



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32289

Entry Year 2023

Acreage: 1,446

County Marquette

Management Area: Sand River Lake Plain

Revision Date: 2021-08-03

Stand Examiner: Rick Hill

Legal Description:

T47N R23W Sections 23, 24, and 26.

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. Timber management objectives for the 10-year planning period include improving the age-class distribution of aspen; maintaining the conifer component in northern hardwood stands; maintaining the presence of minor cover types on the landscape; and maintaining non-forest vegetation types. Wildlife management objectives include addressing the habitat requirements identified for the following featured species: American marten, Blackburnian warbler, red-shouldered hawk and white-tailed deer. Management activities may be constrained by site conditions and the skewed age-class distributions.

Soil and topography:

Landform consists of bedrock controlled till plains and moraines and glacial drainage ways. Soils primarily are loams underlain by sandstone, poorly drained loamy soils, and poorly drained organics. Topography is predominately level with some areas that are lightly to moderately sloping.

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

Mostly surrounded by State land; however, there are a few adjacent small private ownerships. Land use is primarily forest production and passive recreation.

Unique Natural Features:

This compartment is home to a high quality example of mesic northern forest, and hardwood conifer swamp. These areas are an Ecological Reference Area.

Archeological, Historical, and Cultural Features:

There are no sites identified though there are potential sites present within the compartment.

Special Management Designations or Considerations:

A special management plan is being written for the ERAs in the compartment.

Watershed and Fisheries Considerations:

The Sand River and tributaries to the Sand River located in this compartment are all designated trout streams. The Sand River is a cold transitional stream, while the tributaries are cold streams. All streams are less than 50 ft in width. The Sand River has native brook trout present and experiences spawning migrations of steelhead from Lake Superior. Treatments proposed in areas susceptible to aspen regeneration should adhere to a 300 ft buffer from the streams.

Wildlife Habitat Considerations:

Compartment 289 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; coarse 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

Surface sediments consist of thin to discontinuous glacial till over bedrock, probably part of an end moraine of coarse-textured till. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. There is not a current economic use for the Jacobsville, but it was previously used as a building stone. Gravel pits are located to the north and south of the compartment, and potential appears to be good. This compartment has never been leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Access to some areas of the compartment are good using the camp four road and Mangum Road. some other areas of the compartment are difficult to access due to wet ground and lack of roads.

Survey Needs:

Any surveys needed will be requested after review.

Recreational Facilities and Opportunities:

There are no recreation facilities in this compartment. there is little potential for recreation development. This area will continue to be used for dispersed recreation.

Fire Protection:

This area has low fire risk fuels, and mostly good access.

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

Report 1 – Total Acres by Cover Type and Age Class

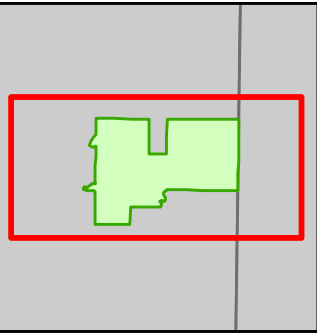


Age Class

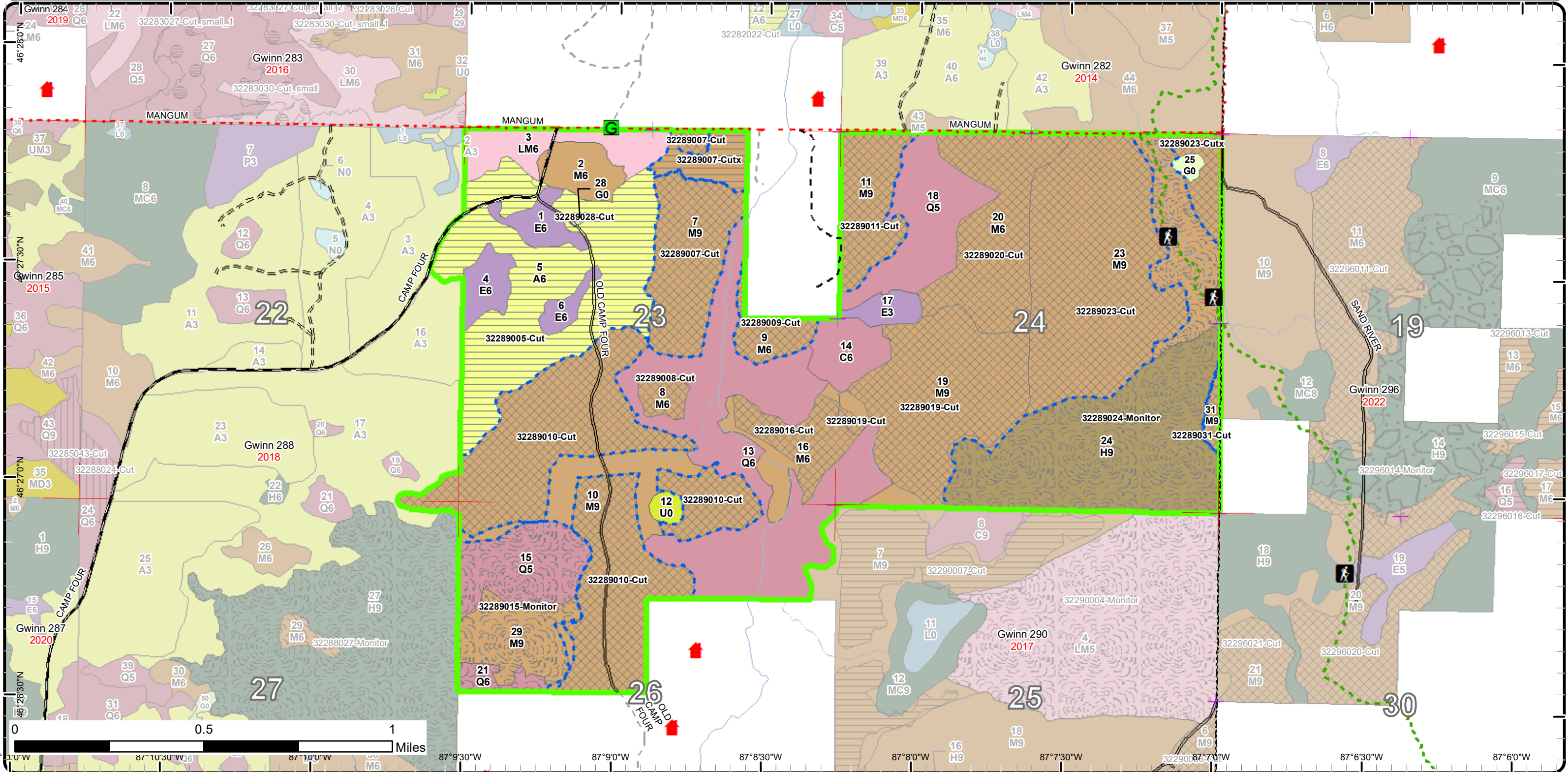
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	0	137	0	0	0	0	0	0	0	0	0	0	0	0	137
Cedar	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20
Hemlock	0	0	0	0	0	0	0	0	0	0	138	0	0	0	0	0	0	0	138
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	0	0	48	0	185	8	0	0	0	0	0	0	0	241
Lowland Deciduous	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	0	0	41
Lowland Mixed Forest	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	29
Northern Hardwood	0	0	0	0	0	0	0	0	0	244	587	0	0	0	0	0	0	0	831
Total	8	0	0	0	0	178	0	0	48	29	587	595	0	0	0	0	0	0	1445

Cover Type & Treatments Map

Compartment: 289
 T47N, R23W, Sec: 22-24, 26, 27
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Sand River Lake Plain
 YOE: 2023
 Acres: 1445.7 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/13/2021
 Map Phase: Review

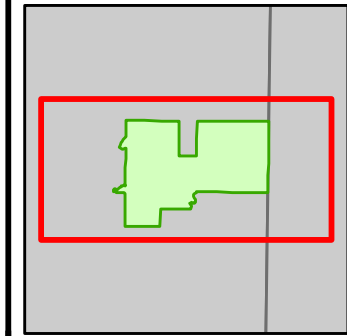


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Designated Hiking Trails
- ▲ Cabin
- G Gate
- Intermittent Stream
- Perennial River
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Monitoring
- 411 - Northern Hardwood
- 413 - Aspen
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees

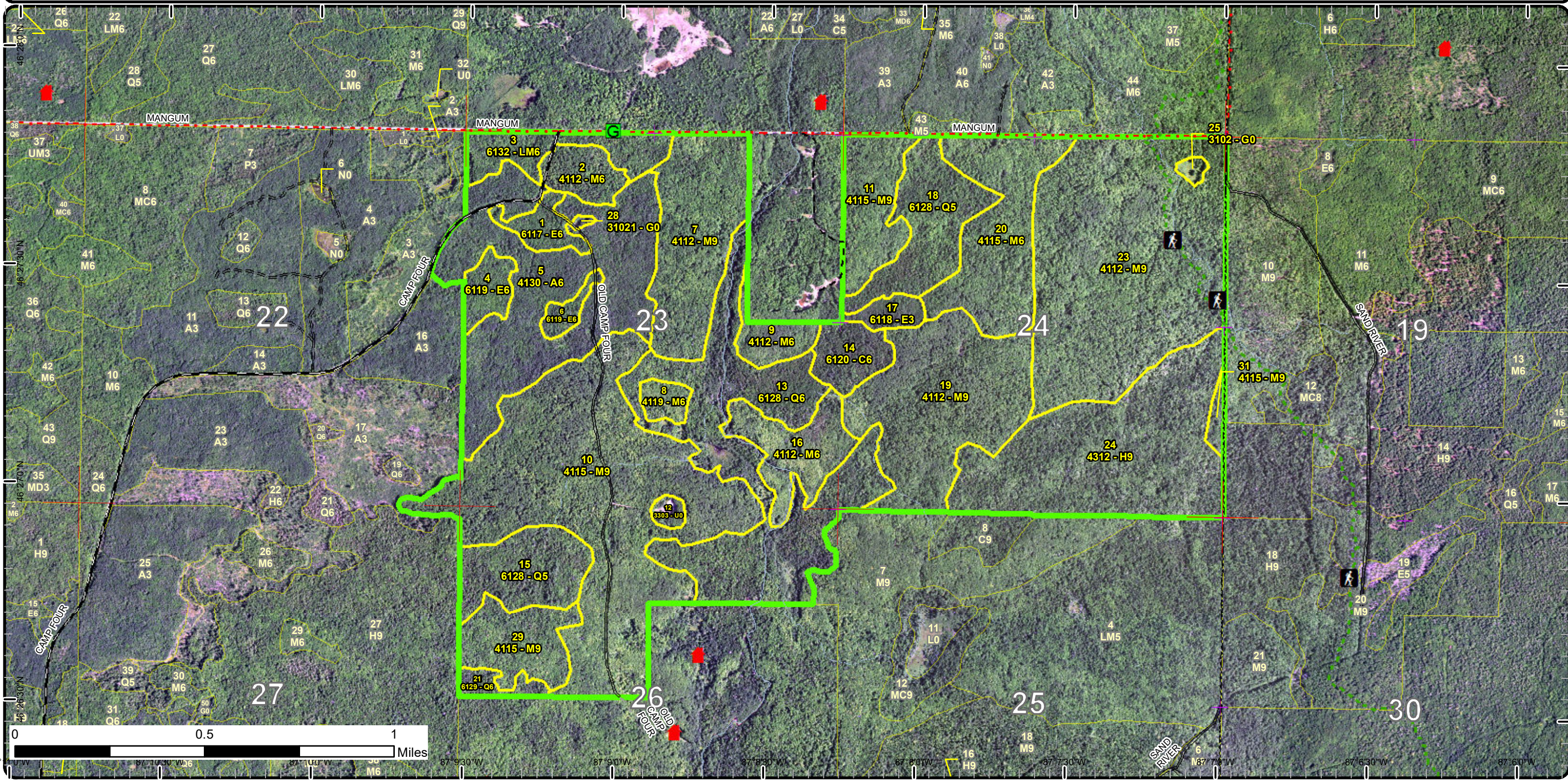


Stand Boundary Map

Compartment: 289
 T47N, R23W, Sec: 22-24, 26, 27
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Sand River Lake Plain
 YOE: 2023
 Acres: 1445.7 GIS Calculated
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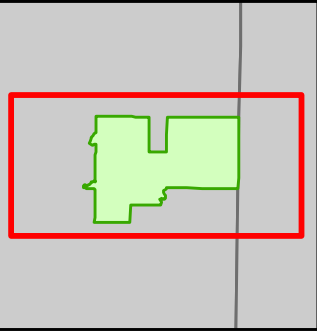


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
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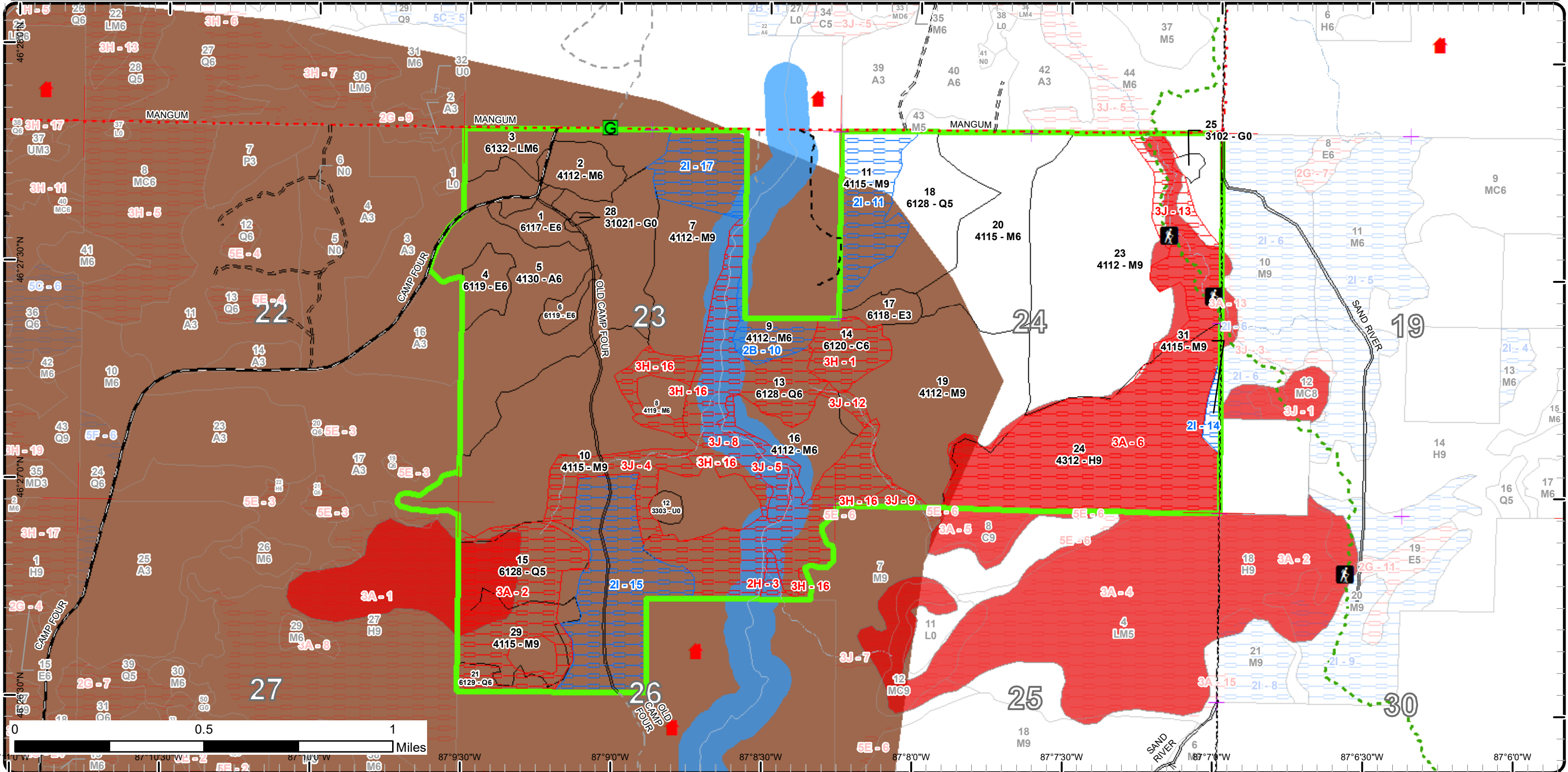


Special Conservation Areas

Compartment: 289
 T47N, R23W, Sec: 22-24, 26, 27
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Sand River Lake Plain
 YOE: 2023
 Acres: 1445.7 GIS Calculated
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- 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
- Private - Dirt / Gravel Road
- Hiking Trails
- Designated Hiking Trails
- ▲ Cabin
- G Gate
- Intermittent Stream
- Perennial River
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 289

Total Compartment Acres: 1,446

Commercial Harvest - 500
 Harvests with Site Condition - 327
 Next Step Harvest - 71
 Habitat Cut - 72

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	137	0	0	0	0	0	0	0	0	137
Herbaceous Openland	1	0	0	0	0	0	0	0	0	1
Northern Hardwood	16	675	0	0	0	0	0	0	0	691
Total	154	675	0	0	0	0	0	0	0	829

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	829	0	0	0	0	261	0	0	0	1090
Next Step	71	0	0	0	0	758	0	0	0	829
Total	900	0	0	0	0	1019	0	0	0	1919



Stand Name	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:

5	32289005-Cut	136.5	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut all trees using a 2 inch spec, leaving only cedar, white pine, hemlock. Leave area retention in areas that have yellow birch, and cherry or larger big tooth aspen. also consider areas that may be too wet. Due to wet ground and deer yard only cut in winter.</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</u> Aspen, spruce, fir</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 /2022</p>											
7	32289007-Cut	57.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	104	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Harvest stand using a selection system to 80SF using the Complete marker as a guide. No hemlock or cedar should be cut in stand due to wildlife concerns. Due to wet ground and deer yard only cut in winter this will also protect hemlock 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</u> Maple, basswood, mixed hardwood, conifer</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
7	32289007-Cutx	16.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	104	111-140	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Cut all trees above 2 inches at DBH leaving only hemlock, cedar, yellow birch, and white pine. Due to wet ground and deer yard only cut in winter. Leave patch retention in an area with high hemlock BA or in a wet area.</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</u> Maple, mixed hardwood, mixed conifer</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



Standard

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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8	32289008-Cut	8.0	4119 - Mixed Northern Hardwoods	Poletimber Well	99	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Harvest stand using a selection system to 80SF using the Complete marker as a guide. Marking should favor the retention and regeneration of yellow birch and basswood. No hemlock or cedar should be cut in stand due to wildlife concerns. Due to wet ground and deer yard only cut in winter this will also protect hemlock root systems.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, basswood, mixed hardwood, conifer.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

9	32289009-Cut	15.0	4112 - Maple, Beech, Cherry Association	Poletimber Well	91	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
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Prescription Harvest stand using a selection system to 80SF using the Complete marker as a guide. Marking should favor the retention and regeneration of cherry. No hemlock or cedar should be cut in stand due to wildlife concerns. Due to wet ground and deer yard only cut in winter this will also protect hemlock root systems.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, basswood, mixed hardwood and conifer.

Regen:

Other

Comment:

Site Condition Unknown Access

Proposed Start Date: 10/1 /2022

10	32289010-Cut	195.9	4115 - Y.Birch, Hemlock NH	Sawtimber Well	101	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Even-Aged	No
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Prescription Harvest stand using a selection system to 80SF using the complete marker as a guide. Marking should favor the retention and regeneration of yellow birch and beech. No hemlock or cedar should be cut in stand due to wildlife concerns. Due to wet ground and deer yard only cut in winter this will also protect hemlock root systems.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, yellow birch, hemlock, basswood, mixed northern hardwoods

Regen:

Other

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2022



Standard

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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11	32289011-Cut	37.5	4115 - Y.Birch, Hemlock NH	Sawtimber Well	105	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
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Prescription Harvest stand using a selection system to 80SF using the Complete marker as a guide. Marking should favor the retention and regeneration of yellow birch, and black cherry. No hemlock or cedar should be cut in stand due to wildlife concerns. Due to wet ground and deer yard only cut in winter this will also protect hemlock root systems.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, basswood, cherry, mixed hardwood and conifer.

Regen:

Other

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2022

15	32289015-Monitor	83.3	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	99	81-110	Monitoring	Invasive Species	6131 - Hemlock, White Pine, Maple, Birch	Uneven-Aged	No
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Prescription Monitor for invasive species, particularly those that will degrade ERA quality.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition Conservation Values

Proposed Start Date: 10/1 /2022

16	32289016-Cut	24.8	4112 - Maple, Beech, Cherry Association	Poletimber Well	101	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
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Prescription Harvest stand using a selection system to 80SF using the Complete marker as a guide. Marking should favor the retention and regeneration of black cherry. No hemlock or cedar should be cut in stand due to wildlife concerns. Due to wet ground and deer yard only cut in winter this will also protect hemlock root systems.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, basswood, other mixed hardwood and conifer

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

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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
19 32289019-Cut	100.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	104	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest stand using a selection system to 80SF using the Complete marker as a guide. Marking should favor the retention and regeneration of yellow birch, and beech. No hemlock or cedar should be cut in stand due to wildlife concerns. Due to wet ground and deer yard only cut in winter this will also protect hemlock root systems.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Maple, basswood, mixed hardwood and conifer</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										
20 32289020-Cut	71.0	4115 - Y.Birch, Hemlock NH	Poletimber Well	101	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest stand using a selection system to 80SF using the Complete marker as a guide. Marking should favor the retention and regeneration of white ash. No hemlock or cedar should be cut in stand due to wildlife concerns. Due to wet ground and deer yard only cut in winter this will also protect hemlock root systems.</p> <p><u>Next Step Treatments:</u> Harvest, Single Tree Selection</p> <p><u>Acceptable Regen:</u> Maple, Basswood, Mixed hardwood and conifer</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										
23 32289023-Cut	145.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	99	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Harvest stand using a selection system to 80SF using the Complete marker as a guide. Marking should favor the retention and regeneration of yellow birch, white ash and beech. No hemlock or cedar should be cut in stand due to wildlife concerns. Due to wet ground and deer yard only cut in winter this will also protect hemlock root systems.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Maple, basswood, cherry, mixed hardwood, mixed conifer.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</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
23 32289023-Cutx	14.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	99	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Harvest stand using a selection system to 80SF using the Complete marker as a guide. Marking should favor the retention and regeneration of yellow birch, white ash and beech. No hemlock or cedar should be cut in stand due to wildlife concerns. Due to wet ground and deer yard only cut in winter this will also protect hemlock 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> Maple, basswood, mixed hardwood and conifer</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
24 32289024-Monitor	177.9	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	99	111-140	Monitoring	Invasive Species	4312 - Hemlock, Mixed Deciduous	Uneven-Aged	No
<p><u>Prescription</u> Monitor for invasive species, particularly those that will degrade ERA quality.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Conservation Values</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
28 32289028-Cut	1.0	31021 - Cool Season Grass	Nonstocked	0	Unspecified	Harvest	Clearcut with Retention	3102 - Grass		Yes
<p><u>Prescription</u> Cut all trees above 2 inches at DBH leaving only hemlock and 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> Grass</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
31 32289031-Cut	4.7	4115 - Y.Birch, Hemlock NH	Sawtimber Well	99	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Harvest stand using a selection system to 80SF using the Complete marker as a guide. No hemlock or cedar should be cut in stand due to wildlife concerns. Due to wet ground and deer yard only cut in winter this will also protect hemlock 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> Maple, basswood, mixed hardwood and conifer.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Survey Needed</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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Total Treatment Acreage Proposed: 1089.9

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 289
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions							
		With Condition			2B	2I	2H	3A	3H	3J		
137	137	0		0	Aspen							
20	0	0		20	Cedar	0				20		
138	1	0		137	Hemlock				137			
4	4	0		0	Herbaceous Openland							
4	4	0		0	Low-Density Trees							
242	53	0		189	Lowland Conifers	0		5	44	13	127	
41	41	0		0	Lowland Deciduous							
29	29	0		0	Lowland Mixed Forest							
831	556	161		114	Northern Hardwood	15	146		53		60	
1,446	824	161		460	Total Forested Acres	15	146	5	235	33	187	
	57%	11%		32%	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	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3A: Conservation Values incompatible with harvest at this time	74	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Mesic northern forest and hardwood-conifer swamp ERAs							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 289
Year of Entry: 2023

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3A: Conservation Values incompatible with harvest at this time	161	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Mesic northern forest and hardwood-conifer swamp ERAs							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	127	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	2B: Unknown if access through adjacent landowner(s) is possible	15	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 289
Year of Entry: 2023

11	Available	2I: Survey needed	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	2I: Survey needed	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	2I: Survey needed	73	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	2I: Survey needed	31	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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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.
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
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1 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 12.6 49 51-80 N/A Cut in 1972. Left a mixed residual.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling/Pole	6		Red Maple	Low	10 - 20 feet	Sapling
Yellow Birch	5	Sapling/Pole	6		Balsam Fir	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	30	Sapling/Pole	6	49	Black Ash	Medium	10 - 20 feet	Sapling
Balsam Fir	10	Pole	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
White Spruce	5	Pole	6		Dogwood (spp.)	Low	< 5 feet	Tall Shrub
Northern White Cedar	5	Pole	7					
Black Ash	30	Sapling/Pole	5					

2 4112 - Maple, Beech, Cherry Association Poletimber Well 17.0 99 81-110 N/A Selectively harvested in the winter of 2014, sale # 115-13. Residual timber looks good. Basal area averages 80 sq. ft.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	70	Pole/Log	9	99	Sugar Maple	High	5 - 10 feet	Sapling
Red Maple	22	Pole/Log	9		Red Maple	Medium	5 - 10 feet	Sapling
White Spruce	2	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar	4	Pole	8		Hemlock	Low	10 - 20 feet	Sapling
Hemlock	2	Pole/Log	10		Ironwood	Medium	5 - 10 feet	Sapling

3 6132 - Mixed Lowland Forest with Cedar Poletimber Well 28.6 86 81-110 N/A Mostly lowlands with fair amounts of ash and cedar.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole	7	86	Red Maple	Medium	5 - 10 feet	Sapling
Yellow Birch	5	Pole/Log	9		Balsam Fir	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	2	Pole	8		Black Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	7		Hemlock	Low	5 - 10 feet	Sapling
Black Spruce	7	Pole	7		Mountain Maple	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	20	Pole	8					
White Pine	2	Log	17					
Hemlock	20	Log/Pole	13					
Black Ash	12	Pole	6					
Black Cherry	2	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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4 6119 - Mixed Lowland Deciduous Forest Poletimber Well 13.1 49 1-50 N/A Cut in 1972. Left a mixed residual. Contains upland knolls and ridges.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole	7		Red Maple	Medium	10 - 20 feet	Sapling
Yellow Birch	10	Pole	7		Balsam Fir	Medium	10 - 20 feet	Sapling
White Ash	3	Pole/Sapling	6		White Spruce	Low	5 - 10 feet	Sapling
Paper Birch	2	Pole	6		Tag Alder	Low	10 - 20 feet	Tall Shrub
Bigtooth Aspen	30	Pole/Sapling	6	49	Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
Balsam Poplar	3	Pole	6					
Balsam Fir	5	Pole	6					
White Spruce	10	Pole	7					
Black Ash	7	Pole/Sapling	6					

5 4130 - Aspen Poletimber Well 136.9 49 81-110 N/A Harvested in 1972: TS#121-70

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	6	Sapling/Pole	4		Red Maple	Medium	10 - 20 feet	Sapling
Yellow Birch	5	Pole/Sapling	5		Paper Birch	Low	10 - 20 feet	Sapling
Paper Birch	3	Pole/Sapling	5		Balsam Fir	Medium	10 - 20 feet	Sapling
Quaking Aspen	24	Pole/Sapling	5		Black Ash	Low	10 - 20 feet	Sapling
Bigtooth Aspen	40	Pole/Sapling	5	49	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Poplar	10	Pole	6		Dogwood (spp.)	Low	5 - 10 feet	Tall Shrub
Balsam Fir	5	Sapling/Pole	5					
White Spruce	2	Pole	7					
Northern White Cedar	2	Pole	7					
Black Cherry	3	Pole/Sapling	5					

6 6119 - Mixed Lowland Deciduous Forest Poletimber Well 6.6 49 51-80 N/A Harvested in 1996: TS#12170A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	5		Red Maple	Medium	10 - 20 feet	Sapling
Yellow Birch	10	Pole/Sapling	5		Yellow Birch	Low	10 - 20 feet	Sapling
Bigtooth Aspen	35	Pole/Sapling	5	49	Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir	5	Pole/Sapling	4		White Spruce	Low	5 - 10 feet	Sapling
White Spruce	5	Pole	7					
Northern White Cedar	5	Pole	7					
Black Ash	30	Pole/Sapling	5					



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7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	74.2	104	111-140	N/A	Selectively cut in 1996: TS#22-93.																																																																						
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8	4119 - Mixed Northern Hardwoods	Poletimber Well	8.0	99	111-140	N/A	Typical second growth hardwoods.																																																																						
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10	4115 - Y.Birch, Hemlock NH	Sawtimber Well	225.5	101	111-140	N/A	Thinned in 1975. North 1/2 selectively cut in 2006: TS#101-03-01. Post harvest wildlife division underplanted hemlock.																																																																						
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Balsam Fir	Low	5 - 10 feet	Sapling																																																																										
Black Cherry	Low	5 - 10 feet	Sapling																																																																										
Ironwood	Medium	5 - 10 feet	Sapling																																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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15 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 40.4 99 81-110 N/A Mesic northern forest and hardwood-conifer swamp ERAs. May have been partially cut in the past.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	19	Pole/Log	8		Red Maple	Medium	10 - 20 feet	Sapling
Yellow Birch	5	Pole/Log	10		Yellow Birch	Low	10 - 20 feet	Sapling
Quaking Aspen	2	Pole	9		Balsam Fir	High	10 - 20 feet	Sapling
Balsam Fir	5	Pole	7		Hemlock	Low	5 - 10 feet	Sapling
White Spruce	5	Pole	9		Tag Alder	Low	10 - 20 feet	Tall Shrub
Northern White Cedar	22	Pole	9					
White Pine	20	Log/Pole	14					
Hemlock	22	Pole/Log	14	99				

16 4112 - Maple, Beech, Cherry Association Poletimber Well 35.9 101 111-140 N/A Cut in the 1960s. Contains wet pocket inclusions.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Pole/Log	9	101	Sugar Maple	High	10 - 20 feet	Sapling
Red Maple	30	Pole/Log	9		Red Maple	Medium	10 - 20 feet	Sapling
White Spruce	5	Pole	9		Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar	2	Pole	8		Hemlock	Low	5 - 10 feet	Sapling
Hemlock	10	Log/Pole	14		Black Cherry	Low	10 - 20 feet	Sapling
Black Cherry	3	Pole/Log	10					

17 6118 - Lowland Deciduous with Cedar Sapling Well 9.1 43 1-50 N/A Harvested in 1978.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	3	Pole/Sapling	5		Sugar Maple	Low	5 - 10 feet	Sapling
Paper Birch	10	Sapling/Pole	4		Balsam Fir	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	15	Sapling/Pole	4		Mountain Maple	Low	10 - 20 feet	Tall Shrub
Balsam Poplar	45	Sapling/Pole	4	43	Dogwood (spp.)	Medium	< 5 feet	Tall Shrub
Northern White Cedar	20	Pole	8					
Black Ash	7	Sapling/Pole	4					

18 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 48.3 71 81-110 N/A Cut in the 1970s. Contains upland knolls and ridges.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Log	8		Sugar Maple	Low	10 - 20 feet	Sapling
Yellow Birch	5	Pole/Log	9		Red Maple	Medium	>20 feet	Sapling
White Ash	2	Pole	8		Yellow Birch	Medium	>20 feet	Sapling
Quaking Aspen	3	Pole	9		Paper Birch	Low	>20 feet	Sapling
Balsam Fir	5	Pole	7		Balsam Fir	High	10 - 20 feet	Sapling
White Spruce	5	Pole	8		Hemlock	Medium	10 - 20 feet	Sapling
Northern White Cedar	20	Pole	7					
White Pine	2	Log	15					
Hemlock	30	Log/Pole	10	71				
Black Ash	3	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
19	4112 - Maple, Beech, Cherry Association	Sawtimber Well	107.8	104	81-110	N/A	Selectively harvested in 2007: TS#102-03-01.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		55	Log/Pole	10	104	Sugar Maple	
Red Maple		30	Log/Pole	10		Red Maple	
Yellow Birch		3	Log/Pole	10		Beech	
Beech		2	Log	16		Balsam Fir	
Hemlock		10	Log	14		Hemlock	
						Ironwood	
						Density	
						Avg. Height	
						Size	
20	4115 - Y.Birch, Hemlock NH	Poletimber Well	71.0	101	111-140	N/A	Selectively cut in 1978: TS#16-76A. Contains wet pockets, drains, and sawlog inclusions.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		31	Pole/Log	9		Sugar Maple	
Red Maple		31	Pole/Log	9	101	Red Maple	
Yellow Birch		5	Pole/Log	9		Yellow Birch	
White Ash		3	Log/Pole	12		Beech	
White Spruce		3	Pole	9		Balsam Fir	
Northern White Cedar		8	Pole	8		Hemlock	
White Pine		2	Log	16			
Hemlock		15	Log/Pole	12			
Black Cherry		2	Pole	9			
21	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	7.9	100	111-140	N/A	Mesic northern forest and hardwood-conifer swamp ERAs. May have been partially cut in the past.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		15	Pole/Log	8		Red Maple	
Yellow Birch		2	Log/Pole	12		Balsam Fir	
Balsam Fir		5	Pole	7		Hemlock	
White Spruce		3	Pole	9			
Black Spruce		30	Pole	7	100		
Northern White Cedar		15	Pole	7			
White Pine		10	Log/Pole	14			
Hemlock		20	Log/Pole	14			
23	4112 - Maple, Beech, Cherry Association	Sawtimber Well	199.7	99	111-140	N/A	Selectively cut in 1999: TS#23-93-01.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		55	Log/Pole	11	99	Sugar Maple	
Red Maple		35	Log/Pole	11		Red Maple	
Yellow Birch		2	Pole/Log	12		Beech	
White Ash		2	Pole/Log	10		Balsam Fir	
Beech		2	Log/Pole	14		Hemlock	
White Pine		2	Log/XLog	13		Ironwood	
Hemlock		2	Log/Pole	13			
						Density	
						Avg. Height	
						Size	



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

24 4312 - Hemlock, Mixed Deciduous Sawtimber Well 138.2 99 111-140 N/A Mesic northern forest and hardwood-conifer swamp ERA, also part of a deer wintering complex.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log	16		Sugar Maple	Low	5 - 10 feet	Sapling
Red Maple	38	Log/Pole	12		Red Maple	Medium	10 - 20 feet	Sapling
Yellow Birch	5	Log/Pole	13		Yellow Birch	Low	10 - 20 feet	Sapling
White Spruce	3	Pole/Log	10		Balsam Fir	High	10 - 20 feet	Sapling
Northern White Cedar	7	Pole	7		Hemlock	Medium	5 - 10 feet	Sapling
White Pine	2	Log/Pole	14					
Hemlock	40	Log/Pole	15	99				

25 3102 - Grass Nonstocked 2.7 Unspecified No Tordon opening created in 1975.

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low		Sapling
Black Cherry	Low		
White Ash	Low		Pole
White Spruce	Trace		Pole
Balsam Fir	Medium		Pole
White Pine	Trace		Pole

28 31021 - Cool Season Grass Nonstocked 1.0 0 Unspecified No

29 4115 - Y.Birch, Hemlock NH Sawtimber Well 35.0 101 81-110 N/A Thinned in 1975. North 1/2 selectively cut in 2006: TS#101-03-01. Post harvest wildlife division underplanted hemlock. Mesic northern forest and hardwood-conifer swamp ERAs.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	35	Log/Pole	12	101	Sugar Maple	High	5 - 10 feet	Sapling
Red Maple	25	Log/Pole	12		Red Maple	Medium	5 - 10 feet	Sapling
Yellow Birch	5	Log/Pole	12		Balsam Fir	Low	5 - 10 feet	Sapling
Beech	2	Log	14		Black Cherry	Low	5 - 10 feet	Sapling
Quaking Aspen	2	Log/Pole	10		Ironwood	Medium	5 - 10 feet	Sapling
Northern White Cedar	5	Pole/Log	8					
White Pine	3	Log	14					
Hemlock	18	Log/Pole	14					
Black Cherry	5	Pole/Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
31	4115 - Y.Birch, Hemlock NH	Sawtimber Well	4.7	99	111-140	N/A	

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	30	Log	16	99	Sugar Maple	Low	5 - 10 feet	Sapling
Red Maple	30	Log/Pole	12		Red Maple	Medium	10 - 20 feet	Sapling
Yellow Birch	8	Log/Pole	13		Yellow Birch	Low	10 - 20 feet	Sapling
White Spruce	3	Pole/Log	10		Balsam Fir	High	10 - 20 feet	Sapling
Northern White Cedar	7	Pole	7		Hemlock	Medium	5 - 10 feet	Sapling
White Pine	2	Log/Pole	14					
Hemlock	20	Log/Pole	15	99				