



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32206

Entry Year 2022

Acreage: 836

County Marquette

Management Area: Yellowdog Plains

Revision Date: 2020-07-23

Stand Examiner: Rick Hill

Legal Description:

T50N-R28W Sections 16-18, 20

Identified Planning Goals:

Vegetative management in the Yellow Dog Plains 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 jack pine; 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:

This compartment is situated on the eastern edge of the yellow dog plains. Terrain is flat with some hills starting on the far eastern edge. Soils are sandy consisting of Sayner-Rubicon sands, Keweenaw-Kalkaska sands, and Rubicon sands.

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

This area is a matrix of Industrial forest land, non-industrial private forest lands and properties related to the eagle mine.

Unique Natural Features:

none

Archeological, Historical, and Cultural Features:

Under review

Special Management Designations or Considerations:

A small RMZ is located in stand 9

Watershed and Fisheries Considerations:

The Yellow Dog River flows just south of the compartment. There is a vary small area of riparian management zone related to the yellow dog.

Wildlife Habitat Considerations:

Compartment 206 is found within the Yellow Dog Plains Management Area; which is on an Outwash Plain in northern Marquette County. The State Forest covers about 3,800 acres and is somewhat scattered parcels. The dominant natural communities are dry northern forest. The major forest cover type is jack pine. This management area provides multiple benefits to the public including forest products, dispersed recreational activities, and habitat for fish and wildlife species. The management priority in this area is to continue to provide these multiple benefits in a sustainable manner while minimizing user conflicts. Wildlife considerations in the Yellow Dog Plains Management Area consist of managing jack pine habitat with strategies that more closely mimic natural fire disturbance regimes, to increase early successional jack pine management where appropriate while increasing stand size and striving to accommodate many species associated with xeric forest habitat is desirable. Some of the most significant wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; within stand diversity; mature forest condition; mesic conifer; large open land complexes; and early successional forest.

The following have been identified as featured species for the Yellow Dog Plains Management Area: Black Bear, Gray Jay, Kirtland's Warbler, Spruce Grouse, and Upland Sandpiper.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor amounts of coarse-textured glacial till. The glacial drift thickness varies between 10 and 50 feet and insufficient data to determine the thickness. The Precambrian Michigamme Formation subcrops below the Glacial Drift. There is not a current economic use for the Michigamme. Gravel pits are not located in the area, and potential appears to be limited. A silver prospect is located three miles to the south. This compartment and nearby State land are leased for metallic exploration. Kennecott

Eagle mine is located just to the west of this Compartment. There is no economic oil and gas production in the UP.

Vehicle Access:

Much of the compartment has all season road access via county road AAA. The rest of the compartment is accessed via dirt roads and county seasonal roads.

Survey Needs:

Any needed surveys will be submitted after review.

Recreational Facilities and Opportunities:

This compartment contains a Snowmobile Trail. Other recreational opportunities in this compartment include berry picking and hunting.

Fire Protection:

This area has a high fire risk due to dry soils and fire prone forests. Terrain lends itself to mechanized firefighting, though this area is located a considerable distance from staffed offices.

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

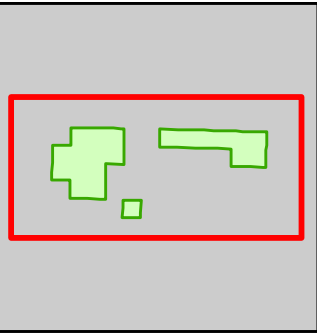


Age Class

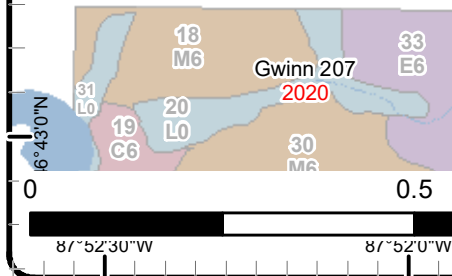
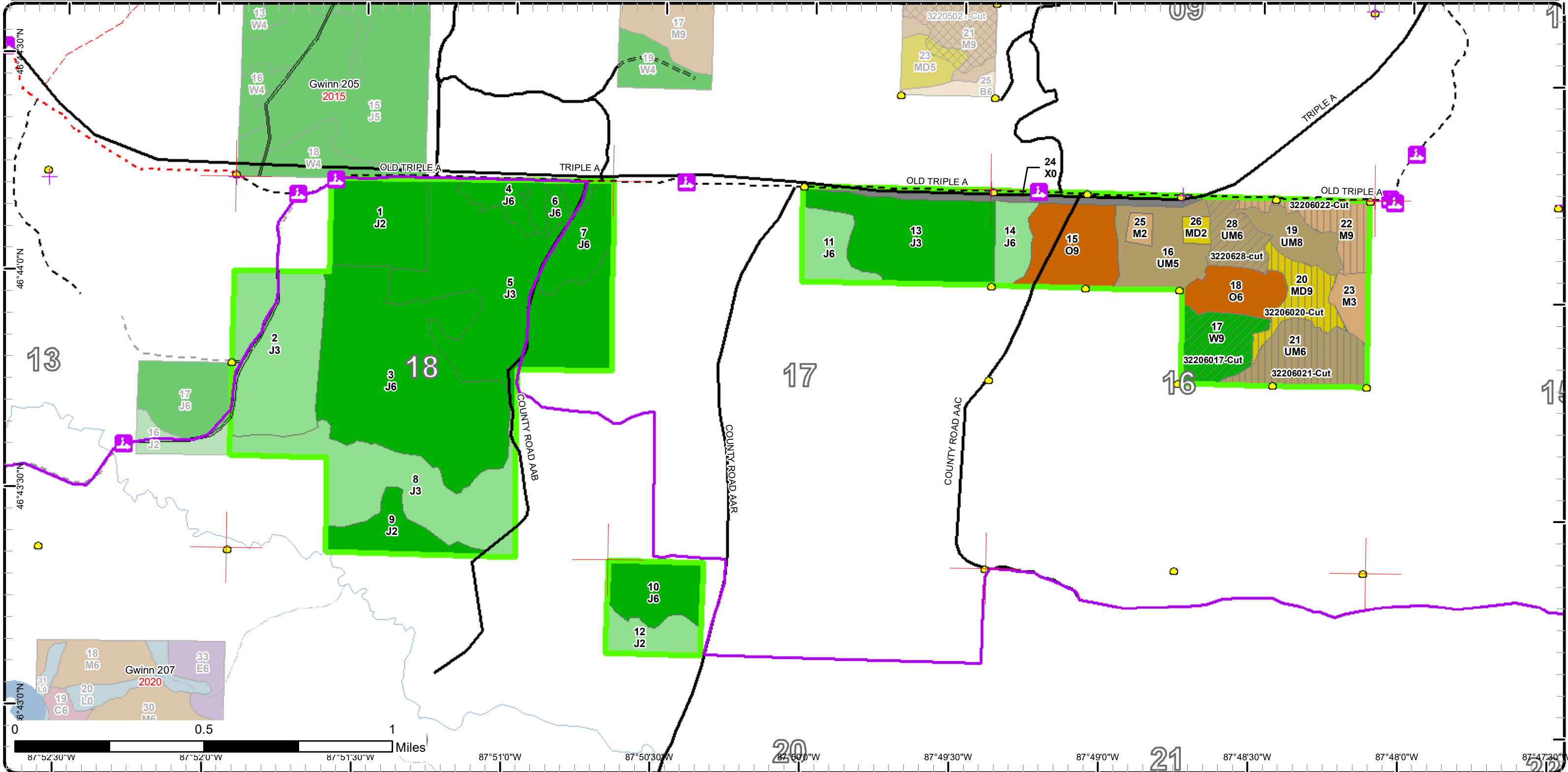
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Jack Pine	0	71	123	139	10	262	0	0	0	0	0	0	0	0	0	0	0	0	605
Mixed Upland Deciduous	0	3	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	21
Northern Hardwood	0	3	0	0	0	0	9	0	0	0	18	0	0	0	0	0	0	0	30
Oak	0	0	0	0	0	0	52	0	0	0	0	0	0	0	0	0	0	0	52
Upland Mixed Forest	0	0	0	0	0	0	27	0	0	0	60	0	0	0	0	0	0	0	87
Urban	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
White Pine	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	23
Total	17	77	123	139	10	262	9	79	0	0	0	119	0	0	0	0	0	0	835

Cover Type & Treatments Map

Compartment: 206
 T50N, R28W, Sec: 16, 17, 18
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Yellowdog Plains
 YOE: 2022
 Acres: 836.3 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 3/3/2021
 Map Phase: Post-Review

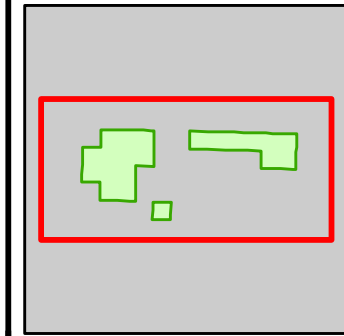


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot

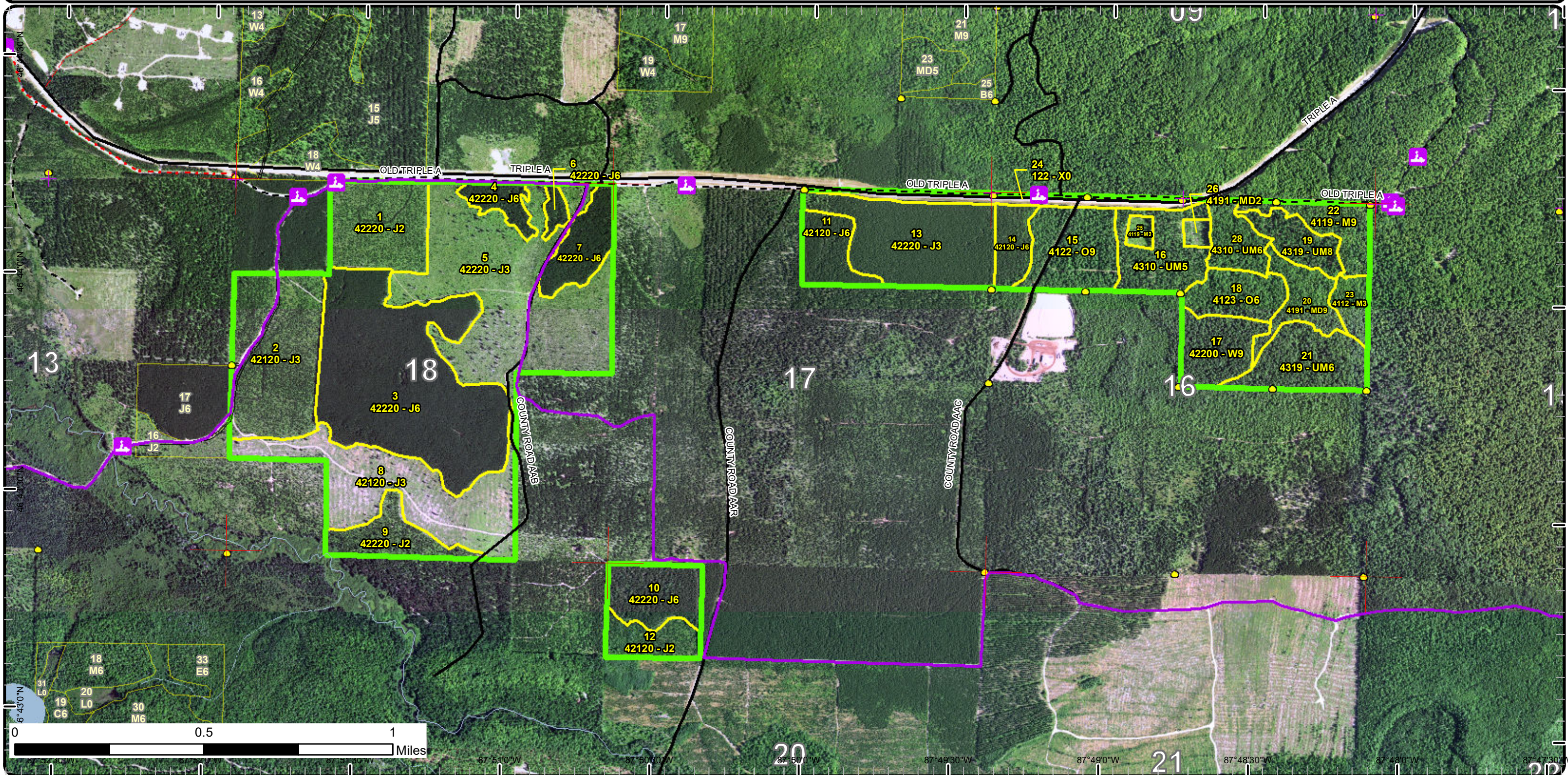


Stand Boundary Map

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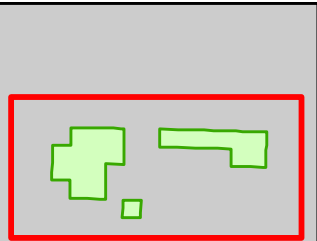


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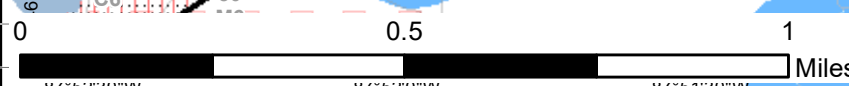
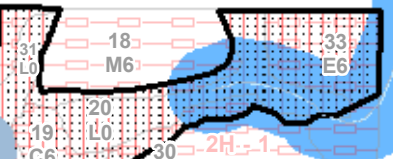
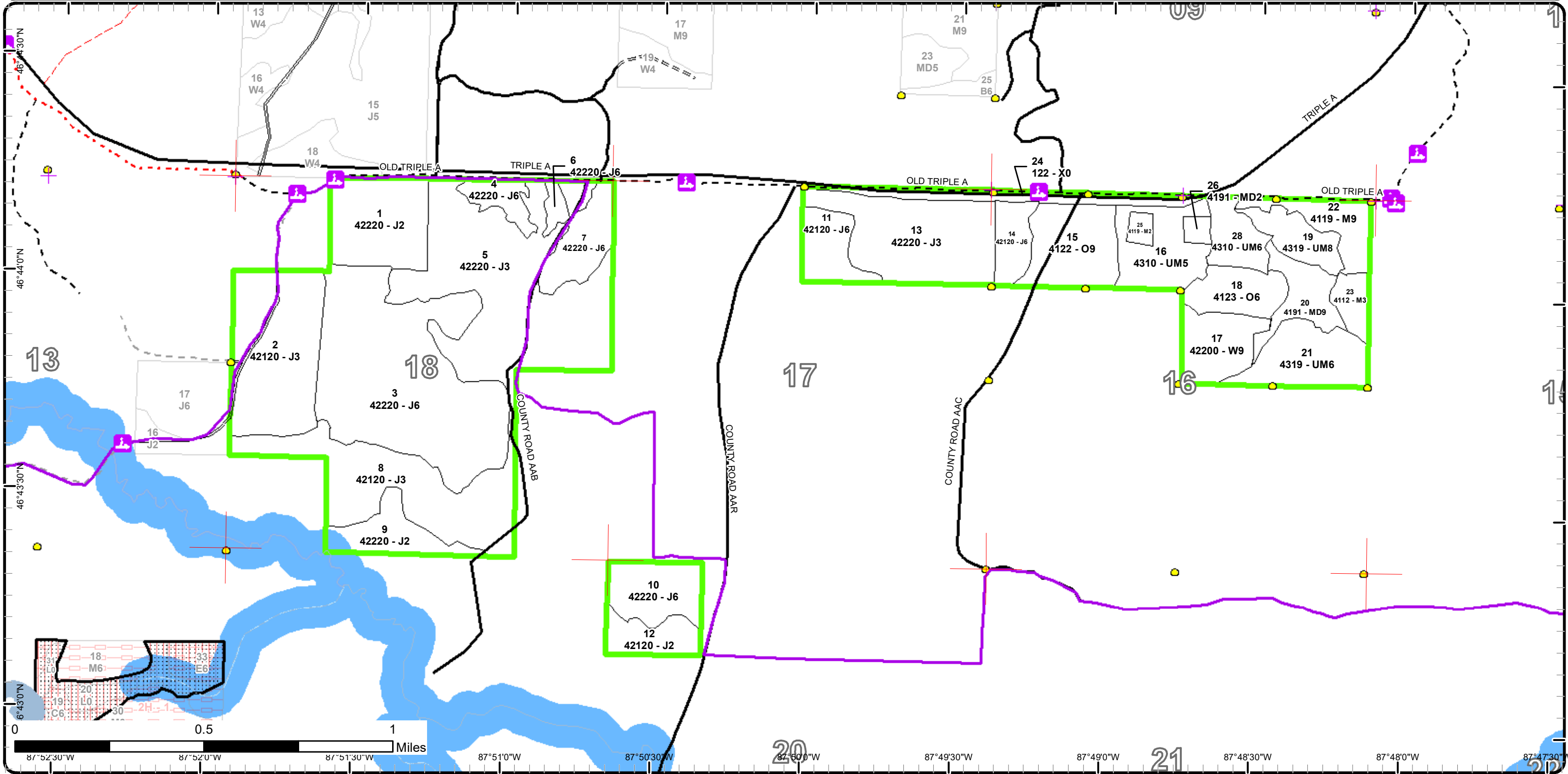


Special Conservation Areas

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- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- SCA
- Wild & Scenic Streams (USFS Lands)
- Cold Water Streams
- High Priority Trout Stream Buffer
- Other SCA (No Category Assigned)



87°52'30"W 87°52'0"W 87°51'30"W 87°51'0"W 87°50'30"W 87°50'0"W 87°49'30"W 87°49'0"W 87°48'30"W 87°48'0"W



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 206
Total Compartment Acres: 836

Commercial Harvest - 103
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
Mixed Upland Deciduous	0	0	0	0	18	0	0	0	0	18
Northern Hardwood	0	0	0	0	18	0	0	0	0	18
Upland Mixed Forest	0	0	0	0	30	15	0	0	0	45
White Pine	0	0	0	0	0	23	0	0	0	23
Total	0	0	0	0	66	38	0	0	0	103

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	103	0	0	0	0	0	0	0	0	103
Next Step	0	0	0	0	0	0	66	0	0	66
Total	103	0	0	0	0	0	66	0	0	169



Stand	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:

17	32206017-Cut	22.6	42200 - Natural White Pine	Sawtimber Well	109	111-140	Harvest	Crown Thinning	4220 - Natural White Pine	Even-Aged	No
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Prescription Cut all maple, paper birch, spruce, fir and jack pine Mark stand to increase vigor and remove competitors to oak and and white pine target
Specs: residual of 70 Sq feet.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

20	32206020-Cut	17.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	101	111-140	Harvest	Shelterwood with Retention	412 - Oak Types	Even-Aged	No
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Prescription Cut all Maple, aspen, paper birch, spruce, fir and Jack pine Mark white pine and oak where needed to reduce BA to 70 sq ft.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Red Maple, oak, aspen, white pine.
Regen:

Other Retain all Hemlock (2%) Species diversity, Seed Source
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

21	32206021-Cut	30.1	4319 - Mixed Upland Forest	Poletimber Well	101	51-80	Harvest	Shelterwood with Retention	412 - Oak Types	Even-Aged	No
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Prescription Cut all Maple, aspen, paper birch, spruce, fir and Jack pine Mark white pine and oak where needed to reduce BA to 70 sq ft. Do not harvest
Specs: any hemlock or yellow birch to provide a seed source and improve seed source.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Oak, white pine, maple, spruce, fir.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

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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
22 32206022-Cut	17.9	4119 - Mixed Northern Hardwoods	Sawtimber Well	109	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all maple, fir and spruce within stand. Mark a few maple and spruce or seed and retention. protect as much advanced regeneration as possible target Residual BA should be 20-40 SQ Ft of pine oak and maple. variance in the residual is ok, as creating gaps for oak and pine are the goals of the harvest.</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, white pine, hemlock, oak, yellow birch, white birch.</p> <p><u>Regen:</u></p> <p><u>Other</u> Favor Red Oak (12%) mast production and White Pine (10%) = black bear and seed source; Retain all Hemlock (2%) and Yellow Birch (2%)</p> <p><u>Comment:</u> Species diversity, Seed Source</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
28 3220628-cut	15.0	4310 - Pine, Oak Mix	Poletimber Well	101	111-140	Harvest	Crown Thinning	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Cut all maple, paper birch, spruce, fir and jack pine Mark stand to increase vigor and remove competitors to oak and and white pine target residual of 70 Sq feet. leave all hemlock to improve species diversity and a seed source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2021</p>										

Total Treatment 103.4
Acreage Proposed:

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
SCA	Wild and Scenic Rivers	Wild and Scenic Rivers are established under authority of the National Wild and Scenic Rivers Act, Public Law 90-542, as amended. Each Wild and Scenic River has a river specific Federal management plan, and State agencies may enter into written cooperative agreements with the administering Federal agency for the management of Wild and Scenic Rivers that are upon State-owned lands. There are 18 miles of Federal designated Wild and Scenic Rivers that are located within the State Forest.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
1	42220 - Natural Jack Pine	Sapling Medium	38.7	24	Unspecified	N/A	Harvested in 1995: TS#14-92. Trenched and seeded but attempt at artificial regeneration failed. Almost all trees are natural regeneration.																														
<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>Red Maple</td> <td>5</td> <td>Sapling</td> <td>1</td> <td>24</td> </tr> <tr> <td>Jack Pine</td> <td>95</td> <td>Sapling</td> <td>1</td> <td>24</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Sapling	1	24	Jack Pine	95	Sapling	1	24	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Serviceberry (Juneberry)</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Serviceberry (Juneberry)	Low	< 5 feet	Tall Shrub											
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2	42120 - Planted Jack Pine	Sapling Well	64.9	24	Unspecified	N/A	Harvested in 1995: TS#14-92. Trenched and direct seeded-did not take well.																														
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3	42220 - Natural Jack Pine	Poletimber Well	126.4	42	51-80	N/A	Harvested in 1978: TS#13-76A. Scarified and naturally regenerated. Well stocked small pole/large sapling stand.																														
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4	42220 - Natural Jack Pine	Poletimber Well	9.8	30	51-80	N/A	Harvested in 1976: TS#27-73A. Scarified and broadcast seeded in 1980. Small pole stand with a trace of aspen in overstory.																														
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5	42220 - Natural Jack Pine	Sapling Well	122.8	15	Immature	N/A	Harvested in 2005: TS#102-02-01. Trenched and direct seeded in 2006. Well stocked jack pine plantation.																														
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7	42220 - Natural Jack Pine	Poletimber Well	20.1	40	1-50	N/A	Harvested in 1976: TS#27-73A. Scarified and broadcast seeded in 1980.																														
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8	42120 - Planted Jack Pine	Sapling Well	71.4	5	Immature	N/A	Stand was harvested in the spring of 2015. TS # 131-12. FTP # 32-858 was written for Jack Pine planting. Site was trenched by DNR resources in 2015 and planted by Superior Forestry Services in the spring of 2016 at 1000 T/A. Planting costs were \$12396.00. First year count came in at 616 T/A.																																													
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9	42220 - Natural Jack Pine	Sapling Medium	20.3	25	Unspecified	N/A	Harvested in 1995: TS#19-92. Trenched and planted to red pine. Red pine failed but with naturally regenerated jack pine the stand is stocked. Spruce and red pine left as residual when cut.																																													
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11	42120 - Planted Jack Pine	Poletimber Well	17.0	42	51-80	N/A	Burned in 1975. Machine planted in 1978. Mix of natural regeneration in stand.																																													
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12	42120 - Planted Jack Pine	Sapling Medium	15.1	27	Unspecified	N/A	Harvested in 1995: TS#19-92. Trenched and planted to red pine. Planted red pine failed. Jack pine and aspen natural regeneration make the stand stocked. A few red/white pine and spruce-fir trees left for retention.																																													
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13	42220 - Natural Jack Pine	Sapling Well	57.6	40	1-50	N/A	Harvested in 1976: TS#27-73A. Scarified and broadcast seeded in 1980.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
14	42120 - Planted Jack Pine	Poletimber Well	12.9	42	81-110	N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	3	Sapling	3				
Red Oak	2	Pole	8				
Paper Birch	5	Pole/Sapling	7				
Jack Pine	90	Pole	8	42			
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Low	5 - 10 feet	Sapling				
Choke Cherry	Low	5 - 10 feet	Tall Shrub				
15	4122 - Oak, Pine	Sawtimber Well	32.6	66	51-80	N/A	Partially cut in 1996: TS#21-92-01. Two storied stand.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Oak	70	Log/Pole	12	66			
White Pine	28	Log/Pole	13				
Red Pine	2	Log	14				
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	High	>20 feet	Sapling				
Red Oak	Medium	>20 feet	Sapling				
Balsam Fir	High	>20 feet	Sapling				
White Spruce	Low	5 - 10 feet	Sapling				
White Pine	Low	5 - 10 feet	Pole				
16	4310 - Pine, Oak Mix	Poletimber Medium	27.2	66	81-110	N/A	Stand was cut in the summer of 2014. TS # 101-12. More white pine and oak should of been removed from the stand during harvest. Two small clear cuts were done within the stand, too small to delineate. During the next inventory the examiner should consider either clear cutting or shelterwood cutting this stand to promote regeneration.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Oak	48	Pole/Log	9				
White Pine	50	Log	13	66			
Hemlock	2	Log	10				
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Low	5 - 10 feet	Sapling				
Red Oak	Medium	5 - 10 feet	Sapling				
Balsam Fir	Low	5 - 10 feet	Sapling				
White Pine	Medium	5 - 10 feet	Sapling				
17	42200 - Natural White Pine	Sawtimber Well	22.6	109	111-140	N/A	Harvested in 1966 using a 12 inch stump diameter. Some gaps in stand.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	10	Pole	8				
Red Oak	15	Pole/Log	10				
Paper Birch	4	Pole	9				
White Pine	65	Log	16	109			
Red Pine	2	Log	14				
Balsam Fir	4	Pole/Sapling	7				
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Medium	10 - 20 feet	Sapling				
Red Oak	Medium	10 - 20 feet	Sapling				
Balsam Fir	Medium	10 - 20 feet	Sapling				
Black Spruce	Low	5 - 10 feet	Sapling				
18	4123 - Red Oak	Poletimber Well	19.2	66	81-110	N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	6	Pole	7				
Red Oak	60	Log/Pole	10	66			
Paper Birch	15	Pole	8				
White Spruce	2	Pole	8				
White Pine	15	Log	14				
Jack Pine	2	Pole	9				
Sub-Canopy Species	Density	Avg. Height	Size				
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Balsam Fir	Medium	5 - 10 feet	Sapling				
White Pine	Low	5 - 10 feet	Sapling				



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19	4319 - Mixed Upland Forest	Sawtimber Medium	15.4	103	51-80	N/A	Stand was cut in the summer of 2014. TS# 101-12.																																																																						
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20	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	17.8	101	111-140	N/A	Very low quality hardwoods. White birch inclusion in the south side.																																																																						
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21	4319 - Mixed Upland Forest	Poletimber Well	30.0	101	51-80	N/A	Harvested in 1966 using a 12 inch stump diameter. Poor quality stand.																																																																						
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22	4119 - Mixed Northern Hardwoods	Sawtimber Well	17.9	109	81-110	N/A	Stand was selectively managed in the summer of 2014. TS# 101-12. It was noticed during harvest that a fair amount of the maple had top dieback issues. Stand should be monitored before the next inventory cycle to see if the dieback get's worse. If so, TMS might consider a final harvest.																																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23 4112 - Maple, Beech, Cherry Association Sapling Well 9.0 54 1-50 N/A Harvested in 1966. Large sapling/small pole stand of poor quality hardwoods. Small pockets and scattered individuals of mature trees mostly hemlock. Trace of red oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	20	Sapling	3		Red Maple	Medium	5 - 10 feet	Sapling
Red Maple	60	Sapling/Pole	4	54	Balsam Fir	Medium	5 - 10 feet	Sapling
Yellow Birch	2	Sapling/Pole	4		Hemlock	Low	5 - 10 feet	Sapling
Paper Birch	2	Sapling/Pole	4					
Balsam Fir	2	Sapling	4					
Hemlock	4	Sapling/Pole	4					
Pin Cherry	10	Sapling	4					

24 122 - Road/Parking Lot Nonstocked 17.4 0 Unspecified No County road AAA

25 4119 - Mixed Northern Hardwoods Sapling Medium 3.4 7 Immature N/A Stand was cut in the summer of 2014. TS # 101-12.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	25	Sapling	1	2
Balsam Fir	12	Sapling	2	
Red Maple	63	Sapling	1	7

26 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 3.2 6 81-110 N/A Stand was cut in the summer of 2014. TS # 101-12.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	25	Sapling	1	
Red Maple	50	Sapling	1	6
Balsam Fir	25	Sapling	1	

28 4310 - Pine, Oak Mix Poletimber Well 15.0 101 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	7		Red Maple	High	5 - 10 feet	Sapling
Red Oak	36	Log/Pole	16	101	Red Oak	Medium	5 - 10 feet	Sapling
Paper Birch	2	Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
White Spruce	2	Pole	8		White Pine	Low	5 - 10 feet	Sapling
White Pine	36	Log	14					
Balsam Fir	4	Pole	9					
Red Pine	2	Log/Pole	14					
Hemlock	3	Log	10					