



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32291

Entry Year 2021

Acreage: 1,251

County Marquette

Management Area: Sand River Lake Plain

Revision Date: 2019-07-25

Stand Examiner: Jason Caron

Legal Description:

T47N-R23W, Sections 34 & 35.

Identified Planning Goals:

To promote sustainable timber management and wildlife habitat while protecting soil and water quality.

Soil and topography:

Soils consists of fine to loamy sands that vary in drainage. Topography is flat throughout the compartment.

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

This compartment is part of a larger block of state ownership. A few private camps exist outside of this compartment. The land use in and around this compartment would consist of timber management, hunting, fishing, gathering, and ORV riding.

Unique Natural Features:

The Sand River and it's tributaries.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Watershed protection.

Watershed and Fisheries Considerations:

Fisheries Values: Good

Fisheries Concerns: The Sand River and East Branch Sand River are present in this compartment. Both are designated trout streams with brook trout and steelhead present. Treatments in stands 1, 4, and 34 are clearcuts in hardwoods containing very small components of aspen. A no cut buffer of 100 feet should be adhered to in order to keep activity away from the Sand and East Branch Sand Rivers.

Wildlife Habitat Considerations:

Compartment 291 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

The nearest active sand/gravel pit is located more than five miles away, and sand & gravel potential within the compartment appears to be limited. The Jacobsville Sandstone may be near the surface in places. The Jacobsville used to be quarried for building/dimension stone, but there is not currently significant economic value for the material. There is no known metallic mineral potential in this area, and any potentially metallic mineral bearing formations are likely relatively deep. There is no known potential for economic hydrocarbon production in the UP. The state does not own all mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Vehicle access is good with the Sand River road being the primary road that goes through the middle portion of the compartment. A few two tracks exist off of the Sand River road but they are in poorer condition.

Survey Needs:

Survey is needed within this compartment.

Recreational Facilities and Opportunities:

No recreational facilities currently exist within the compartment. Recreational opportunities consist of fishing, hunting, gathering, hiking, and ORV riding.

Fire Protection:

The Sand River road provides good access for fire control. The poorer quality two tracks that exist could be used in certain areas of the compartment. Fire risk is low due to the aspen and hardwood cover types that exist within the compartment.

Additional Compartment Information:**The following reports from the Inventory are attached:**

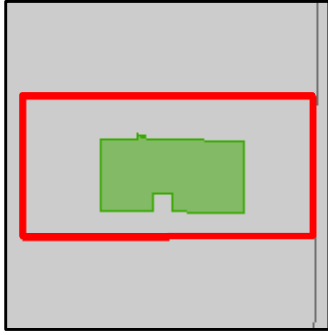
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

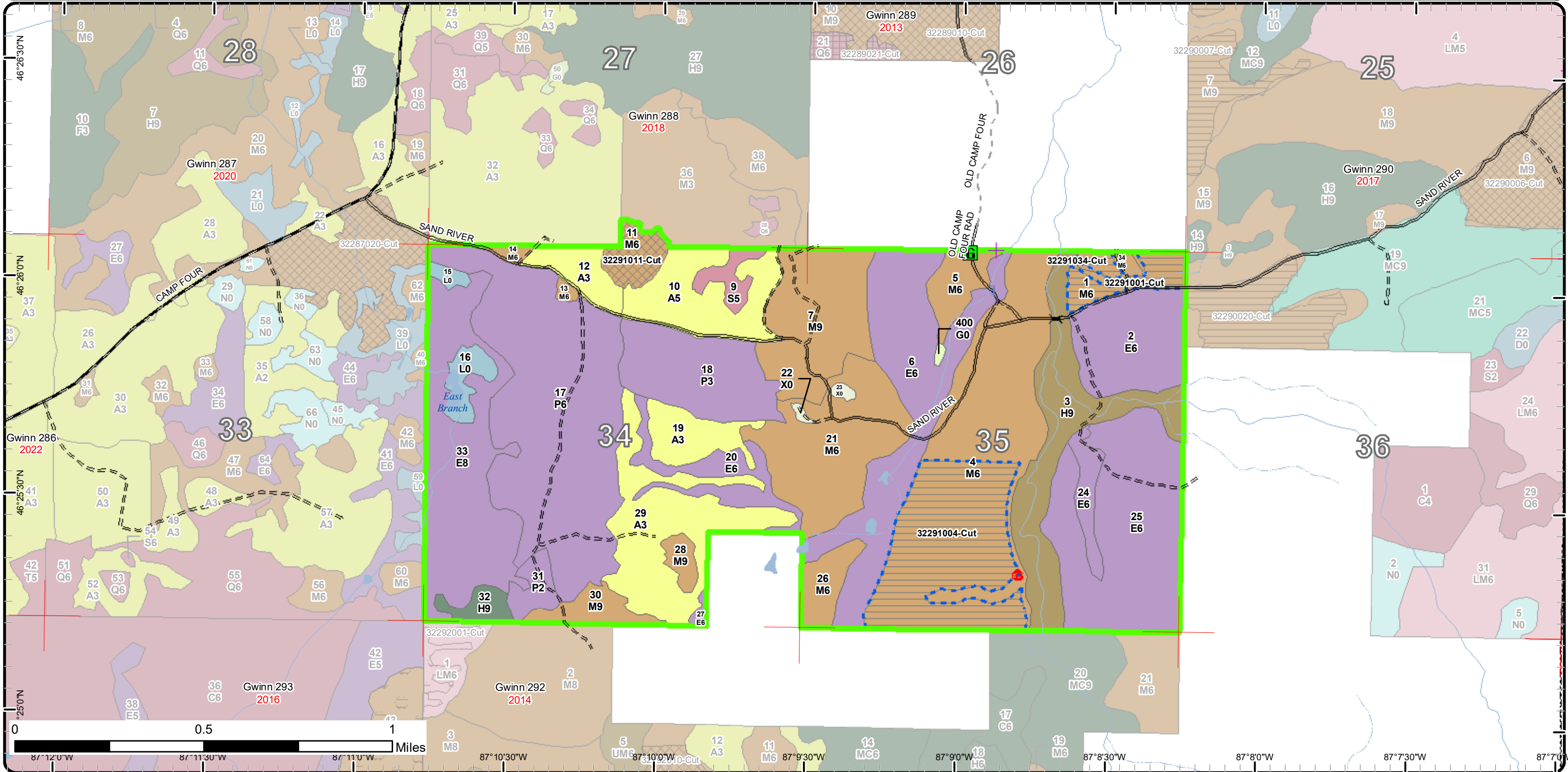
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 291
 T47N, R23W, Sec: 34, 35
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Sand River Lake Plain
 YOE: 2021
 Acres: 1,251 GIS Calculated
 Examiner: Jason Caron
 Map Revised: 8/16/2019
 Map Phase: Web-Post

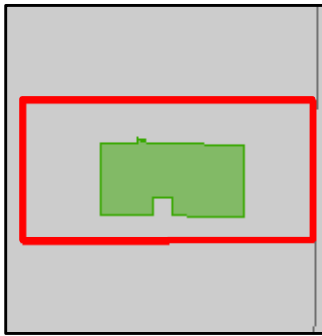


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Gate
- Bridges
- Culvert
- Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated

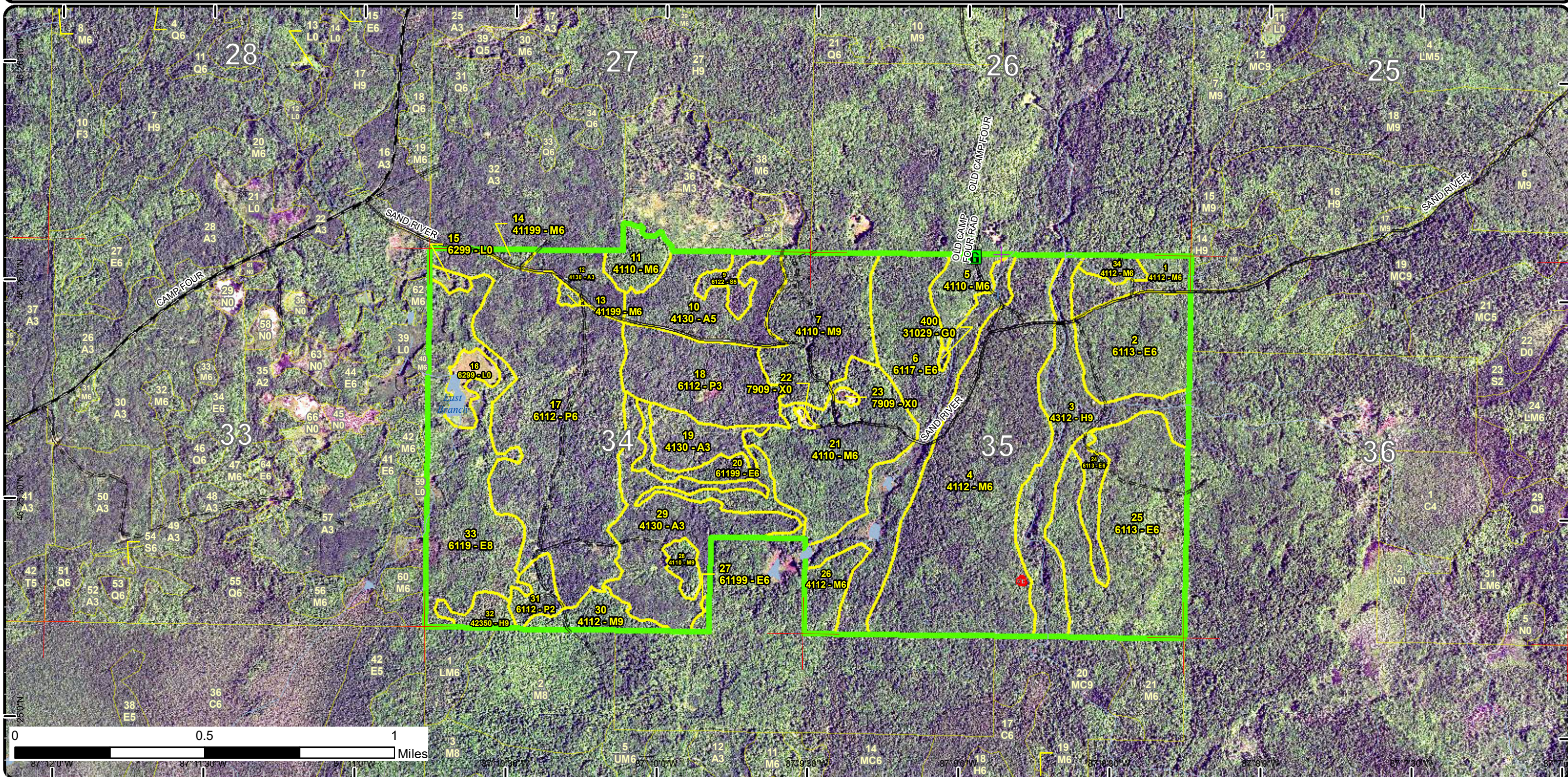


Stand Boundary Map

Compartment: 291
 T47N, R23W, Sec: 34, 35
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Sand River Lake Plain
 YOE: 2021
 Acres: 1,251 GIS Calculated
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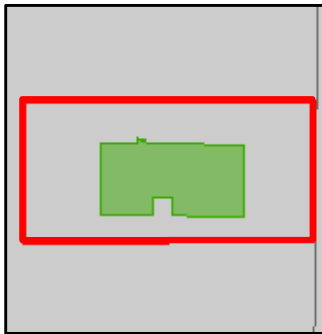


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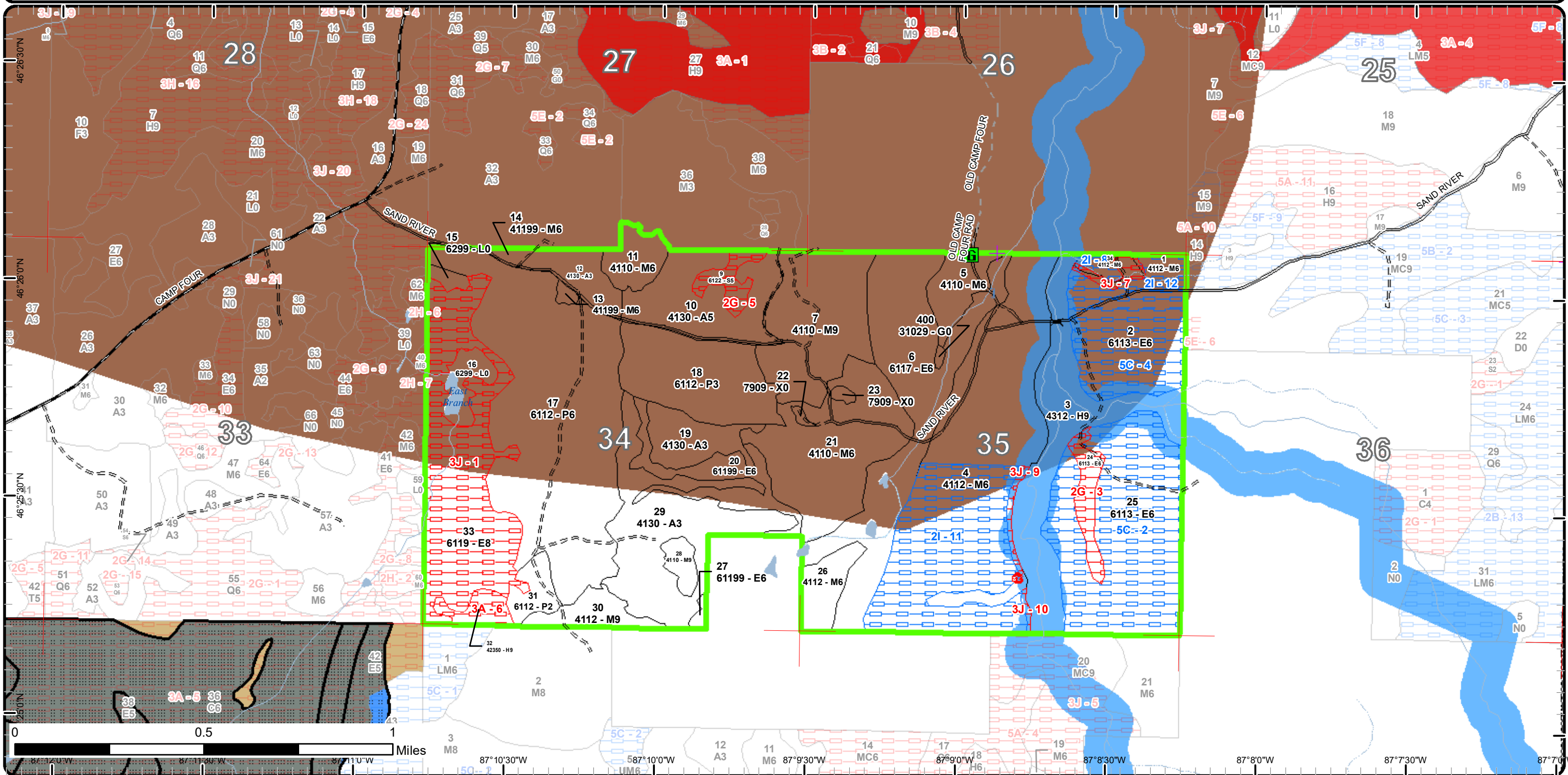


Special Conservation Areas & Site Conditions Map

Compartment: 291
 T47N, R23W, Sec: 34, 35
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Sand River Lake Plain
 YOE: 2021
 Acres: 1,251 GIS Calculated
 Examiner: Jason Caron
 Map Revised: 8/16/2019
 Map Phase: Web-Post



- Miris Corners
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- Private - Dirt / Gravel Road
- Gate
- Bridges
- Culvert
- Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Forest Habitat Core Interior
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- Riparian Area



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	88	16	43	0	0	0	0	0	0	0	0	0	0	0	0	0	147
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	75
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Aspen/Balsam Poplar	0	0	10	52	166	0	0	0	0	0	0	0	0	0	0	0	0	0	228
Lowland Deciduous	0	0	0	0	0	0	97	0	260	0	0	0	0	0	0	0	0	26	383
Lowland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	0	0	0	0	0	16	0	110	0	0	0	0	0	0	0	0	268	394
Total	16	0	98	68	209	0	113	0	370	9	0	0	0	0	0	0	0	369	1251



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 291

Total Compartment Acres: 1,251

Commercial Harvest - 14
 Harvests with Site Condition - 107
 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	107	14	0	0	0	0	0	0	0	120
Total	107	14	0	0	0	0	0	0	0	120

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	120	0	0	0	0	0	0	0	0	120
Next Step	0	0	0	0	0	0	120	0	0	120
Total	120	0	0	0	0	0	120	0	0	241



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	32291001-Cut	14.2	4112 - Maple, Beech, Cherry Association	Poletimber Well	78	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Proposal

Habitat Cut: No **Site Condition: Survey Needed**

Prescription Clearcut with reserves. Do not cut under-represented trees such as hemlock and yellow birch. Red line out pockets of mature timber to meet retention guidelines. Red line out pockets of dense hemlock to both protect mature hemlock from root damage and to serve as retention.

Specs: Wildlife Comment: Retain some Black Cherry (10%) black bear, ruffed grouse. Add a winter cutting specification and no chipping. – Deer wintering complex

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, spruce, fir, maple, birch, hemlock, cedar.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

4	32291004-Cut	89.2	4112 - Maple, Beech, Cherry Association	Poletimber Well	71	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Proposal
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Habitat Cut: No **Site Condition: Survey Needed**

Prescription Clearcut with reserves. Do not cut under-represented trees such as hemlock and yellow birch. Red line out pockets of mature timber to meet retention guidelines. Red line out pockets of dense hemlock to both protect mature hemlock from root damage and to serve as retention.

Specs: Wildlife Comment: Retain some Black Cherry (10%) black bear, ruffed grouse. Add a winter cutting specification and no chipping. – Deer wintering complex

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, spruce, fir, pine, oak, hemlock, birch, cedar, maple, and cherry.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

11	32291011-Cut	13.5	4110 - Sugar Maple Association	Poletimber Well	71	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Proposal
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Habitat Cut: No **Site Condition:**

Prescription Selectively manage the stand. Thin to 70-80 square feet. Do not harvest under-represented species within the stand.

Specs: Wildlife Comment: Add a winter cutting specification and no chipping - Deer wintering complex.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, birch, hemlock.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
34	32291034-Cut	3.4	4112 - Maple, Beech, Cherry Association	Poletimber Well	78	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Proposal

Habitat Cut: No Site Condition: Survey Needed

Prescription Clearcut with reserves. Do not cut under-represented trees such as hemlock and yellow birch. Red line out pockets of mature timber to meet retention guidelines. Red line out pockets of dense hemlock to both protect mature hemlock from root damage and to serve as retention.

Specs:

Wildlife Comment: Retain some Black Cherry (10%) black bear, ruffed grouse. Add a winter cutting specification and no chipping. – Deer wintering complex

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce, fir, hemlock, maple, birch, cedar, and aspen.

Regen:OtherComment:

Proposed Start Date: 10/1 /2020

**Total Treatment
Acreage Proposed: 120.3**

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 291
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		2I	5C	2G	2H	3A	3J	5E	
147	147	0	0	Aspen								
2	2	0	0	Bare/Sparsely Vegetated								
75	66	0	8	Hemlock					8			
1	1	0	0	Herbaceous Openland								
229	229	0	0	Lowland Aspen/Balsam Poplar								
382	123	154	106	Lowland Deciduous		154	11	0		94	0	
13	13	0	0	Lowland Shrub								
9	0	0	9	Lowland Spruce/Fir			9					
394	279	107	8	Northern Hardwood	107					8		
1,251	860	261	131	Total Forested Acres	107	154	20	0	8	102	0	
	69%	21%	10%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	94	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	106	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 291
Year of Entry: 2021

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3A: Conservation Values incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Met with Josh Cohen with MNFI in July 2019 in this stand. Josh did a survey and will submit a report.							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	2I: Survey needed	4	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 291
Year of Entry: 2021

10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2I: Survey needed	89	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	2I: Survey needed	14	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
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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
1	4112 - Maple, Beech, Cherry Association	Poletimber Well	16.1	78	81-110	N/A	Stand was selectively thinned under sale # 120-11. Poor quality hardwood remains with scattered stump sprout regeneration within the understory.																																	
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>30</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Pole</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	30	Pole/Log	9		Black Cherry	10	Pole	9		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Sapling	Red Maple	Medium	Variable	Sapling										
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2	6113 - Lowland Maple	Poletimber Well	48.4	78	81-110	N/A	Stand of poor quality hardwood. Pockets of hemlock exist throughout the stand.																																	
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3	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	66.3	100	111-140	N/A	Stand includes the Sand River and it's floodplain area. Ground goes from low to high depending on where you are.																																	
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4	4112 - Maple, Beech, Cherry Association	Poletimber Well	172.4	71	81-110	N/A	Stand was selectively harvested in the winters of 2013 & 2014. TS# 120-11. Stand currently contains a mix of both sugar maple and red maple poles along with scattered yellow birch, hemlock, and quaking aspen. Maple is poorer quality given the soil type. Hemlock is large diameter and occurs in patches within the stand. The understory is starting to regenerate back to a mix of maple, ironwood, and fir. I did notice a few hemlock regenerating as well.																																	
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5	4110 - Sugar Maple Association	Poletimber Well	15.7	51	81-110	N/A	Stand of young pole sized hardwood mixed with black cherry and red maple. The stand quality is poor. A couple super-canopy white pine exist within the stand. Manage with stand 6 in the future.																																	
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6	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	96.9	51	51-80	N/A	Stand contains a mix of species. Ground varies depending on where you are within the stand. Some large diameter hemlock and cedar exist along the stream riparian corridor. Numerous seeps exist throughout the stand. Overall the stand contains small diameter timber due to the wet ground that exists. Stand could be managed in the future. Currently, the majority of timber in sub-merchantable.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
7	4110 - Sugar Maple Association	Sawtimber Well	60.3	71	81-110	N/A	Stand was harvested in 2013: TS# 119-11-01. Stand looks good and healthy. Tree selection from the last selective harvest was on the poor end. A fair number of poorer quality suppressed trees still exist in and around the crop trees. Sugar maple regeneration within the canopy gaps look good with most saplings in the 2-3' range. I took 8 plots to check basal area and came up with an average of 98 square feet. Hold for another 10 years to allow regeneration to become more established and allow more trees to grow into the log class size.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Sugar Maple		98	Log/Pole	11	71	Sugar Maple		Medium	Variable	Sapling
Ironwood						Ironwood		Medium	Variable	Sapling
9	6122 - Black Spruce	Poletimber Medium	8.5	86	51-80	N/A	Stand of lowland black spruce. Stand is healthy and holding up well. Scattered aspen and red maple occurs in pockets throughout the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Black Spruce		85	Pole	9	86	Red Maple		Medium	Variable	Sapling
Quaking Aspen		10	Pole	9						
10	4130 - Aspen	Poletimber Medium	43.2	39	1-50	N/A	Stand was harvested in 1980. TS# 23-80. Stand consists of fully stocked aspen and red maple. Ground is wet in some areas.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Quaking Aspen		70	Pole	7	39	Red Maple		High	Variable	Sapling
Red Maple		30	Pole/Sapling	6						
11	4110 - Sugar Maple Association	Poletimber Well	13.5	71	111-140	N/A	Stand harvested in 2005: TS# 122-01-01. Stand consists of decent pole sized sugar maple poles. Ironwood saplings are filling in within the understory in some locations. I noticed a few small vernal pools within the stand that are currently holding water. Basal averages 110-120 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Sugar Maple		95	Pole	9	71	Ironwood		Medium	Variable	Sapling
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12	4130 - Aspen	Sapling Well	15.9	26	Immature	N/A	Stand harvested in 1993. TS# 2-91. Stand consists of fully stocked aspen. Pockets of big tooth aspen exist as well. Red maple is dense within the understory.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		20	Pole/Sapling	5		Balsam Fir		Low	Variable	Sapling
Red Maple		20	Pole/Sapling	5		Red Maple		High	Variable	Sapling
Quaking Aspen		50	Pole/Sapling	6	26	Quaking Aspen		Low	Variable	Sapling
Paper Birch		10	Pole/Sapling	5						
13	41199 - Northern Hardwood (OI)	Poletimber Well	1.6	182	51-80	N/A	OPIC - FMD: Harvested in 2013: TS# 119-11-01.			
14	41199 - Northern Hardwood (OI)	Poletimber Well	2.9	182	51-80	N/A	OPIC - FMD: Harvested in 2013: TS# 119-11-01.			
15	6299 - Lowland Shrub (OI)	Nonstocked	3.0			No				
16	6299 - Lowland Shrub (OI)	Nonstocked	10.1			No	OPIC - FMD: OI Stand Year Origin was			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
17	6112 - Lowland Aspen	Poletimber Well	166.2	36	1-50	N/A	Stand was harvested in 83-84. TS# 5-81. Stand consists of lowland aspen. Aspen stem diameter varies depending on the location. Overall the aspen looks healthy within the stand.																																									
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18	6112 - Lowland Aspen	Sapling Well	52.2	26	Immature	N/A	Stand was harvested in the summer of 1993. TS# 2-91. Stand consists of fully stocked aspen. Ground is low in most locations.																																									
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19	4130 - Aspen	Sapling Well	19.9	14	Immature	N/A	Stand was harvested in 2005: TS#122-01-01. Stand consists of fully stocked aspen with an understory of red maple. Aspen is in good condition and healthy.																																									
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20	61199 - Lowland Hardwood (OI)	Poletimber Well	23.8	182	51-80	N/A	OPIC - FMD: Contains Q and S inclusions.																																									
21	4110 - Sugar Maple Association	Poletimber Well	70.5	79	81-110	N/A	Stand was last thinned in 1982 and was thinned hard. Basal area currently ranges between 80 to 100 square feet. Some good quality sugar maple saplings are advancing into the pole class. Allow the stand to further mature and increase in basal area. I noticed two distinct streams flowing east/west through this stand.																																									
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22	7909 - Nonstocked (OI)	Nonstocked	1.0			No	OPIC - FMD: GRAVEL PIT.																																									
23	7909 - Nonstocked (OI)	Nonstocked	1.4			No	OPIC - FMD: GRAVEL PIT.																																									
24	6113 - Lowland Maple	Poletimber Well	11.4	78	51-80	N/A	Lowland stand that has a drainage going through it. Maple is small diameter due to the wet ground. Do not harvest due to the wet ground and riparian area.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
25	6113 - Lowland Maple	Poletimber Well	105.7	78	81-110	N/A	Stand of poorer quality red and sugar maple. Pockets of X Log hemlock within the stand. Wet areas exist throughout.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Maple		68	Pole/Log	9	78	Ironwood		Low	Variable	Sapling
Sugar Maple		15	Pole/Log	9		Balsam Fir		Medium	Variable	Sapling
Black Cherry		10	Log/Pole	11		Hemlock		Low	Variable	Sapling
						Sugar Maple		Low	Variable	Sapling
						Red Maple	Low	Variable	Sapling	
26	4112 - Maple, Beech, Cherry Association	Poletimber Well	14.6	70	81-110	N/A	Small stand of hardwood. Numerous drainages throughout. Do not harvest due to BMP concerns.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Quaking Aspen		20	Pole/Log	9		Balsam Fir		Medium	Variable	Sapling
Sugar Maple		30	Pole/Log	9						
Red Maple		50	Pole/Log	9	70					
27	61199 - Lowland Hardwood (OI)	Poletimber Well	1.8	182	81-110	N/A				
28	4110 - Sugar Maple Association	Sawtimber Well	6.3	82	81-110	N/A	Stand was harvested in 2005: TS#122-01-01. Stand consists of decent quality hardwood. Dense ironwood regeneration exists within the understory. Basal area ranges from 80 - 100 Square feet. A few mature green ash are scattered throughout the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Sugar Maple		80	Log/Pole	13	82	Ironwood		Full	5 - 10 feet	Sapling
Red Maple		15	Log/Pole	14		Sugar Maple		Low	5 - 10 feet	Sapling
29	4130 - Aspen	Sapling Well	67.9	14	Immature	N/A	Stand was harvested in 2005: TS#122-01-01. Stand consists of healthy fully stocked aspen. Some scattered red maple stump sprouts exist throughout the stand as well.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Quaking Aspen		95	Sapling	3	14	Red Maple		High	5 - 10 feet	Sapling
						Quaking Aspen		Medium	10 - 20 feet	Sapling
30	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.7	71	81-110	N/A	Stand harvested in 2005: TS#122-01-01. Stand of poorer quality hardwood. Very few crop trees exist within the stand. When managed, manage it with even aged methods.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Maple		88	Log/Pole	12	71	Ironwood		High	Variable	Sapling
Sugar Maple		10	Log/Pole	11		Red Maple		Medium	Variable	Sapling
31	6112 - Lowland Aspen	Sapling Medium	10.3	14	Immature	N/A	Stand was harvested in 2005: TS#122-01-01. Stand consists of young aspen which is growing on low ground. A sizeable pocket of tag alder exists within the stand. Paper birch and tag alder mixed in throughout the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Quaking Aspen		70	Sapling	2	14	Tag Alder		High	5 - 10 feet	Tall Shrub
Paper Birch		10	Sapling	2		Red Maple		Medium	Variable	Sapling
Red Maple		20	Sapling/Pole	4		Paper Birch		Low	Variable	Sapling
						Quaking Aspen		Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
32	42350 - Upland Hemlock	Sawtimber Well	8.3	200	171-200	N/A	Stand of old growth hemlock with ash/red maple swales within the stand. A couple super canopy white pine exist within the stand at around 32" diameter. Decent hemlock regeneration exists within the canopy gaps and along the edges of the stand. The average diameter of hemlock varies depending on where you stand. OG stand most likely extends into adjacent compartments. A very unique stand! some large hemlock CWD on the ground. Northwest corner of the stand contains the oldest patch of hemlock. I would consider the NW corner of this compartment Type 1 old growth.																																							
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33	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	94.3	79	81-110	N/A	Intermittent streams within the stand. Ground is wet in most areas with a few upland pockets here and there which support better quality timber. A sizeable stream flows out of the ash swales and heads north along the eastern edge of the stand.																																							
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34	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.2	78	81-110	N/A	Stand of poorer quality hardwood with inclusions of hemlock. Buffer stream along south edge for BMP's and retention.																																							
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400	31029 - Grass (OI)	Nonstocked	0.8			No	OPIC - FMD: OI Stand Year Origin was																																							