



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32047

Entry Year 2022

Acreage: 946

County Marquette

Management Area: Chain Lakes Moraine

Revision Date: 2020-08-03

Stand Examiner: Rick Hill

Legal Description:

T44N R25W Section(s) 19,30,31

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:

Terrain is relatively level to lightly sloping with soils ranging from mucks in the bog areas to excessively drained sands in the southeast portion of the compartment. Major soil associations include the Sagola-Rubicon Complex, Emmet-Escanaba, Paquin-Finch sand, and Rubicon sand.

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

This compartment is surrounded by additional State lands except for the extreme southwestern corner where the adjacent ownership is in private holdings.

Unique Natural Features:

under review.

Archeological, Historical, and Cultural Features:

under review.

Special Management Designations or Considerations:

This compartment contains an RMZ for Wilson Creek.

Watershed and Fisheries Considerations:

Wilson and Bobs creek flow through the compartment, Forestry treatments close by will buffer the streams to protect fisheries values.

Wildlife Habitat Considerations:

Compartment 047 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

Surface sediments consist primarily of glacial outwash sand and gravel and postglacial alluvium, and minor amounts of medium-textured glacial till and peat and muck. There is insufficient data to determine the glacial drift thickness. The Cambrian Trempealeau Formation subcrops below the glacial drift. The Trempealeau could be used for stone. Gravel pits are located to the west of the compartment, and there may be some potential in west half of Section 19. Abandoned iron mines are located five miles to the north, but this compartment has never been leased. There is no economic oil and gas production in the UP.

Vehicle Access:

Vehicle access is excellent from the east via County Road 557. In addition, there are several 2-tracks leading into the compartment.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

This compartment features a snowmobile trail as well as an ORV route. There are few opportunities for future development of recreational facilities in the future. This area also hosts low key recreation including hunting fishing and berry picking.

Fire Protection:

There is a moderate risk of wildfire in this compartment but the excellent access should make suppression relatively easy.

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

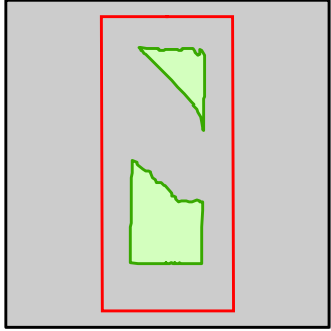


Age Class

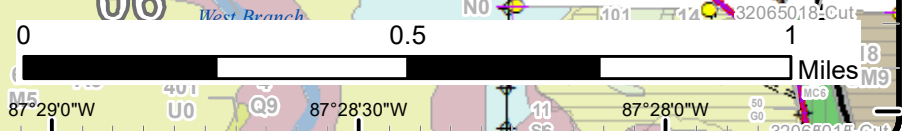
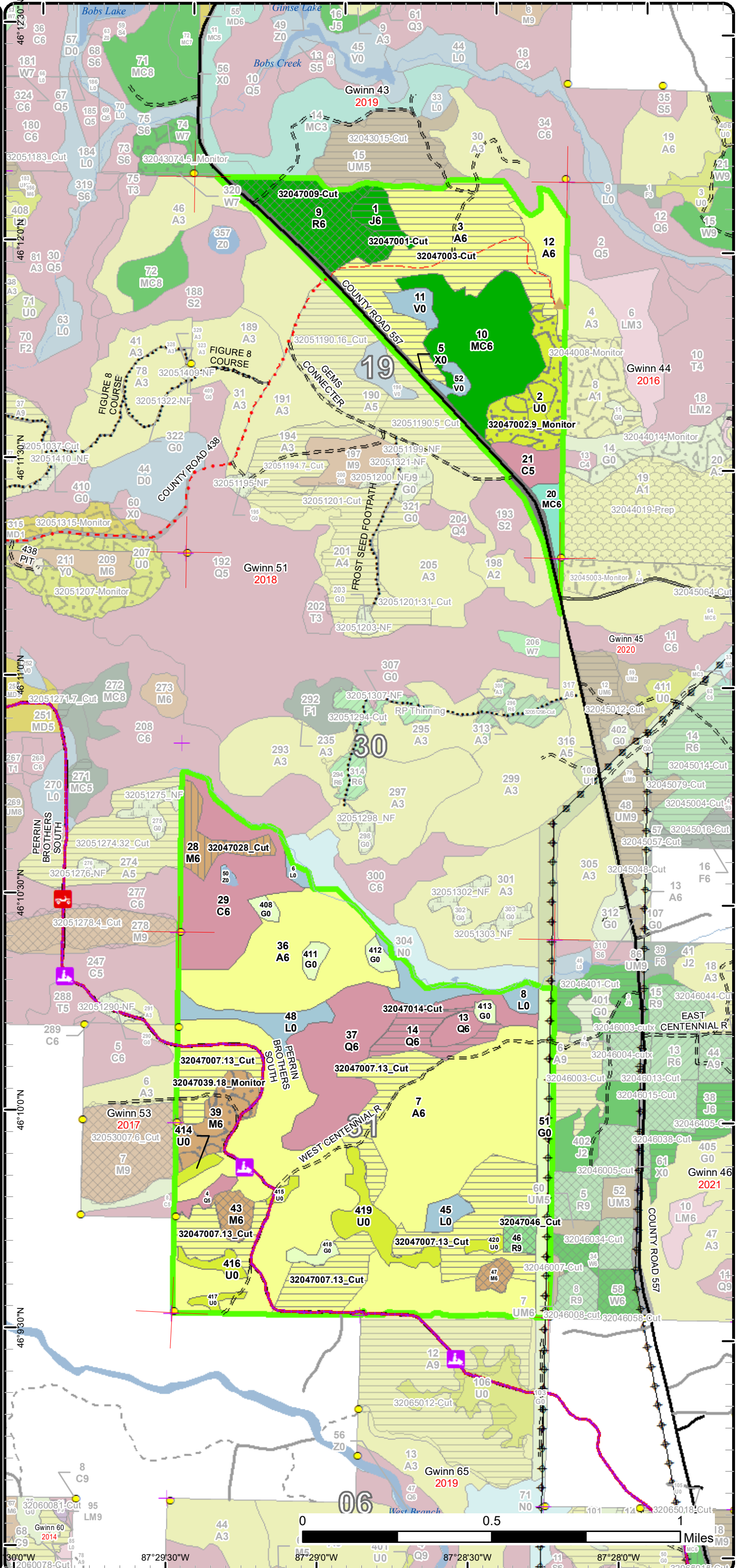
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	81	342	0	80	0	0	0	0	0	0	0	0	0	0	503
Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Cedar	0	0	0	0	0	0	0	0	9	50	0	0	0	0	0	0	0	0	59
Herbaceous Openland	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Jack Pine	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Low-Density Trees	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Lowland Conifers	0	0	0	0	0	0	0	0	4	0	0	72	0	0	0	0	0	0	76
Lowland Shrub	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Natural Mixed Pines	0	0	0	0	0	0	0	55	0	0	0	0	0	0	0	0	0	0	55
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	31	44
Red Pine	0	0	0	0	0	0	0	34	0	5	0	0	0	0	0	0	0	0	39
Upland Conifers	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Urban	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	156	0	0	6	81	342	0	177	9	59	0	14	72	0	0	0	0	31	945

Cover Type & Treatments Map

Compartment: 47
 T44N, R25W, Sec. 19, 30, 31
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2022
 Acres: 946 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/4/2020
 Map Phase: Review

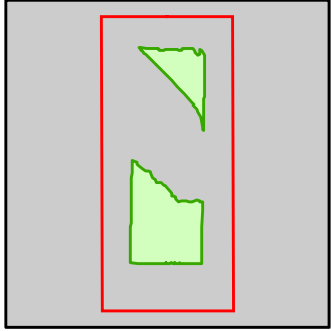


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Powerline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

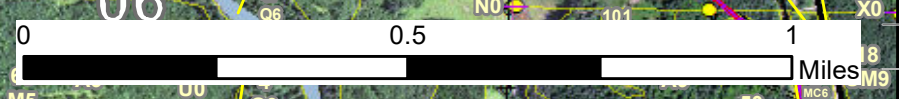
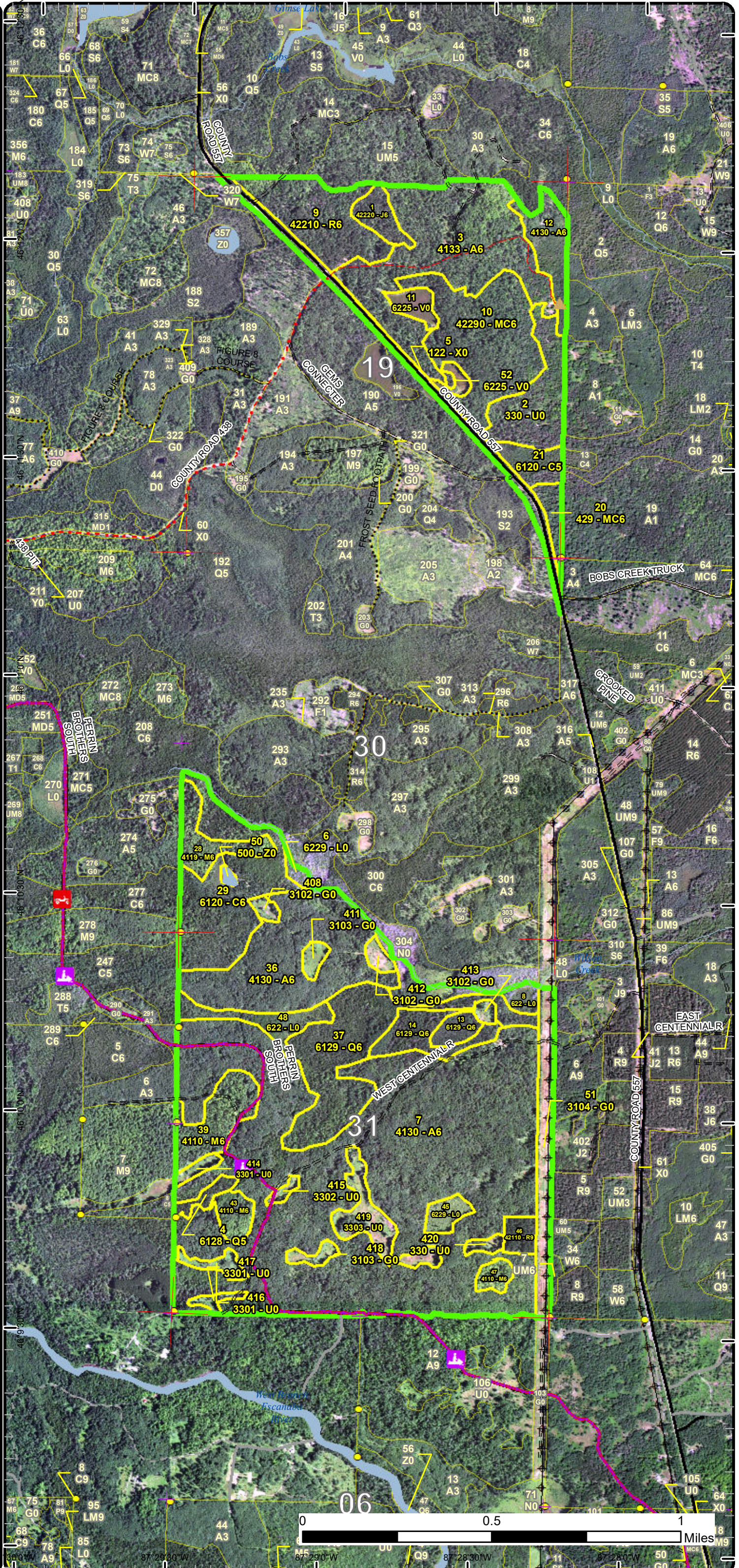


Stand Boundary Map

Compartment: 47
 T44N, R25W, Sec. 19, 30, 31
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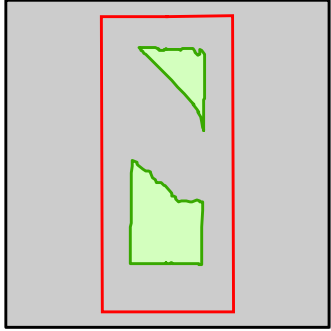


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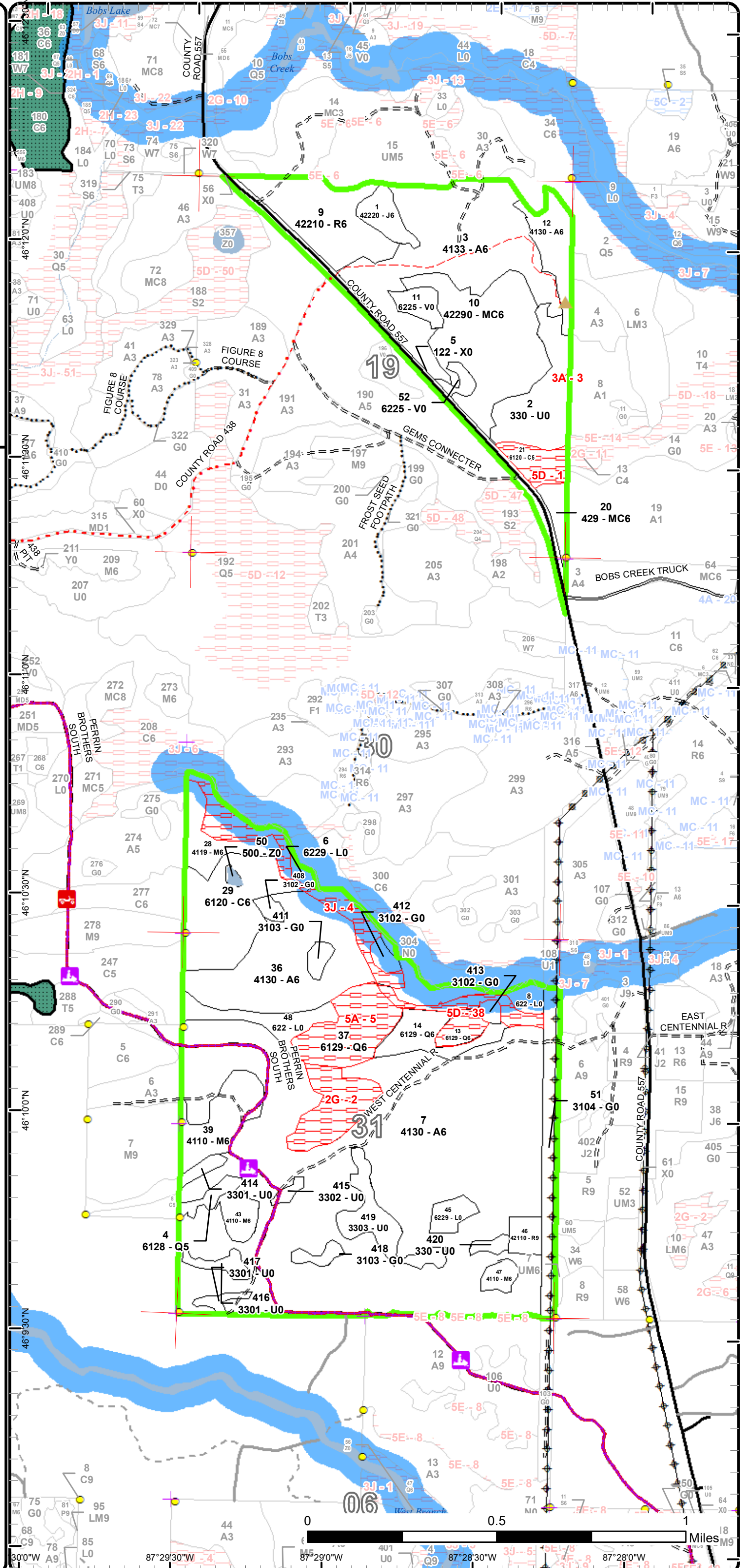


Special Conservation Areas

Compartment: 47
 T44N, R25W, Sec. 19, 30, 31
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2022
 Acres: 946 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/4/2020
 Map Phase: Review



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- Counties
- DNR - Secondary Forest Road
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- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Powerline
- Compartment Boundary
- Unavailable
- 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)
- 5A: Not able to obtain desirable regeneration
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Habitat Corridor





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 47

Total Compartment Acres: 946

Commercial Harvest - 281
 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
Aspen	194	0	0	0	0	0	0	0	0	194
Jack Pine	8	0	0	0	0	0	0	0	0	8
Lowland Conifers	15	0	0	0	0	0	0	0	0	15
Northern Hardwood	0	11	0	0	14	0	0	0	0	25
Red Pine	0	40	0	0	0	0	0	0	0	40
Total	217	51	0	0	14	0	0	0	0	281

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	281	0	0	0	0	0	44	0	0	325
Next Step	0	8	0	8	0	0	289	0	0	306
Total	281	8	0	8	0	0	333	0	0	631



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

Proposed Treatments:

1	32047001-Cut	8.2	42220 - Natural Jack Pine	Poletimber Well	67	111-140	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Cut all trees leaving only red and white pine. use a 2 inch spec and stump height spec.

Specs:

Next Step SitePrep, Scarification; Seeding, Machine Seed; Monitoring, Direct Seeding; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Jack Pine, aspen, white pine, red pine

Regen:

Other This stand was purchased with State Game Funds.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

3	32047003-Cut	80.1	4133 - Aspen, Mixed Pine	Poletimber Well	67	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Cut all trees leaving only red pine, white pine, and oak if present. Retention should include maple, big tooth aspen, birch and other underrepresented species.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, jack pine, red maple, spruce, fir, red pine, white pine, paper birch

Regen:

Other Retention should also include some mature big tooth aspen-northern goshawk- State Game Funds.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

7	32047007.13_Cut	113.8	4130 - Aspen	Poletimber Well	43	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Remove all trees except leave white pine and red pine. Retention should include some bigtooth aspen (for Northern Goshawk) and other unrepresented species such as cherry. (State Game Fund). Retention will be left as islands wothen treatments were underrepersnted species are present.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, spruce, fir, mixed hardwood, mixed pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 1 /28/2020



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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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9	32047009-Cut	34.2	42210 - Natural Red Pine	Poletimber Well	67	111-140	Harvest	Group Selection	4221 - Natural Red Pine	Even-Aged	No
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Prescription Cut all aspen, jack pine and fir. Mark all other trees for removal with a target residual BA of 70-90 SF. Remove trees of poor form, suppressed trees, make gaps in areas of regeneration, improve spacing, improve diversity through tree selection. Favor red pine, white pine and spruce when marking. White pine will be favored to provide black bear habitat.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, jack pine, spruce, fir, red maple, white pine, and red pine.

Regen:

Other This stand was purchased with State Game Funds.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

14	32047014-Cut	14.5	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	114	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Cut all trees leaving only red pine, white pine, cedar and hemlock. use a 2 inch spec to reduce forest health issues due to SBW and dwarf mistletoe.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce, fir, tamarack, aspen, maple

Regen:

Other This portion of the stand is not as heavy to cedar and should be fully operable leaving all the cedar on site. Areas of over 80 SQ feet of Cedar should be excluded to prevent root damage. This stand was purchased with State Game Funds.

Site Condition

Proposed Start Date: 6 /24/2020

28	32047028_Cut	13.7	4119 - Mixed Northern Hardwoods	Poletimber Well	102	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Even-Aged	No
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Prescription Cut all maple, aspen, fir, and spruce. time harvest with adjacent stand in C51. Hemlock, yellow birch, white cedar, cherry and basswood will remain within the stand.

Leave a retention area within the river buffer.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, aspen, fir, spruce.

Regen:

Other This stand was purchased with State Game Funds.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
39	32047039.18_Monitor	19.5	4110 - Sugar Maple Association	Poletimber Well	83	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Site has exclosures check regen in them and report results to TMS</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, basswood , other hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand was purchased with State Game Funds.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
43	32047043_Cut	6.9	4110 - Sugar Maple Association	Poletimber Well	83	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Light selection harvest reducing ba to 80 following Compleat Marker guidelines. Mark to increase diversity. Protect any hemlock and white pine present. also do not cut any basswood to increase diversity. (State Game Fund).</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> Hard maple, basswood</p> <p><u>Regen:</u></p> <p><u>Other</u> Retain Basswood (3%) – Cavity nesters, pollinators and seed production for small mammals. - State Game Funds.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
46	32047046_Cut	5.4	42110 - Planted Red Pine	Sawtimber Well	81	111-140	Harvest	Group Selection	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Mark trees for removal with a target residual BA of 70-90 SF. Remove trees of poor form, suppressed trees, make gaps in areas of regeneration, improve spacing, improve diversity though tree selection. Favor red maple, spruce and fir when marking. White pine will be retained to provide black bear habitat.</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> Mixed upland conifer, mixed upland conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand was purchased with State Game Funds.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
47	32047047_Cut	4.1	4110 - Sugar Maple Association	Poletimber Well	79	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Light selection harvest reducing ba to 80 following Compleat Marker guidelines. Mark to increase diversity. Protect any hemlock and white pine present. (State Game Fund).</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> Mixed Northern Hardwood</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>											



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:

2	32047002.9_M onitor	24.6	330 - Low-Density Trees	Nonstocked			Monitoring	Natural Regen (Intermediate)	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Within 5 years, monitor for adequate stocking of advanced regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> White pine, red pine, aspen, red oak, white spruce</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

Total Treatment 325
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 47
Year of Entry: 2022

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

2G 3A 3J 5A 5D

503	494	0	10	Aspen	2G	3A	3J	5A	5D
9	9	0	0	Bog					
60	37	0	22	Cedar			13		9
36	36	0	0	Herbaceous Openland					
8	8	0	0	Jack Pine					
56	56	0	0	Low-Density Trees		0			
76	18	0	58	Lowland Conifers	20		8	25	6
33	33	0	0	Lowland Shrub					
55	55	0	0	Natural Mixed Pines					
44	44	0	0	Northern Hardwood					
40	40	0	0	Red Pine					
6	6	0	0	Upland Conifers					
20	20	0	0	Urban					
1	1	0	0	Water					
946	857		89	Total Forested Acres	20	0	30	25	15
	91%		9%	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	5D: Unproductive Forest Land	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 47
Year of Entry: 2022

3	Unavailable	3A: Conservation Values incompatible with harvest at this time	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Inactive stick nest, removed from surrounding harvest (32-016-16-1) with 1 chain radius, red paint buffer.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5A: Not able to obtain desirable regeneration	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	5D: Unproductive Forest Land	6	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	42220 - Natural Jack Pine	Poletimber Well	8.2	67	111-140	N/A	Patch of natural jack pine with some spruce, aspen and red pine mixed in.																																																									
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2	330 - Low-Density Trees	Nonstocked	26.9			413 - Aspen	Stand harvested under 32-016-16 Bob's West SBW.																																																									
3	4133 - Aspen, Mixed Pine	Poletimber Well	79.9	67	111-140	N/A	Aspen mixed with spruce, fir, maple and pine. Dry site, aspen is mature.																																																									
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4	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	3.9	81	51-80	N/A	Small cedar stand with associated swamp conifers, ie black spruce, fir.																																																									
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5	122 - Road/Parking Lot	Nonstocked	19.9		Unspecified	No	County road 557 R.O.W.																																																									
6	6229 - Mixed lowland shrub	Nonstocked	2.3		Unspecified	No	Non stocked former L and cedar types flooded out from beaver activity in Wilson Creek. Numerous standing dead cedar.																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
7	4130 - Aspen	Poletimber Well	342.1	43	51-80	N/A	Large aspen stand varies some in associates.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		5	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
White Spruce		5	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
White Pine		2	Log	14					
Black Ash		3	Pole	6					
Red Maple		5	Pole	8					
Bigtooth Aspen		5	Pole	8					
Red Pine		2	Pole	8					
Quaking Aspen		73	Pole	8	43				
8	622 - Lowland Shrub	Nonstocked	13.1		Unspecified	No	Non stocked former L and cedar types flooded out from beaver activity in Wilson Creek. Numerous standing dead cedar.		
9	42210 - Natural Red Pine	Poletimber Well	34.2	67	111-140	N/A	Natural red pine mixed with aspen, red maple, white pine. Dry Mesic site, BA varies some but site would benefit from a harvest .		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		15	Pole	8	67	Red Maple	Medium	5 - 10 feet	Sapling
Red Maple		2	Pole	8		White Pine	Medium	5 - 10 feet	Sapling
Quaking Aspen		8	Pole	7					
Jack Pine		6	Pole	8					
White Spruce		4	Pole	7					
Red Pine		65	Log/Pole	12	67				
10	42290 - Natural Mixed Pine	Poletimber Well	54.6	67	81-110	N/A	Aspen mixed with spruce, fir, maple and pine. Dry site, aspen is mature.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		57	Pole	8	67	Red Maple	High	5 - 10 feet	Sapling
Red Maple		5	Pole	8		White Pine	Medium	5 - 10 feet	Sapling
Quaking Aspen		8	Pole	8	67	Balsam Fir	Medium	5 - 10 feet	Sapling
Jack Pine		4	Pole	8					
Balsam Fir		2	Pole	7					
Red Pine		10	Pole	8					
White Spruce		6	Pole	8					
Bigtooth Aspen		8	Pole	8					
11	6225 - Bog	Nonstocked	5.8		Unspecified	No			
12	4130 - Aspen	Poletimber Well	15.6	34	Immature	N/A	Cut in 1986 # 015-83-1. Aspen saplings 25-40' tall just starting to move into the pole class, over fir saplings.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		85	Pole	6	34				
Balsam Fir		15	Pole	6	34				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
13	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	5.5	114	51-80	N/A	Low wet mixed swamp conifers with black spruce predominating.																																																					
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14	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	14.4	114	51-80	N/A	Low wet mixed swamp conifers with black spruce predominating.																																																					
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20	429 - Mixed Upland Conifers	Poletimber Well	5.9	28	Immature	N/A	Treated under contract # 14-92-01 with all conifers retained. Stand is currently a mix of white pine, fir, and aspen.																																																					
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21	6120 - Lowland Cedar	Poletimber Medium	9.4	77		N/A																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
28	4119 - Mixed Northern Hardwoods	Poletimber Well	13.7	102	81-110	N/A	Low quality red maple poles with hemlock, upland cedar, and super canopy white spruce. Dense fir understory 5'-10' tall. Remote, no access.																																										
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29	6120 - Lowland Cedar	Poletimber Well	50.1	80	81-110	N/A	Cedar poles with associated swamp conifers. Contains the headwaters for Wilson Creek.																																										
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36	4130 - Aspen	Poletimber Well	65.6	36	Unspecified	N/A	CUT 1984 PERMIT NO. 25-82-1. 2020- 5"-8" aspen over small fir. The aspen is 25-30' tall just transitioning to a pole stand.																																										
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37	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	52.2	114	51-80	N/A	Low wet mixed swamp conifers with black spruce predominating.																																										
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39	4110 - Sugar Maple Association	Poletimber Well	19.5	83	51-80	N/A	SELECT CUT IN 1984-2013 Site quality is also high but there is a lack of regeneration from the previous cutting. Sale cut by Gillis fall and winter 2012-2013 under contract # 012-12-02. 9 exclosures were set up in the larger gaps summer of 2013 by field staff, unit manager and tms.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
43	4110 - Sugar Maple Association	Poletimber Well	6.9	83	111-140	N/A	Good quality sugar maple with scattered basswood , occasional red maple and upland cedar. A few twins and triplet stems. Could hold this stand for 10 years and cut with stand 41, or treat this entry with stand 39. Understory composed of a light stocking of 3-4" dbh hard maple saplings. There is a lack of regeneration from the previous cutting.																												
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45	6229 - Mixed lowland shrub	Nonstocked	5.3		Unspecified	No	Small pocket of willow.																												
46	42110 - Planted Red Pine	Sawtimber Well	5.4	81	111-140	N/A	THINNED IN 77 OR 78 2010-Predominantly a red pine sawtimber stand with heavy brush in the understory.																												
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47	4110 - Sugar Maple Association	Poletimber Well	4.1	79	81-110	N/A	Small island of fair quality hardwoods surrounded by aspen poles.																												
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48	622 - Lowland Shrub	Nonstocked	12.5			No																													
50	500 - Water	Nonstocked	1.0		Unspecified	No	OPIC - FMD: Small bog pond in stand 29.																												
51	3104 - Degraded	Nonstocked	22.8		Unspecified	No	Powerline R.O.W.																												
52	6225 - Bog	Nonstocked	3.0		Unspecified	No																													
408	3102 - Grass	Nonstocked	2.3		Unspecified	Managed Opening																													
411	3103 - Rubus-Fern	Nonstocked	3.1		Unspecified	Managed Opening																													
412	3102 - Grass	Nonstocked	2.9		Unspecified	Managed Opening																													
413	3102 - Grass	Nonstocked	2.0		Unspecified	No																													
414	3301 - Low Density Deciduous Trees	Nonstocked	2.8		Unspecified	No																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
415	3302 - Low Density Conifer Trees	Nonstocked	1.9		Unspecified	No	
416	3301 - Low Density Deciduous Trees	Nonstocked	4.2		Unspecified	No	
417	3301 - Low Density Deciduous Trees	Nonstocked	2.5		Unspecified	No	
418	3103 - Rubus-Fern	Nonstocked	3.1		Unspecified	No	West end seeded to rye in 1979.
419	3303 - Mixed Low Density Trees	Nonstocked	15.6		Unspecified	No	
420	330 - Low-Density Trees	Nonstocked	2.3		Unspecified	No	