



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32266

Entry Year 2022

Acreage: 1,091

County Marquette

Management Area: Chain Lakes Moraine

Revision Date: 2020-08-03

Stand Examiner: Rick Hill

Legal Description:

T45N R27W, Sections 20 and 21

Identified Planning Goals:

Vegetative management in the Chain Lake 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, lowland conifer and lowland spruce/fir; maintaining the conifer component in northern hardwood stands; maintaining the presence of minor cover types on the landscape; and maintaining non-forest vegetation types.

Soil and topography:

Soils in this compartment fall into the following associations: Rubicon-Sayner, Grayling, and Kalkaska-Carbondale-Deford. These soils are very deep, excessively drained, sandy soils (Rubicon-Sayner and Grayling) and very deep, somewhat excessively to very poorly drained, sandy and mucky soils (Kalkaska-Carbondale-Deford). They occur on outwash plains and terraces with the poorly drained soils being in the drainages and depressions. Topography in this area is nearly level to very hilly. Steep slopes exist along the Bryan Creek corridor.

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

Ownership in this portion of the landscape is predominantly State with some scattered private individual ownership. There is a large block of private club land (Michigan Northwoods Club) located to the north of the compartment. Development is recreational homes (Northwoods Club) and camps. Land use is associated with timber production, hunting, fishing, and general recreation.

Unique Natural Features:

None known

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

there are a few riparian management zones present in the compartment.

Watershed and Fisheries Considerations:

Bryan Creek and the headwaters of a small tributary to Bryan Creek are present within this compartment. Bryan Creek is a cold-water stream and will be buffered to protect water quality.

Wildlife Habitat Considerations:

Compartment 266 is found within the Chain Lakes Moraine Management Area; on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for the Chain Lakes Management Area: black bear, gray jay, pileated woodpecker, Northern goshawk, red crossbill.

Mineral Resource and Development Concerns and/or Restrictions

Marquette County Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. Some of the Granite/Gneiss

might be used for dimension stone. A rock (?) quarry is indicated on the topo seven miles to the west. Gravel pits are located just to the west of the compartment, and potential appears to be good. This compartment has never been leased; as it is mostly surface only. There is no economic oil and gas production in the UP.

Vehicle Access:

Access to the compartment is good. County roads PW (Bryan Creek Road) and PPZ provide direct access, the remainder is along woods roads. Some of these roads have berms in place to limit vehicle access beyond certain points.

Survey Needs:

None at this time

Recreational Facilities and Opportunities:

No developed recreational facilities exist at this time and no opportunity exists. The main types of recreation in the compartment are low intensity hunting and fishing.

Fire Protection:

Several volatile fuel types are found in the compartment and the surrounding landscape. The compartment resides on the southeast end of a larger sandy outwash plain. A large grass opening (approximately a section in size) is immediately to the west of the compartment, several hundred acres of jack pine with some red and white pine stands mixed in are located within the compartment and to the north and northwest of the compartment. Age of the jack pine stands range from young seedling and sapling to mature, the red and white pine stands are mature, with understories of spruce-fir and some being relatively open. The road system in this area is adequate enough to handle current fire suppression equipment and provides adequate fire breaks for ground fire activity.

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

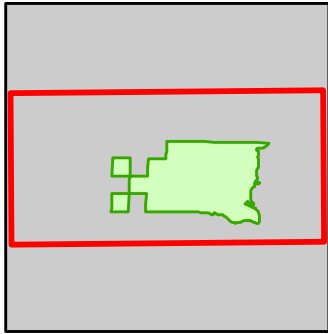


Age Class

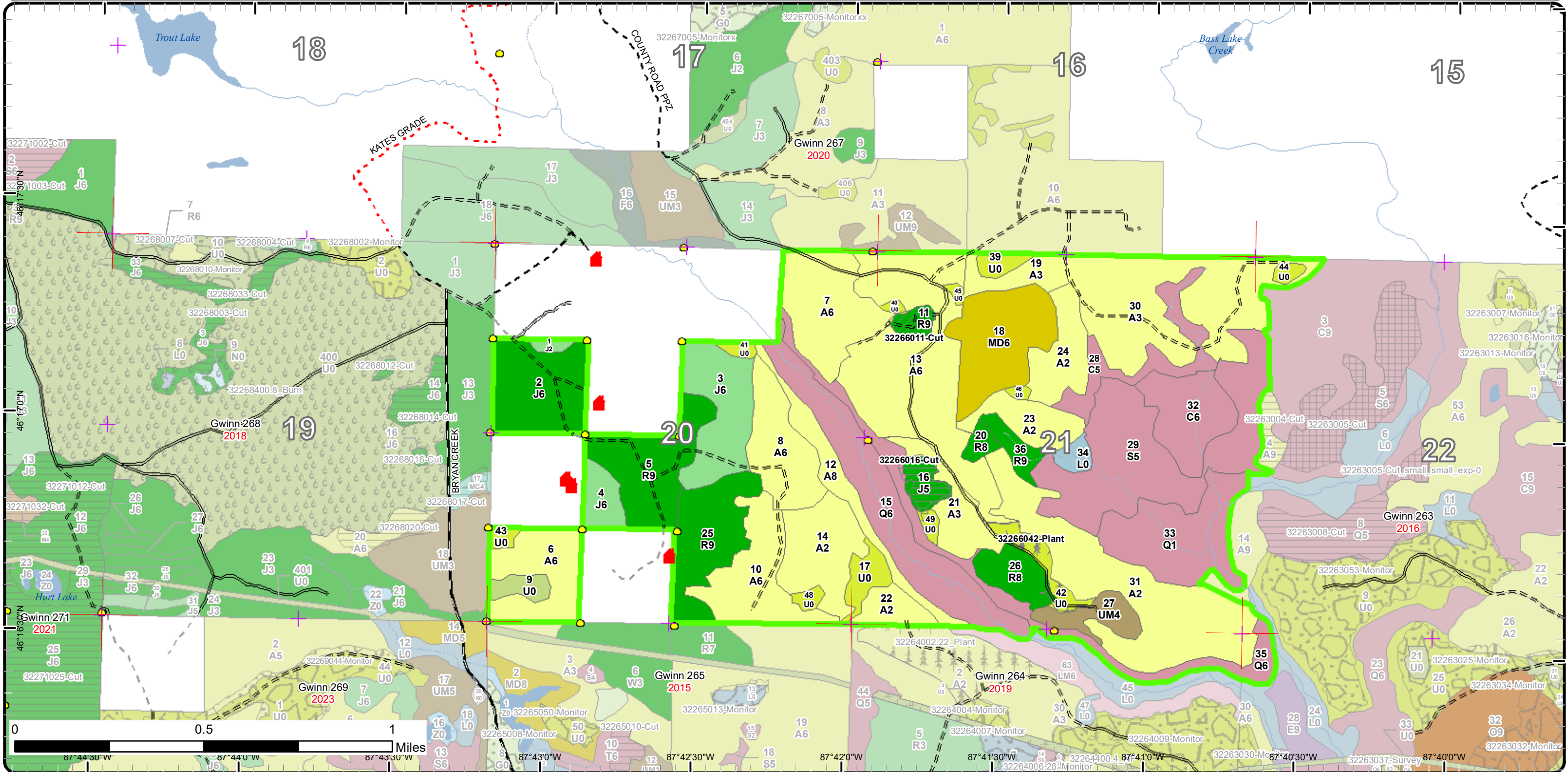
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	80	94	17	277	31	0	0	0	20	0	0	0	0	0	0	0	0	517
Cedar	0	0	0	0	0	0	0	0	0	0	0	21	29	0	0	0	0	0	50
Jack Pine	0	0	2	0	35	48	8	0	0	0	0	0	0	0	0	0	0	0	92
Low-Density Trees	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Lowland Conifers	0	0	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0	94	139
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	84	0	0	0	0	0	0	0	84
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	42
Red Pine	0	0	0	0	0	0	0	0	73	0	30	0	0	0	0	0	0	0	103
Upland Mixed Forest	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Upland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	48	80	96	30	357	79	8	0	73	20	114	63	29	0	0	0	0	94	1087

Cover Type & Treatments Map

Compartment: 266
 T45N, R27W, Sec: 20, 21, 22, 27,
 28
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2022
 Acres: 1091.2 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 3/5/2021
 Map Phase: Post-Review

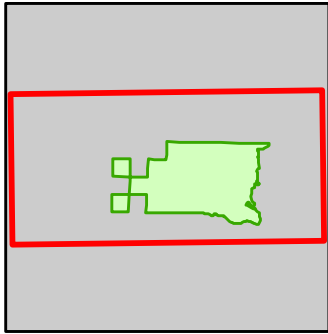


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Cabin
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Planting (tree species)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub

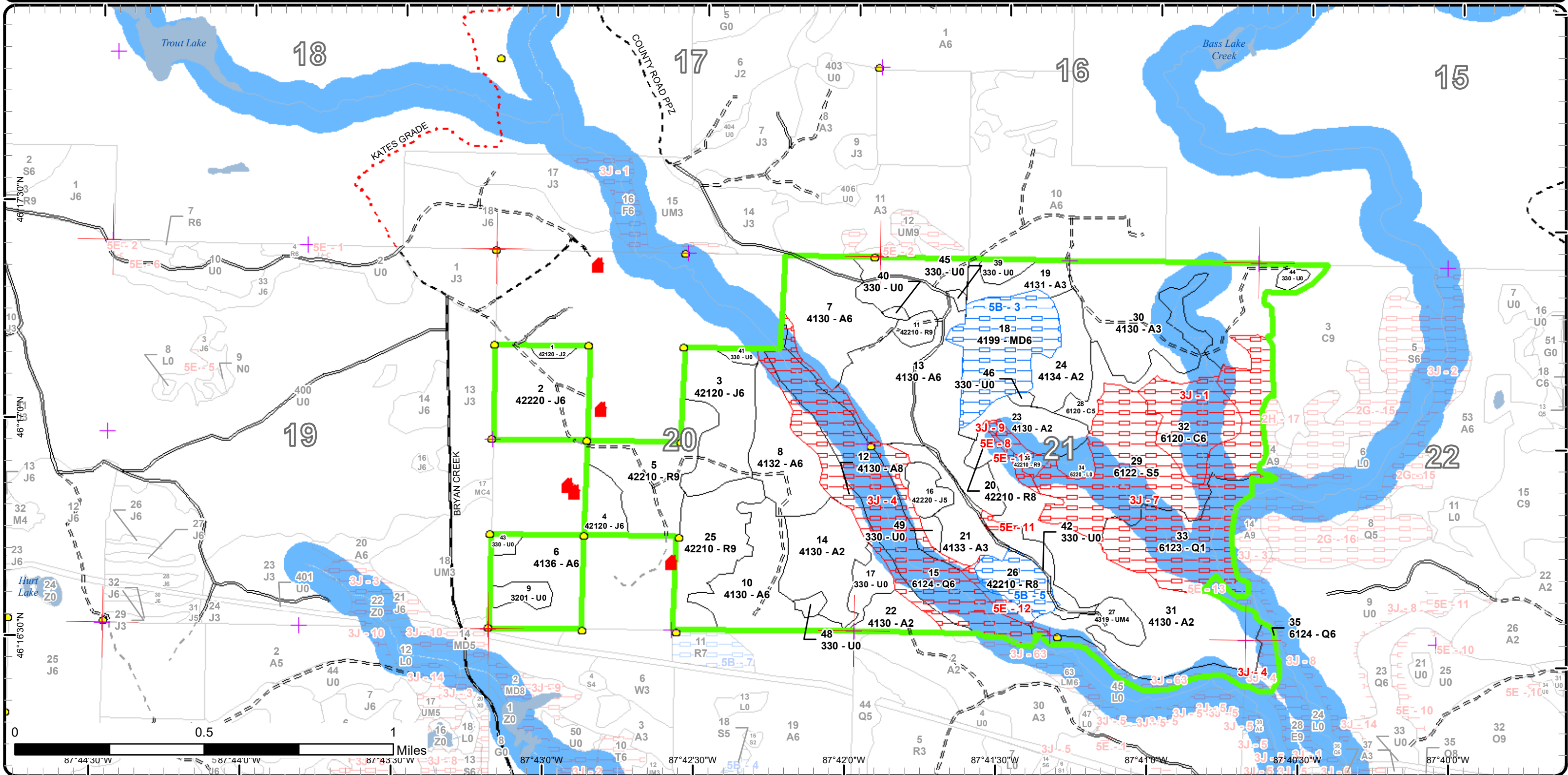


Special Conservation Areas

Compartment: 266
 T45N, R27W, Sec: 20, 21, 22, 27, 28
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
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- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 266
Total Compartment Acres: 1,091

Commercial Harvest - 12
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	8	0	0	0	0	0	0	0	0	8
Red Pine	0	0	0	0	5	0	0	0	0	5
Total	8	0	0	0	5	0	0	0	0	12

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	12	0	9	0	0	0	0	0	0	21
Next Step	0	15	15	8	0	17	41	0	0	95
Total	12	15	24	8	0	17	41	0	0	116



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

11	32266011-Cut	4.9	42210 - Natural Red Pine	Sawtimber Well	95	111- 140	Harvest	Crown Thinning	4221 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand to a residual BA 100 Sq Ft. mark for operability, to improve spacing, remove defective trees, and release crop trees. Cut all <u>Specs:</u> aspen and Jack pine favor white pine in marking.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> Strive to maintain as much deciduous tree diversity as possible black bear, pileated woodpecker. This stand is Game Fund Purchased <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
16	32266016-Cut	7.5	42220 - Natural Jack Pine	Poetimber Medium	56	Unspec ified	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees over 2 inches at DBH. Leave all oak, white pine, and red pine. Use a stump height spec. Leave a small buffer on the west side <u>Specs:</u> of the stand ensure that underrepresented species are present.</p> <p><u>Next Step</u> SitePrep, Trenching; SitePrep, Scarification; Planting, Initial Plant; Planting, Replant; Seeding, Machine Seed; Pesticide, Skidder - <u>Treatments:</u> Site Prep; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Monitoring, Direct Seedi</p> <p><u>Acceptable</u> Jack pine, aspen, oak, mixed conifer, mixed hardwood <u>Regen:</u></p> <p><u>Other</u> This stand is Game Fund Purchased. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
42	32266042- Plant	9.0	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Planting	Initial Plant	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Red pine at 900 TPA <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr) <u>Treatments:</u></p> <p><u>Acceptable</u> Red pine, spruce, fir <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

Total Treatment 21.4
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 266
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	2H	3J	5E
		With Condition	Not Available					
518	497	0	22	Aspen			20	1
50	21	0	29	Cedar			29	
93	93	0	0	Jack Pine				
37	37	0	0	Low-Density Trees			0	
139	1	0	139	Lowland Conifers			134	5
4	4	0	0	Lowland Shrub				
84	0	0	84	Lowland Spruce/Fir		0	84	
42	0	42	0	Mixed Upland Deciduous	42			
104	82	14	7	Red Pine	14		5	3
13	13	0	0	Upland Mixed Forest				
6	6	0	0	Upland Shrub				
1,091	754	56	281	Total Forested Acres	56	0	273	9
	69%	5%	26%	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	3J: Water quality / BMPs (stream, river, or lake)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5B: Maintain for regeneration purposes	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	93	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 266
Year of Entry: 2022

5	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	130	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	5	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 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	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	42120 - Planted Jack Pine	Sapling Medium	2.3	17	Unspecified	N/A	Seeded 2003																																																						
<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>Jack Pine</td> <td>100</td> <td>Sapling</td> <td>1</td> <td>17</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	100	Sapling	1	17																																												
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Jack Pine	100	Sapling	1	17																																																									
2	42220 - Natural Jack Pine	Poletimber Well	37.6	43	51-80	N/A	Scarified in the fall of 1976 and seeded by helicopter in spring of 1977.																																																						
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3	42120 - Planted Jack Pine	Poletimber Well	34.5	34	51-80	N/A	Jack pine poles (just entering this size class), mixed with pockets of aspen. Scattered red pine poles and logs. Stand was cut in 1984, permit #10-82 (Holli Forest Products). Herbicided and trenched in 1985, planted May 1986.																																																						
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4	42120 - Planted Jack Pine	Poletimber Well	10.6	43	51-80	N/A	Seeded jack pine with scattered red pine logs																																																						
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5	42210 - Natural Red Pine	Sawtimber Well	37.4	76	51-80	N/A	A portion of this stand (north 1/3) was thinned 20 years ago.																																																						
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6	4136 - Aspen, Mixed Conifer	Poletimber Well	30.5	40	Unspecified	N/A																																																							
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7	4130 - Aspen	Poletimber Well	40.8	37	1-50	N/A	Mixed aspen stand with red maple in the understory. Scattered red and white pine throughout the stand and some oak seedlings. Stand was cut in 1980-83 by Dave Holli (Permit #5-78) then KG'd in 1983. Where the oak had been cut there is good stump sprout regeneration. The oak sprouts are keeping up with the aspen sprouts.																																																						
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8	4132 - Aspen, Jack Pine	Poletimber Well	30.6	35	1-50	N/A	This stand is a mix of aspen and jack pine with a few scattered remnant red pine saw log size trees. There are a few scattered oaks, spruce, and balsam primarily along the southeast edge. This stand was originally part of the stand to the west. It was herbicided, trenched and planted but aspen took over as the dominant tree species.																																															
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9	3201 - Sweet Fern	Nonstocked	5.9			No																																																
10	4130 - Aspen	Poletimber Well	36.3	35	1-50	N/A	Scattered red and white pine seedlings and saplings. Stand was harvested in 1984-85 by Dave Holli (Permit #9-80). White pine and oak were left.																																															
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11	42210 - Natural Red Pine	Sawtimber Well	5.0	95	111-140	N/A	Heavy white pine understory. Scattered red pine regen as well. West end is more poles and heavier to jack pine.																																															
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12	4130 - Aspen	Sawtimber Medium	19.8	88	81-110	N/A	Decadent stand of bigtooth aspen that is beginning to fall apart. Mixed conifer's starting to recruit in the understory. Stand is on a steep (45% slope) hillside along Bryan Creek. It is providing a good buffer to the stream and a wildlife corridor.																																															
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13	4130 - Aspen	Poletimber Well	88.1	37	1-50	N/A	Stand has residual oak in the overstory. There are oak stump sprouts throughout that are competing with the aspen and keeping up in terms of hieght growth. Scattered red and white pine seedlings and saplings throughout. Stand was cut in 1980-83 by Dave Holli and KG'd in 1983.																																															
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14	4130 - Aspen	Sapling Medium	32.2	15	Unspecified	N/A	Stand was cut in fall of 2005 by Gary Gazan Contracting (#114-02-01). It was a shortwood operation. All oak, cherry, red and white pine were left. The residual red pine has seeded and there is a fair amount of red pine seedlings coming in. Some white pine as well, but no oaks.																																																															
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15	6124 - Lowland Spruce-Fir	Poletimber Well	59.6	110	Unspecified	N/A	SCA=>Potential Old Growth- Bryan Creek runs through this stand (cold water trout stream).																																																															
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16	42220 - Natural Jack Pine	Poletimber Medium	7.9	56	Unspecified	N/A	Mixed stand of jack pine, red maple with lesser components of white birch and oak.																																																															
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17	330 - Low-Density Trees	Nonstocked	8.5			No																																																																
18	4199 - Other Mixed Upland Deciduous	Poletimber Well	41.6	102	51-80	N/A	There is a trace of white spruce, white pine and big tooth aspen in the canopy. Semi-open to closed canopy. Open where it had been heavier to aspen. There are some oak saplings above 5 feet. Stand was harvested in summer of 1993 by Oro Logging (St. John) (Permit #8-92). All oak were left and a 2-inch cutting spec was used on the other species.																																																															
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19	4131 - Aspen, Oak	Sapling Well	12.0	17	Immature	N/A	This stand could be lumped in with the stand immediately adjacent to the southwest. Oak is the same age, though the aspen and red maple are 10 years younger. Stand was cut in 2002 (#115-02-01).																																																															
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20	42210 - Natural Red Pine	Sawtimber Medium	4.0	95	81-110	N/A	Mature red pine stand harvested in the winter of 2016-17 by Minerick Logging under 32-111-12-01 Bryan Creek Aspen. The sale was full tree skidded this should provide sufficient scarification.																																																		
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21	4133 - Aspen, Mixed Pine	Sapling Well	18.2	17	Unspecified	N/A	Harvested summer 2002 by John Heidtman #32-115-02-01, "Sputnik Buck Aspen Sale". Birch seed trees were left as were oak and red and white pine. A portion of the stand (south and east) was subsequently herbicided with Tordon (6 qt's/ac., 23 gal's on 15 acres), trenched and planted with red pine in spring 2004. Stand is now a mix of aspen and red pine regen. Scattered red pine and oak along with red and white pine poles.																																																		
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22	4130 - Aspen	Sapling Medium	10.7	15		N/A	Stand was surveyed in February of 2009 as part of the regen walk through survey. A birch seedtree cut was done here and has failed to produce a well stocked stand. It was requested at the time that the TMS order a formal regen survey for this stand.																																																		
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23	4130 - Aspen	Sapling Medium	16.9	26	Unspecified	N/A	Variable stand. Type transitions to the south; more jack pine and tamarack on southwest.																																																		
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24	4134 - Aspen, Spruce/Fir	Sapling Medium	20.9	18	Unspecified	N/A	Harvested 2002, TS #32-115-02-01. Birch seed trees, oak and red pine were left.																																																		
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25	42210 - Natural Red Pine	Sawtimber Well	35.9	76	81-110	N/A	Stand was thinned in 2014 by bell timber. under sale 32-110-12-01 Pewee Pine.																																																		
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26	42210 - Natural Red Pine	Sawtimber Medium	14.3	93	81-110	N/A	Mature red pine stand harvested in the winter of 2016-17 by Minerick Logging under 32-111-12-01 Bryan Creek Aspen. Logging should provide sufficient scarification. The Rx was modified though chapter 7 to allow for under planting of red pine to fill in gaps. Stand was selectively cut in 2002 TS#115-02-01. All the red maple, birch and any aspen were removed from this stand as well as merchantable spruce and fir.																																																											
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27	4319 - Mixed Upland Forest	Poletimber Poor	12.6	27	Immature	N/A	This stand is the result of a failed birch seed tree harvest. It is poorly stocked with red pine, balsam fir and white spruce. An occasional pocket of aspen exists. There is no white birch regen. Stand was cut in 1993 by Oro Logging, permit #8-92.																																																											
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28	6120 - Lowland Cedar	Poletimber Medium	21.2	102	Unspecified	N/A	Corridor along creek. Providing a good buffer. Scattered overstory (supercanopy) white pine. Stand contains both white pine and white birch (pine being more in the north part of stand).																																																											
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29	6122 - Black Spruce	Poletimber Medium	84.4	96	81-110	N/A	Black spruce with scattered tamarack. Aspen and white birch occur along the edge (northwest and south) of stand (transition zone). Riddled with water. Springs and creeks throughout the stand. Standing frozen water throughout the stand inbetween grass hummocks. Lots of deer movement through the stand.																																																											
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30	4130 - Aspen	Sapling Well	80.8	31	1-50	N/A																																																												
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31	4130 - Aspen	Sapling Medium	80.4	6	Immature	N/A	6-7 stick aspen, almost appears to be 2 stands from past cutting practices. Diameter's range from 8-14". A small portion of this stand on the east end was a separate POG stand at last entry. It has been encompassed in this stand but removed from the treatment layer.																																																		
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32	6120 - Lowland Cedar	Poletimber Well	29.1	111	201+	N/A	No understory. Typical cedar stand. Would be good SCA; riddled with water and lots of deer movement through this stand at this time. Fairly nice cedar. Stream runs through this stand and was POG last time (stream corridor was).																																																		
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33	6123 - Lowland Fir	Sapling Poor	45.3	36	1-50	N/A																																																			
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34	6220 - Alder/willow	Nonstocked	4.5	0		No																																																			
35	6124 - Lowland Spruce-Fir	Poletimber Well	34.6	110	Unspecified	N/A	Bryan Creek runs through this stand (cold water trout stream).																																																		
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36	42210 - Natural Red Pine	Sawtimber Well	7.4	95	111-140	N/A	Mature red pine stand with scattered big tooth aspen, white birch, red oak and red maple. Aspen are in clone pockets. Trace of white pine seedlings in this stand as well.																																																		
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39	330 - Low-Density Trees	Nonstocked	4.4	0		No																																																			



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40	330 - Low-Density Trees	Nonstocked	1.1	0		No	Stand has residual oak in the overstory. There are oak stump sprouts throughout that are competing with the aspen and keeping up in terms of hieght growth. Scattered red and white pine seedlings and saplings throughout. Stand was cut in 1980-83 by Dave Holli and KG'd in 1983.
41	330 - Low-Density Trees	Nonstocked	2.2	0		No	
42	330 - Low-Density Trees	Nonstocked	9.2	0	Unspecified	4211 - Planted Red Pine	This stand was harvested in the spring of 2016 by Minerick Logging under 32-111-12-01 Bryan Creek Aspen. This site will be trenched and planted to red pine under C32-896. This stand is the result of a failed birch seed tree harvest. It is poorly stocked with red pine, balsam fir and white spruce. An occassional pocket of aspen exists. There is no white birch regen. Stand was cut in 1993 by Oro Logging, permit #8-92.
43	330 - Low-Density Trees	Nonstocked	2.5	0		No	
44	330 - Low-Density Trees	Nonstocked	2.3	0		No	
45	330 - Low-Density Trees	Nonstocked	1.2	0		No	Stand has residual oak in the overstory. There are oak stump sprouts throughout that are competing with the aspen and keeping up in terms of hieght growth. Scattered red and white pine seedlings and saplings throughout. Stand was cut in 1980-83 by Dave Holli and KG'd in 1983.
46	330 - Low-Density Trees	Nonstocked	1.2	0		No	Harvested 2002, TS #32-115-02-01. Birch seed trees, oak and red pine were left.
48	330 - Low-Density Trees	Nonstocked	2.4	0		No	Stand was cut in fall of 2005 by Gary Gazan Contracting (#114-02-01). It was a shortwood operation. All oak, cherry, red and white pine were left. The residual red pine has seeded and there is a fair amount of red pine seedlings coming in. Some white pine as well, but no oaks.
49	330 - Low-Density Trees	Nonstocked	2.3	0		No	