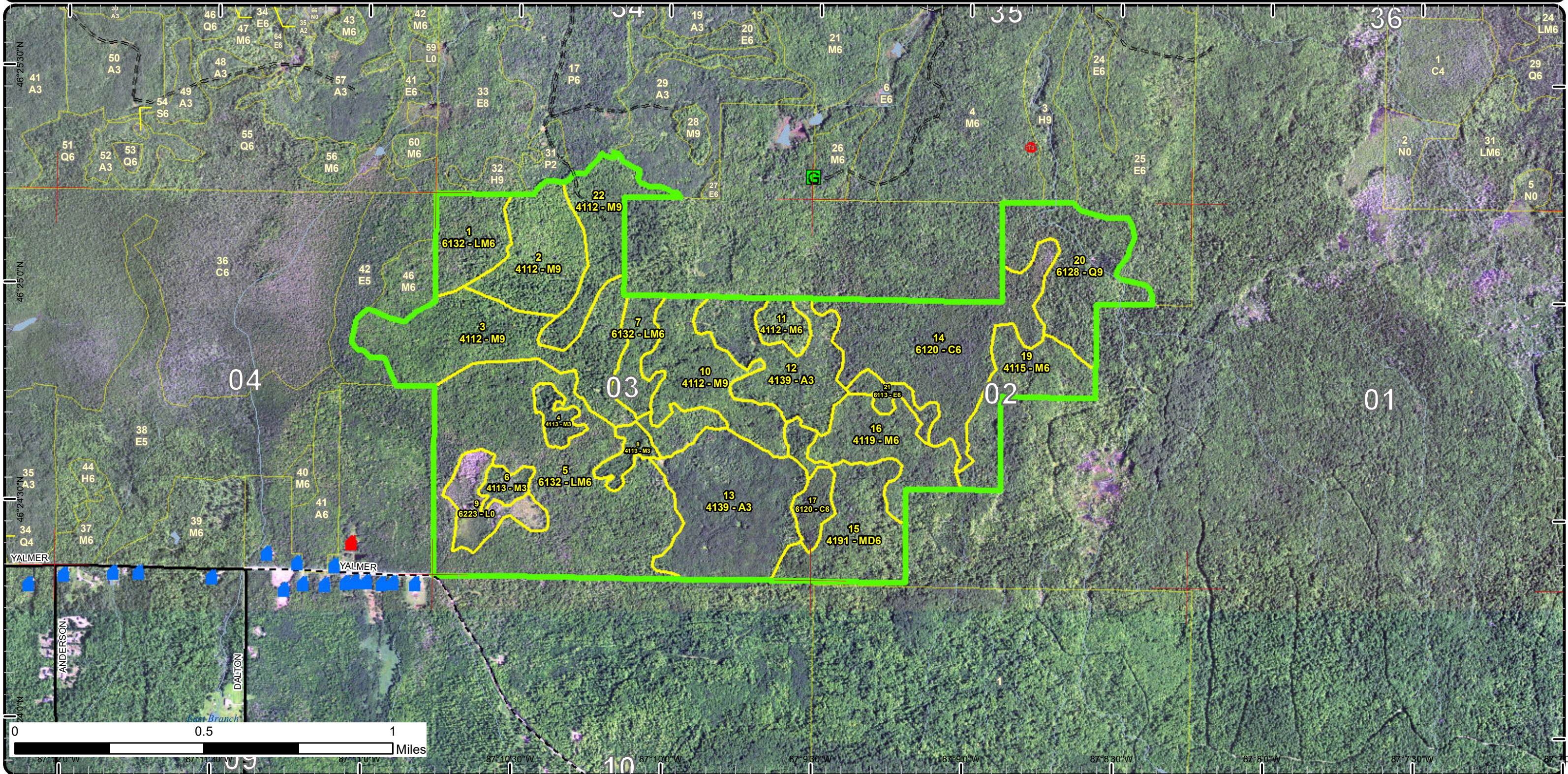


Stand Boundary Map

Compartment: 292
 T46N, R23W, Sec: 02, 03
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Sand River Lake Plain
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 Acres: 893.4 GIS Calculated
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 Map Phase: Web-Post

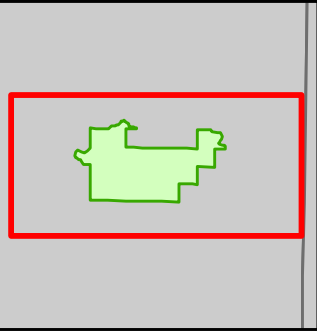


- Miris Corners
 - Counties
 - DNR - Forest Access Route
 - Federal / State / County - Paved Road
 - Federal / State - Dirt / Gravel Road
 - Private - Dirt / Gravel Road
 - Cabin
 - House
 - G Gate
 - STOP Sign
 - Intermittent Stream
 - Lake/Pond
 - Perennial River
 - Lakes and Rivers
- Compartment Boundary
 - Stand Boundaries
 - 411 - Northern Hardwood
 - 413 - Aspen
 - 419 - Mixed Upland Deciduous
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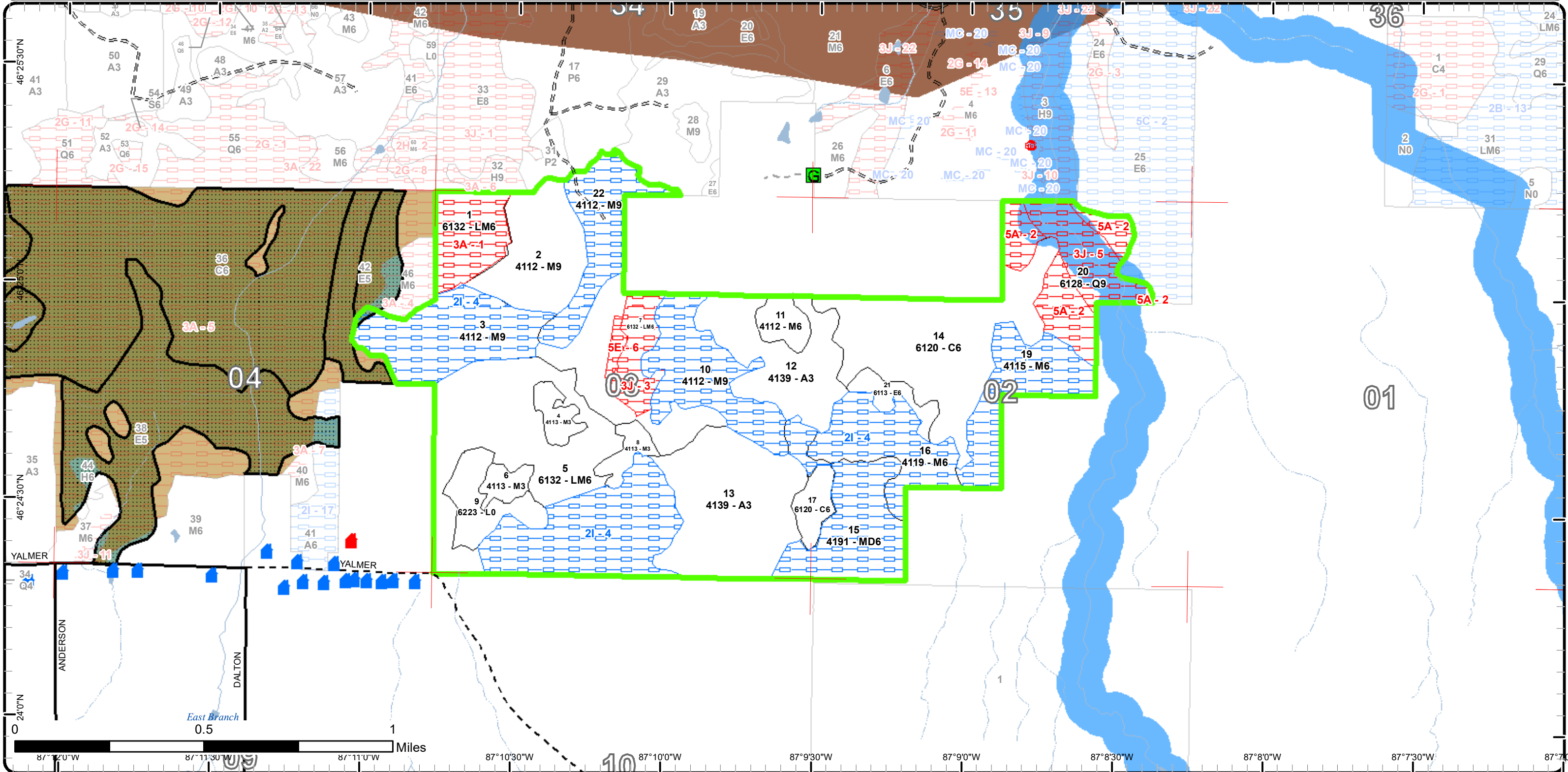


Special Conservation Areas

Compartment: 292
 T46N, R23W, Sec: 02, 03
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Sand River Lake Plain
 YOE: 2024
 Acres: 893.4 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/4/2022
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- Miris Corners
- Counties
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Cabin
- House
- Gate
- Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Forest Habitat Core Interior
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- Vernal Pool



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	50	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127
Cedar	0	0	0	0	0	0	0	0	0	0	0	99	0	0	0	0	0	0	98
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	0	58
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	199	0	0	0	0	0	0	198
Lowland Shrub	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	51	0	0	0	0	0	0	51
Northern Hardwood	0	0	23	0	0	0	0	0	0	0	0	298	0	0	0	0	0	10	331
Total	21	0	73	77	0	0	0	0	0	0	0	715	0	0	0	0	0	10	892



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 292
Total Compartment Acres: 893

Commercial Harvest - 9
Harvests with Site Condition - 332
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
Lowland Deciduous	9	0	0	0	0	0	0	0	0	9
Lowland Mixed Forest	0	0	0	0	66	0	0	0	0	66
Mixed Upland Deciduous	0	0	0	51	0	0	0	0	0	51
Northern Hardwood	40	123	0	0	53	0	0	0	0	215
Total	49	123	0	51	119	0	0	0	0	341

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	341	0	0	0	0	0	0	0	0	341
Next Step	0	0	0	0	0	0	341	0	0	341
Total	341	0	0	0	0	0	341	0	0	683



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat
											Cut

Proposed Treatments:

3	32292003-Cut	52.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	104	81-110	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees leaving hemlock, cedar, yellow birch, white pine and beach within the cutting unit. Cut down to two inches in diameter. Green tree a few widely scattered maple with good genetics. Also mark a few white ash to leave favoring healthy trees. these trees will be future cavity trees and provide nurse logs. Retention for this stand is along stand 7 to insure that a buffer is in place for a small intermittent creek in stand 7.</p> <p><u>Next Step:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Maple, hemlock, basswood, spruce, fir</p> <p><u>Other Comment:</u> include 32293041, 32293037</p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
5	32292005-Cut	66.4	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	104	111-140	Harvest	Shelterwood with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all trees leaving only yellow birch, hemlock, and cedar. If too dense allow for the harvest of hemlock and cedar for operations (exception spec). Cut down to 2 inches DBH to allow stand to regenerate properly. Retention should be focused on areas with high stocking of hemlock or cedar. Retention will include ash if possible. Cut on frozen ground to protect soil productivity and cedar and hemlock root systems.</p> <p><u>Next Step:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, red maple, spruce, fir, hemlock, cedar, aspen, other mixed lowland species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
10	32292010-Cut	46.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	104	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Cut using a selection system leaving 80 SQ Ft. Use the complete marker as a guide. Cut all ash, and fir. In wet areas dominated by red maple take BA down to 60-70 SQ Ft. Do not mark any hemlock or cedar. Per the complete marker mark to increase lesser occurring species including basswood. Mark a few ash to leave for snags and nurse logs. when marking leave a few beach that look like they may be resistant to BBD or will provide good wildlife snag value.</p> <p><u>Next Step:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mixed northern hardwood</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
15 32292015-Cut	50.5	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	100	51-80	Harvest	Seed Tree with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all trees leaving only yellow birch, hemlock, white pine and cedar within the harvest area. Focus area retention on areas of dense cedar and hemlock. If too dense allow for the harvest of hemlock and cedar for operations (exception spec). Cut on frozen ground to protect soil productivity and hemlock and cedar root systems.</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> aspen, maple, spruce, fir</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
16 32292016-Cut	39.3	4119 - Mixed Northern Hardwoods	Poletimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Cut using a selection system leaving 80 SQ Ft. Use the complete marker as a guide. Per the complete marker mark trees to increase the abundance of lesser occurring species including yellow birch. Cut all ash, and fir. In wet areas dominated by red maple take BA down to 60-70 SQ Ft. do not mark any hemlock or cedar.</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> Mixed Northern hardwood</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
19 32292019-Cut	39.7	4115 - Y.Birch, Hemlock NH	Poletimber Well	100	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all trees down to two inches leaving only yellow birch, hemlock, white pine and cedar within the harvest area. Focus area retention on areas of dense cedar and hemlock. If too dense allow for the harvest of hemlock and cedar for operations (exception spec). Cut on frozen ground to protect soil productivity and hemlock and cedar root systems.</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> Northern Hardwood, spruce, aspen</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	21 32292021-Cut	9.2	6113 - Lowland Maple	Poletimber Well	100	51-80	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
	<p><u>Prescription</u> Harvest all trees down to two inches leaving only yellow birch, hemlock, white pine and cedar within the harvest area. Focus area retention</p> <p><u>Specs:</u> on areas of dense cedar and hemlock. If too dense allow for the harvest of hemlock and cedar for operations (exception spec). Cut on frozen ground to protect soil productivity and hemlock and cedar root systems.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> maple, spruce, fir</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
	22 32292022-Cut	37.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	104	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
	<p><u>Prescription</u> Cut using a selection system leaving 80SQ Ft. Use the complete marker as a guide. Per the complete marker mark trees to increase the</p> <p><u>Specs:</u> abundance of lesser occurring species including yellow birch and basswood. Cut all ash, and fir. In wet areas dominated by red maple take BA down to 60-70 SQ Ft. do not mark any hemlock or cedar. Mark a few ash to leave for snags and nurse logs. leave a few beech that look to be BBD resistant. Also leave a few beech that are good wildlife snags or may be hollow.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Maple, basswood, and hemlock</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment 341.4
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 292
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions				
		With Condition			2I	3A	3J	5A	5E
127	127	0	0	Aspen					
98	98	0	0	Cedar	0				
59	0	0	59	Lowland Conifers			26	33	
9	9	0	0	Lowland Deciduous					
198	87	66	45	Lowland Mixed Forest	66	27	18		
21	21	0	0	Lowland Shrub					
51	0	50	0	Mixed Upland Deciduous	50				
331	112	215	3	Northern Hardwood	215	0			3
893	455	332	106	Total Forested Acres	332	27	44	33	3
	51%	37%	12%	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	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: MNFI rich conifer swamp.							
2	Unavailable	5A: Not able to obtain desirable regeneration	33	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Hemlock stand							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 292
Year of Entry: 2024

4	Available	2I: Survey needed	332	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	26	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	27.7	104	81-110	N/A	MNFI rich conifer swamp.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	4	Pole	9		Balsam Fir	Low	< 5 feet	Sapling
Northern White Cedar	26	Pole	7		Hemlock	Medium	5 - 10 feet	Sapling
Black Ash	20	Pole	6		Northern White Cedar	Low	5 - 10 feet	Sapling
Yellow Birch	2	Pole/Log	9		Black Ash	Medium	10 - 20 feet	Sapling
Hemlock	26	Log/Pole	12	104	Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	2	Pole	7		Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	20	Pole/Log	9					

2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	43.8	104	81-110	N/A	Harvested in 1998: TS#25-94. Significant wind throw from storm of 7/21/02. Minor component of spruce-fir and white pine in sub-canopy.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	2	Log/Pole	13		Ironwood	Medium	10 - 20 feet	Tall Shrub
Yellow Birch	2	Pole/Log	10		Beech	Low	5 - 10 feet	Sapling
White Ash	5	Pole/Log	10		Hemlock	Low	>20 feet	Pole
White Pine	2	Log	16		Black Cherry	Medium	10 - 20 feet	Sapling
Hemlock	5	Log/Pole	14		Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	30	Log/Pole	13		Sugar Maple	High	10 - 20 feet	Sapling
Sugar Maple	40	Log/Pole	13	104				
Black Cherry	11	Pole/Log	10					
Beech	3	Log/Pole	13					

3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	91.4	104	81-110	N/A	Harvested in 2008: TS#124-05-01. Stand suffered significant wind throw on 7/21/02. stand is poorer quality with a habitat type of TMC. Should look to manage using an even age system.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Log/Pole	12	104	Red Maple	Medium	5 - 10 feet	Sapling
Red Maple	30	Log/Pole	12		Sugar Maple	High	5 - 10 feet	Sapling
Yellow Birch	2	Pole/Log	10		Beech	Low	5 - 10 feet	Sapling
White Ash	18	Log/Pole	13		Balsam Fir	Low	5 - 10 feet	Sapling
					Hemlock	Low	>20 feet	Pole
					Ironwood	Medium	5 - 10 feet	Tall Shrub

4	4113 - R.Maple, Conifer	Sapling Well	8.3	14	1-50	N/A	Harvested in 2008: TS#124-05-01
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	68	Sapling	1	14	Balsam Fir	Medium	< 5 feet	Sapling
Black Ash	5	Pole/Sapling	5		Tag Alder	Low	5 - 10 feet	Tall Shrub
Yellow Birch	2	Pole	7		Red Maple	High	< 5 feet	Sapling
Bigtooth Aspen	5	Sapling	1					
Balsam Fir	10	Sapling/Pole	2					
Northern White Cedar	5	Sapling/Pole	4					
Hemlock	5	Sapling/Pole	2					



Stand **Level 4 Cover Type** **Size Density** **Acres** **Stand Age** **BA Range** **Managed Site** **General Comments**

5 6132 - Mixed Lowland Forest with Cedar Poletimber Well 153.0 104 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	2	Pole	7		Red Maple	Low	5 - 10 feet	Sapling
Northern White Cedar	20	Pole	7		Beech	Low	5 - 10 feet	Sapling
White Pine	2	Log/Pole	12		Balsam Fir	High	10 - 20 feet	Sapling
Red Maple	30	Pole/Log	9	104	Hemlock	Low	5 - 10 feet	Sapling
Hemlock	20	Pole/Log	10		Black Ash	Low	10 - 20 feet	Sapling
Yellow Birch	2	Pole/Log	9		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Black Ash	10	Pole	7					
White Ash	2	Pole	8					
Balsam Fir	10	Pole	7					
White Spruce	2	Pole	7					

6 4113 - R.Maple, Conifer Sapling Well 6.9 14 1-50 N/A Harvested in 2008: TS#124-05-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	5	Sapling/Pole	2		Balsam Fir	Medium	< 5 feet	Sapling
Northern White Cedar	5	Pole/Sapling	4		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Ash	5	Pole/Sapling	5		Red Maple	High	< 5 feet	Sapling
Yellow Birch	2	Pole	7					
Bigtooth Aspen	5	Sapling	1					
Balsam Fir	10	Sapling/Pole	2					
Red Maple	68	Sapling	1	14				

7 6132 - Mixed Lowland Forest with Cedar Poletimber Well 17.8 104 81-110 N/A Leave stand for water quality on intermittent creek or drainage that runs through the stand. Stand will also act as retention area for adjacent stands.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	Log/Pole	12		Red Maple	Low	5 - 10 feet	Sapling
Red Maple	30	Pole/Log	9	104	Beech	Low	5 - 10 feet	Sapling
Hemlock	20	Pole/Log	10		Black Ash	Low	10 - 20 feet	Sapling
Yellow Birch	2	Pole/Log	9		Balsam Fir	High	10 - 20 feet	Sapling
Black Ash	10	Pole	7		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
White Ash	2	Pole	8		Hemlock	Low	5 - 10 feet	Sapling
White Spruce	2	Pole	7					
Balsam Fir	10	Pole	7					
Black Spruce	2	Pole	7					
Northern White Cedar	20	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
8	4113 - R.Maple, Conifer	Sapling Well	8.1	14	1-50	N/A	Harvested in 2008: TS#124-05-01.																																																																
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9	6223 - Inundated Shrub Swamp	Nonstocked	20.5			No	Abandoned beaver flooding.																																																																
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10	4112 - Maple, Beech, Cherry Association	Sawtimber Well	46.2	104	111-140	N/A	Stand was prepared last entry period but never harvested. Stand is of moderate quality with a fair amount of defect present in the stand. Habitat type (ATD) of the majority of the stand indicates the stand will respond to single tree selection.																																																																
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12	4139 - Aspen, Mixed Deciduous	Sapling Well	50.0	14		N/A	Harvested in 2008: TS#125-04-01.																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13 4139 - Aspen, Mixed Deciduous Sapling Well 76.6 23 N/A Harvested in 1999: TS#19-94-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Sapling	2		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	2	Pole/Sapling	5		Willow spp.	Low	5 - 10 feet	Tall Shrub
White Pine	2	Log/Pole	14		Red Maple	Medium	10 - 20 feet	Sapling
Hemlock	2	Pole/Sapling	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch	2	Sapling	2		Paper Birch	Low	5 - 10 feet	Sapling
Black Cherry	2	Sapling	3		Black Ash	Low	10 - 20 feet	Sapling
American Elm	2	Sapling	2					
Black Ash	8	Sapling	2					
Quaking Aspen	50	Sapling	3	23				
Balsam Poplar	20	Sapling	3					

14 6120 - Lowland Cedar Poletimber Well 88.4 104 111-140 N/A Mixed upland and lowland.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	2	Pole	9		Red Maple	Low	5 - 10 feet	Sapling
White Pine	2	Log	14		Northern White Cedar	Low	10 - 20 feet	Sapling
Red Maple	5	Pole	7		Balsam Fir	Low	5 - 10 feet	Sapling
Yellow Birch	6	Pole	7					
Quaking Aspen	5	Pole	10					
Northern White Cedar	50	Pole	7	104				
Balsam Fir	8	Pole	7					
Sugar Maple	8	Pole	8					
Hemlock	14	Log/Pole	10					

15 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 50.8 100 51-80 N/A Stand varies in composition, size, socking, and quality but overall is of ok quality. Stand likely was damage from the windstorm of 7/2/02.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	8	Log/Pole	10		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Balsam Poplar	5	Pole	5		Hemlock	Low	5 - 10 feet	Sapling
Balsam Fir	10	Pole	7		Balsam Fir	Medium	5 - 10 feet	Sapling
White Spruce	10	Pole	9					
Northern White Cedar	10	Pole	7					
Red Maple	20	Pole	7					
Paper Birch	2	Pole	6					
Yellow Birch	5	Pole/Log	9					
Sugar Maple	20	Pole	7	100				
Hemlock	10	Log/Pole	12					



Stand **Level 4 Cover Type** **Size Density** **Acres** **Stand Age** **BA Range** **Managed Site** **General Comments**

16 4119 - Mixed Northern Hardwoods Poletimber Well 39.3 100 111-140 N/A

pulp sided hardwood not much defect present in stand though quality varies the core of the stand is of good quality with plants like wild ramp present.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Quaking Aspen					5	Pole	9		Sugar Maple			Low	5 - 10 feet	Sapling	
Balsam Fir					5	Pole	7		Red Maple			Medium	5 - 10 feet	Sapling	
White Spruce					2	Log/Pole	12		Yellow Birch			Low	10 - 20 feet	Sapling	
Northern White Cedar					5	Pole	7		Balsam Fir			Medium	5 - 10 feet	Sapling	
Sugar Maple					33	Pole	6		Hemlock			Low	< 5 feet	Sapling	
Hemlock					10	Log/Pole	13		Beech			Low	5 - 10 feet	Sapling	
Yellow Birch					5	Pole/Log	9								
Red Maple				100	33	Pole	6								
Basswood					2	Pole	7								

17 6120 - Lowland Cedar Poletimber Well 10.1 100 111-140 N/A

Stand varies in composition, size, socking, and quality but overall is of ok quality. Stand likely was damage from the windstorm of 7/2/02.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Paper Birch					2	Pole	6		Balsam Fir			Medium	5 - 10 feet	Sapling	
Red Maple					10	Pole	7								
Balsam Poplar					2	Pole	5								
Balsam Fir					2	Pole	7								
Northern White Cedar				100	80	Pole	7								
Quaking Aspen					2	Log/Pole	10								
Hemlock					2	Log/Pole	12								

19 4115 - Y.Birch, Hemlock NH Poletimber Well 39.7 100 51-80 N/A

Stand varies widely in stocking species composition and quality. likely suffered wind damage in the past (storm of 7/2/02).

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Red Maple				100	45	Pole/Log	8		Red Maple			Low	5 - 10 feet	Sapling	
Balsam Fir					3	Pole	7		Balsam Fir			Medium	5 - 10 feet	Sapling	
Northern White Cedar					5	Pole	7		White Spruce			Low	< 5 feet	Sapling	
Hemlock					20	Log/Pole	12		Hazelnut (Beaked)			Low	< 5 feet	Tall Shrub	
Yellow Birch					10	Pole/Log	9		Hemlock			Low	5 - 10 feet	Sapling	
Sugar Maple					10	Pole	7		Sugar Maple			Low	5 - 10 feet	Sapling	
Black Ash					5	Pole	7								
White Spruce					2	Pole	9								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
20	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	58.5	104	111-140	N/A	Riparian zone protection for the Sand River. Latticed with drains that feed the Sand River.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	3	Pole	7		Dogwood (spp.)	Low	5 - 10 feet	Tall Shrub
White Spruce	2	Pole	10		Black Ash	Low	10 - 20 feet	Sapling
Northern White Cedar	8	Pole	8		Beech	Low	5 - 10 feet	Sapling
White Pine	2	Log	14		Hemlock	Low	5 - 10 feet	Sapling
Sugar Maple	2	Pole	7		Balsam Fir	High	5 - 10 feet	Sapling
Hemlock	55	Log/Pole	14	104	Red Maple	Low	5 - 10 feet	Sapling
Red Maple	12	Pole/Log	9					
Black Ash	2	Pole	8					
Beech	2	Log/Pole	14					
Yellow Birch	12	Log/Pole	12					

21	6113 - Lowland Maple	Poletimber Well	9.2	100	51-80	N/A	Stand is the transition from hardwood stand to the south to a cedar stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	2	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
Northern White Cedar	10	Pole	7		Balsam Fir	High	5 - 10 feet	Sapling
Hemlock	5	Log/Pole	14	104	Black Spruce	Low	5 - 10 feet	Sapling
Red Maple	65	Pole/Log	9	100	Hemlock	Low	5 - 10 feet	Sapling
Sugar Maple	3	Pole	7		Black Ash	Low	5 - 10 feet	Sapling
Quaking Aspen	2	Log/Pole	12		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	3	Pole	7					
Black Ash	5	Pole	6					
Yellow Birch	5	Pole/Log	10					

22	4112 - Maple, Beech, Cherry Association	Sawtimber Well	37.2	104	111-140	N/A	Harvested in 1998: TS#25-94. Significant wind throw from storm of 7/21/02. Minor component of spruce-fir and white pine in sub-canopy. This stand is of better quality than the adjacent stands and has the habitat type (ATD) to support single tree selection management.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	40	Log/Pole	13	104	Beech	Low	5 - 10 feet	Sapling
Black Cherry	11	Pole/Log	10		Hemlock	Low	>20 feet	Pole
Red Maple	30	Log/Pole	13		Black Cherry	Medium	10 - 20 feet	Sapling
Basswood	2	Log/Pole	13		Ironwood	Medium	10 - 20 feet	Tall Shrub
White Ash	5	Pole/Log	10		Sugar Maple	High	10 - 20 feet	Sapling
Beech	3	Log/Pole	13		Red Maple	Medium	10 - 20 feet	Sapling
Yellow Birch	2	Pole/Log	10					
Hemlock	5	Log/Pole	14					
White Pine	2	Log	16					