



# Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32228

Entry Year 2018

Acreage: 576

County Marquette

Management Area: Voelker Plains

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**Revision Date:** 2016-08-09

**Stand Examiner:** Rick Hill

**Legal Description:**

T46N-R28W, sections 22 and 27

**Identified Planning Goals:**

Vegetative management in the Voelker 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.

**Soil and topography:**

Glacial and outwash plains form topography that is nearly level to gently rolling. Soils are coarse sands or organics in drainage way bottomlands.

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

This compartment is bordered by small non-industrial private ownerships. Land use is primarily for forest production, passive recreation, and residential.

**Unique Natural Features:**

The Escanaba River flows through section 27. Several other small streams also occur over this land.

**Archeological, Historical, and Cultural Features:**

There are no known sites in this compartment.

**Special Management Designations or Considerations:**

None known at this time.

**Watershed and Fisheries Considerations:**

This compartment contains the West Branch of the Escanaba River which is a Type 1 trout stream greater than 50' width. In addition, this compartment contains Rocky Creek and several unnamed tributaries which are all designated Type 1 trout streams less than 50' width which serve as tributaries to the West Branch of the Escanaba River. A 300' buffer is recommended for Rocky Creek and unnamed tributaries in riparian areas adjacent to stands which include Aspen. For all other riparian areas, Best Management Practices should be followed to reduce erosion into waterbodies.

**Wildlife Habitat Considerations:**

Compartment 228 is found within the Voelker Plains Management Area; on an Outwash Plain in central Marquette County. The dominant Natural Communities are dry northern forests and dry mesic northern forests. Wildlife considerations in the Voelker Plains management area consist of: managing jack pine habitat with strategies that more closely mimic natural fire disturbance regimes, and increasing stand size and striving to accommodate many species associated with xeric forest habitat is desirable. Wildlife management issues in the management area are: early successional forest conditions (associated with alder, riparian zones, or forested wetlands), mast (hard and soft); habitat fragmentation, early successional forest; and large open land complexes.

The following have been identified as featured species for Voelker Plains Management Area: American woodcock, beaver, black bear, and Kirtland's warbler.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 100 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as a dimension stone. A gravel pit is located in Section 34 and there should be potential. The abandoned Republic iron mine is located eight miles to the northwest. This area has not been leased previously for metallic exploration, but active leases are located in Section 21 to the west. There is no economic oil and gas production in the UP.

**Vehicle Access:**

There is good access to the compartment via Co. Rd 581 and other seasonal and department roads.

**Survey Needs:**

There may be some surveys needed for timber sale preparation these will be submitted after preview.

**Recreational Facilities and Opportunities:**

There is no developed recreation in this compartment. The heaviest public use is for hunting and trapping and other passive recreation.

**Fire Protection:**

This compartment is within the 581 Zone dispatch area. Most of the compartment is jack pine with homes and camps on adjacent lands making wild land urban interface a major issue here. This area is relatively close to the Ishpeming office making response times faster.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

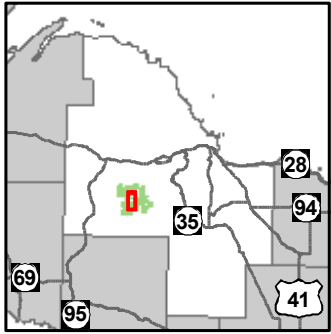
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

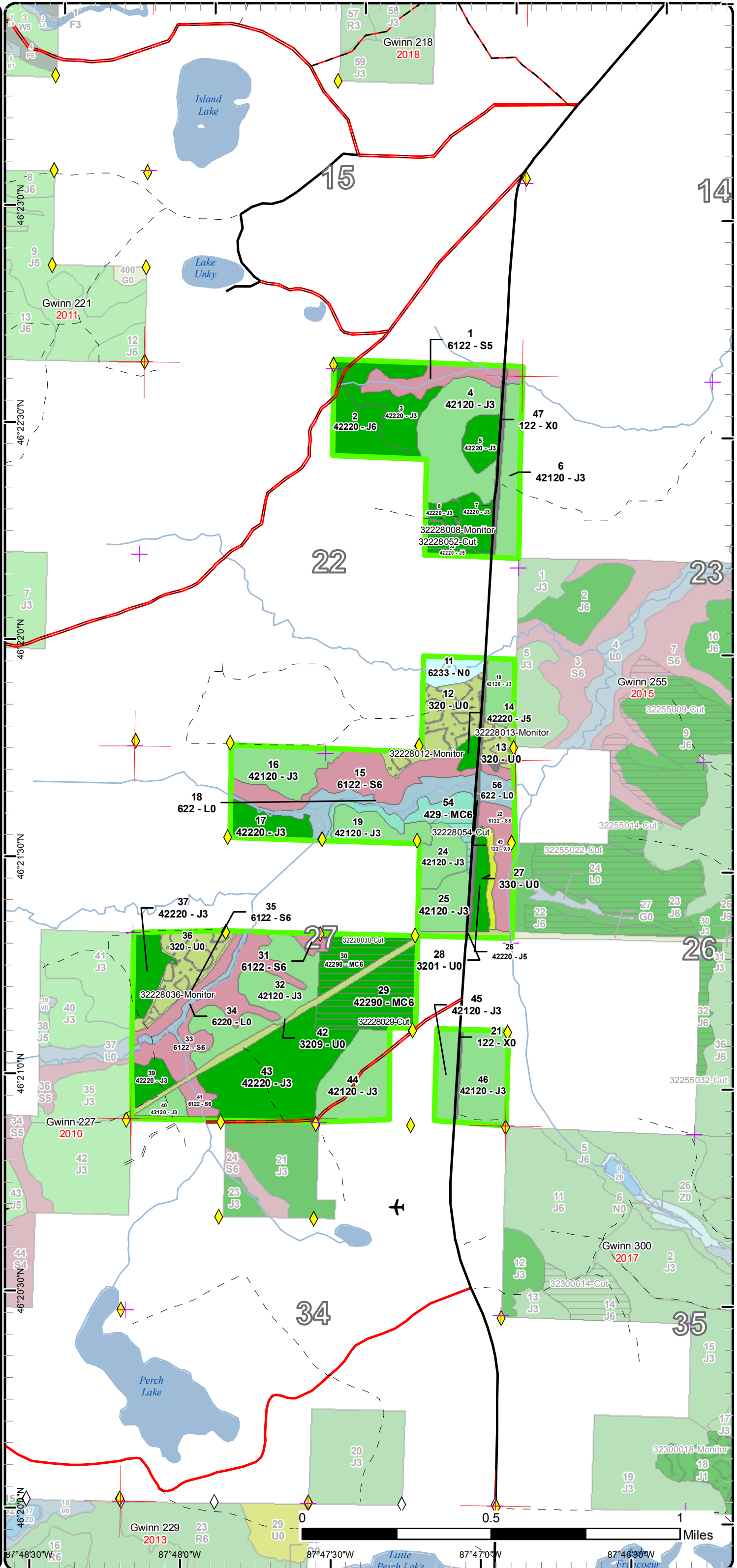
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 228  
 T46N, R28W, Sec. 22, 27, 34  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Voelker Plains  
 YOE: 2018  
 Acres: 576.3 GIS Calculated  
 Examiner: Rick Hill  
 Map Revised: 2/8/2017  
 Map Phase: Post-Review



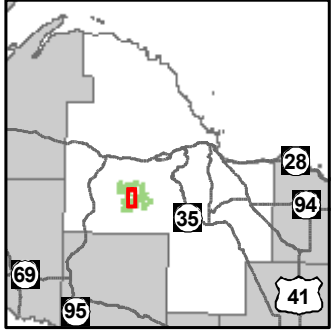
- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- ✈ Airport
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Regeneration Survey
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes



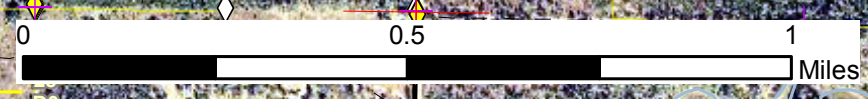
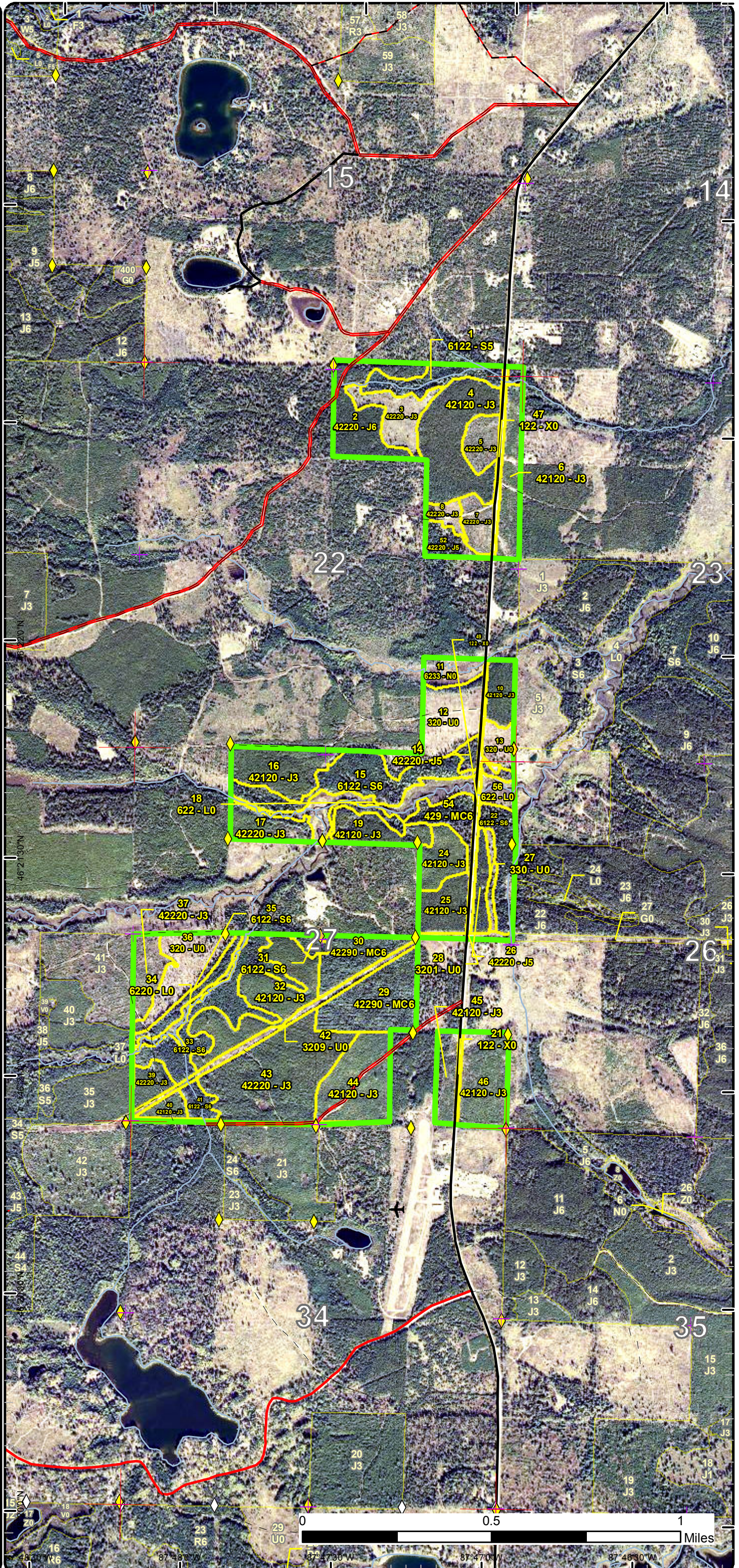
87°48'30"W 87°48'0"W 87°47'30"W 87°47'0"W 87°46'30"W

# Stand Boundary Map

Compartment: 228  
 T46N, R28W, Sec. 22, 27, 34  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Voelker Plains  
 YOE: 2018  
 Acres: 576.3 GIS Calculated  
 Examiner: Rick Hill  
 Map Revised: 2/8/2017  
 Map Phase: Post-Review



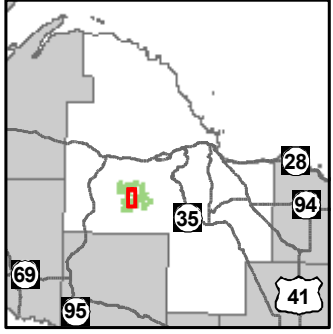
- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- ✈ Airport
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Rivers
- Compartment Boundary
- Stand Boundaries
- 421 - Planted Pines
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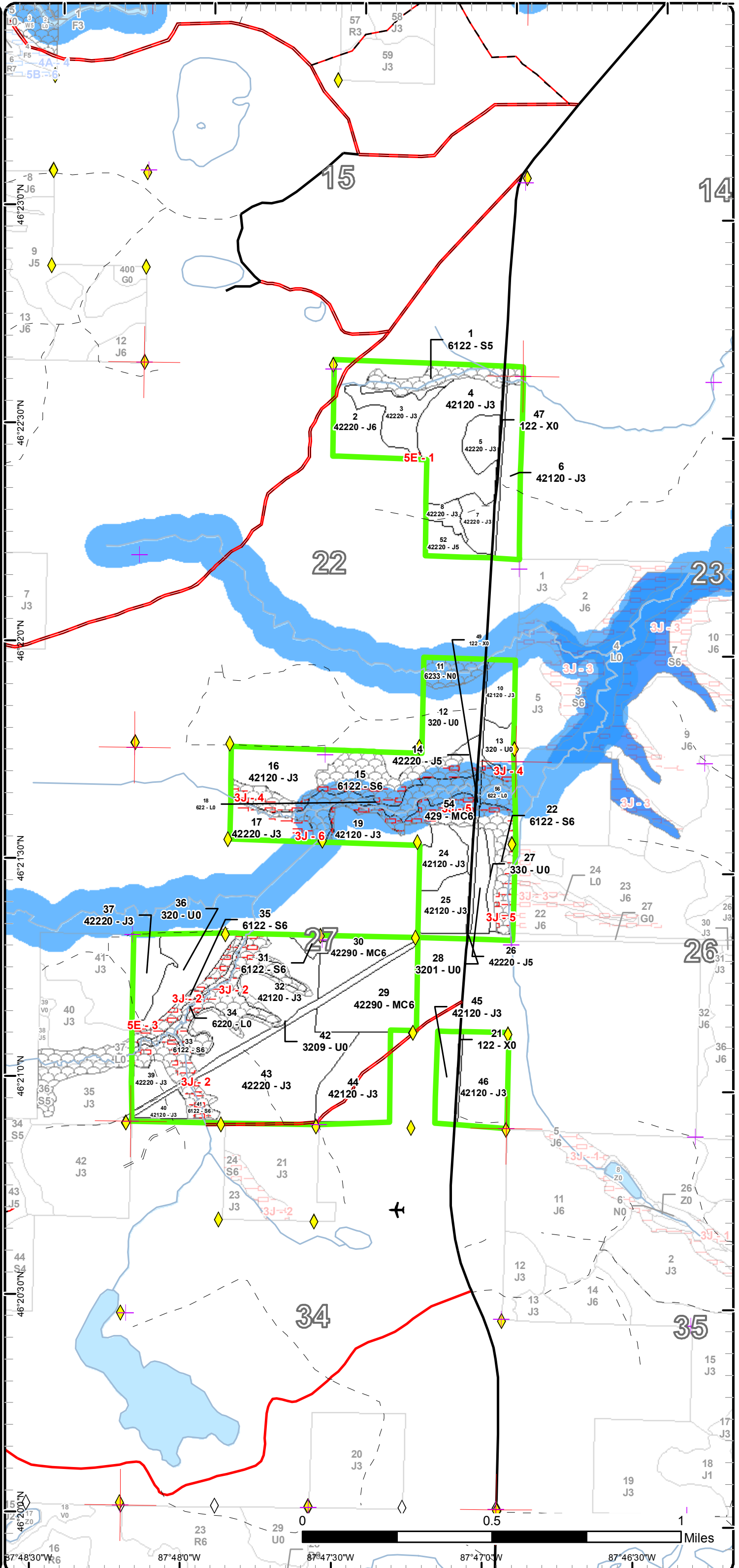
87°48'00" W
87°47'30" W
87°47'00" W
87°46'30" W

# Special Conservation Areas & Site Conditions Map

Compartment: 228  
 T46N, R28W, Sec. 22, 27, 34  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Voelker Plains  
 YOE: 2018  
 Acres: 576.3 GIS Calculated  
 Examiner: Rick Hill  
 Map Revised: 2/8/2017  
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- ✈ Airport
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Rivers
- Compartment Boundary
- Unavailable
- 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
- Riparian Area



0 0.5 1 Miles

46°23'0"N 46°22'30"N 46°22'0"N 46°21'30"N 46°21'0"N 46°20'30"N 46°20'0"N  
 87°48'30"W 87°48'00"W 87°47'30"W 87°47'00"W 87°46'30"W

# Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit  
Rick Hill : Examiner

Compartment 228 Year of Entry 2018



## 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	16	148	134	3	27	6	0	0	0	0	0	0	0	0	0	0	0	334
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Shrub	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Lowland Spruce/Fir	0	0	0	0	0	0	0	12	13	9	0	0	0	0	0	0	0	56	90
Marsh	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Natural Mixed Pines	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Upland Conifers	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	12
Upland Shrub	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
<b>Total</b>	<b>101</b>	<b>16</b>	<b>148</b>	<b>134</b>	<b>41</b>	<b>27</b>	<b>6</b>	<b>24</b>	<b>13</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>56</b>	<b>575</b>



## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 228

Total Compartment Acres: 576

Commercial Harvest - 41  
 Harvests with Site Condition - 6  
 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	6	0	0	0	0	0	0	0	0	6
Natural Mixed Pines	38	0	0	0	0	0	0	0	0	38
Upland Conifers	3	0	0	0	0	0	0	0	0	3
<b>Total</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>48</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	48	0	15	0	0	0	30	0	0	93
Next Step	0	38	64	10	65	79	127	0	0	382
<b>Total</b>	<b>48</b>	<b>38</b>	<b>79</b>	<b>10</b>	<b>65</b>	<b>79</b>	<b>156</b>	<b>0</b>	<b>0</b>	<b>475</b>



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
8	32228008-Monitor	3.7	42220 - Natural Jack Pine	Sapling Well	7	Immature	Monitoring	Natural Regen (Re-Inventory)	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Count per TMS spec											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Jack Pine											
<u>Regen:</u>											
<u>Other</u> C32-737											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
12	32228012-Monitor	20.3	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(1yr)	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u>											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Artificial Regen(3yr); Pesticide, Skidder/Mechanical; Planting, Replant											
<u>Treatments:</u>											
<u>Acceptable</u> jack pine											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 06/15/2016											
13	32228013-Monitor	5.5	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(1yr)	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Count per TMS spec. C32-763											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Artificial Regen(3yr); Pesticide, Hand Application; Planting, Initial Plant											
<u>Treatments:</u>											
<u>Acceptable</u> Jack pine											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 04/01/2017											
29	32228029-Cut	25.0	42290 - Natural Mixed Pine	Poletimber Well	37	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Clearcut stand, leave no residual. To protect Kirtland Warblers during nesting and fledging season no operations will be permitted 6/1-7/15.											
<u>Specs:</u>											
<u>Next Step</u> SitePrep, Scarification; Pesticide, Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Red Pine											
<u>Regen:</u>											
<u>Other</u> Consider chipping, herbicide or burning to control scots pine regen after the harvest.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
30	32228030-Cut	13.0	42290 - Natural Mixed Pine	Poletimber Well	37	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Clearcut Sand, no retention due to scots pine in stand. Replant to stand red pine. To protect Kirtland Warblers during the nesting fledging period  
Specs: operations will be permitted during 6/1-7/15.

Next Step SitePrep, Trenching; Pesticide, Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Burn,  
Treatments: Slash; Burn, Slash; Burn, Slash; Burn, Slash; Burn, Slash

Acceptable Regen: red pine, spruce

Other Comment: Consider chipping, burning or herbicide to control scots pine volunteers.

Proposed Start Date: 10/01/2017

36	32228036-Plant	15.4	320 - Upland Shrub	Nonstocked	0	Unspecified	Planting	Replant	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription  
Specs:

Next Step Monitoring, Artificial Regen(3yr); Pesticide, Skidder/Mechanical  
Treatments:

Acceptable Regen: jack pine

Other Comment: Percent to Treat = 100%

Proposed Start Date: 02/22/2017

52	32228052-Cut	6.2	42220 - Natural Jack Pine	Poletimber Medium	56	1-50	Harvest	Clearcut with Retention	42220 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Survey Needed**

Prescription Clearcut stand, Leave a pocket within the lowland spruce inclusion and on the eastern edge of the jack pine. To protect Kirtland Warblers during  
Specs: nesting and fledging season no operations will be permitted 6/1-7/15.

Next Step Seeding, Machine Seed; Monitoring, Artificial Regen(3yr)  
Treatments:

Acceptable Regen: Jack Pine, Black Spruce, Red Pine

Other Comment: Lowland spruce inclusion may be wet, recommend an operating caution.

Proposed Start Date: 10/01/2017

54	32228054-Cut	3.4	429 - Mixed Upland Conifers	Poletimber Well	67	81-110	Harvest	Clearcut with Retention	42220 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand, leave any red or white pine To protect Kirtland Warblers during nesting and fledging season no operations will be permitted 6/1-  
Specs: 7/15.

Next Step Monitoring, Artificial Regen(3yr); Seeding, Machine Seed  
Treatments:

Acceptable Regen: Jack Pine, Spruce

Other Comment:

Proposed Start Date: 10/01/2017

**Total Treatment Acreage Proposed: 92.5**

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Rick Hill : Examiner

Compartment: 228  
Year of Entry: 2018

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2I	3J	5E
		With Condition	Not Available				
335	324	6	4	Jack Pine	6	4	0
3	3	0	0	Low-Density Trees			
25	25	0	0	Lowland Shrub		0	
90	49	0	42	Lowland Spruce/Fir		42	
7	7	0	0	Marsh			
38	38	0	0	Natural Mixed Pines			
12	4	0	9	Upland Conifers		9	
56	55	0	1	Upland Shrub		0	1
10	10	0	0	Urban			
576	515	6	55	Total Forested Acres	6	55	1
	89%	1%	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 Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Rick Hill : Examiner

Compartment: 228  
Year of Entry: 2018

4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>2I: Survey needed</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6122 - Black Spruce	Poletimber Medium	12.3	67	1-50	
2	42220 - Natural Jack Pine	Poletimber Well	21.4	42	81-110	STAND CUT IN 1973-74. SCARIFIED AND DIRECT SEEDED MAY 1975.
3	42220 - Natural Jack Pine	Sapling Well	12.4	7	Unspecified	Harvested as part of timber sale #32-107-08-01, AMVETS Jack Pine. Cut by J. Carey Logging summer 2009. A small patch of mature trees were left at the south end of the stand for retention purposes. Stand was trenched and seeded under FTP # 32-737. passed regen count in the summer of 2015 at an average of 2171 trees per ac.
4	42120 - Planted Jack Pine	Sapling Well	31.1	27	Immature	Harvested in 1988: TS#13-88-01. Planted to jack pine and red pine in 1990.
5	42220 - Natural Jack Pine	Sapling Well	7.7	14	Immature	Stand was salvage cut late summer of 2002 by St. John Forest Products, permit #131-02-01, "Jack Pine Salvage West", due to damage from severe windstorm on 7/21/2002. FTP # C31-444 written on 12/30/2002 for site prep and seeding of jack pine. Actual trenching/seeding occurred on 11/05/03.
6	42120 - Planted Jack Pine	Sapling Well	16.0	18	Immature	Cut in 1999: TS# 15-98-01. Post cutting stand was roller chopped to treat slash and subsequently hand planted with jack pine.
7	42220 - Natural Jack Pine	Sapling Well	7.2	14	Immature	Stand was clearcut as a salvage sale in late summer of 2002: TS#131-02-01, "Jack Pine Salvage West", due to damage from a severe windstorm which occurred on 7/21/2002. FTP #C31-444 written on 12/30/2002. Actual trenching & seeding occurred on 11/05/2003.
8	42220 - Natural Jack Pine	Sapling Well	3.7	7	Immature	Harvested as part of timber sale #32-107-08-01, AMVETS Jack Pine. Cut by J. Carey Logging summer 2009.
10	42120 - Planted Jack Pine	Sapling Well	8.3	26	Immature	CUT IN 1990 PERMIT #19-88-1. TRENCHED IN 1990- PLANTED 5/1991.
14	42220 - Natural Jack Pine	Poletimber Medium	2.6	37	1-50	
15	6122 - Black Spruce	Poletimber Well	27.2	67	111-140	
16	42120 - Planted Jack Pine	Sapling Well	17.8	26	Immature	CUT IN 1990 PERMIT #19-88-1. TRENCHED IN 1990. PLANTED 5/91.
17	42220 - Natural Jack Pine	Sapling Well	10.2	18	Immature	Stand was commercially cut in Sept. 1999, permit # 21-98, "Pine Den Sale". FTP for disk trenching and seeding is C31-402. Stand was not seeded due to equipment failure. The site adequately regenerated as a result of the trenching.
19	42120 - Planted Jack Pine	Sapling Well	11.4	27	Immature	CUT IN 1988: PERMIT #22-88. PLANTED IN 1990.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	6122 - Black Spruce	Poletimber Well	13.2	73	81-110	
24	42120 - Planted Jack Pine	Sapling Well	10.2	18	Immature	Was commercially cut in August, 1999 : permit # 18-98, "West Branch Creek Sale". Trenched and planted: FTP # C31-401.
25	42120 - Planted Jack Pine	Sapling Well	11.2	27	Immature	CUT IN 1988: PERMIT #22-88. TRENCHED FALL 1989. PLANTED 1990. Some red pine were planted along Co. Rd. 581.
26	42220 - Natural Jack Pine	Poletimber Medium	6.3	46		Harvested in 1970: TS#5/69A. Scarified and broadcast seeded in 1971 (FTP# F-45).
29	42290 - Natural Mixed Pine	Poletimber Well	25.0	37	81-110	SCOTCH PINE PLANTED BY MACHINE 1979-80. Now a mix of Scotts and jack pine. Scotts pine are generally poorly formed.
30	42290 - Natural Mixed Pine	Poletimber Well	13.0	37	81-110	Scotts pine trenched and seeded in 1980.
31	6122 - Black Spruce	Poletimber Well	2.4	81		This is a small stand it should be harvested with adjacent stands.
32	42120 - Planted Jack Pine	Sapling Well	29.2	18	Immature	Stand cut in 1999, TS#13-98-01. Trenched and planted, 31-399.
33	6122 - Black Spruce	Poletimber Well	24.2	81	51-80	
35	6122 - Black Spruce	Poletimber Well	6.7	81		Stand acts as a buffer to the creek.
37	42220 - Natural Jack Pine	Sapling Well	10.2	14	Immature	Commercially cut in Oct. 2001: TS# 107-00-01, "West Branch Creek Sale". . FTP C31-438 was written on 12/03/01 for site prep & seeding jack pine. Trenching & seeding occurred on 11/10/03. No herbicide was used. Windstorm of 7/21/02 knocked down some trees on the east side of this sale, which were salvaged in late 2002 under permit 131-02-01.
39	42220 - Natural Jack Pine	Sapling Well	6.1	23	Immature	Cut in 1991 under PERMIT 17-90. PLANTED 5/94
40	42120 - Planted Jack Pine	Sapling Well	3.9	18	Immature	Stand cut in 1999, TS#13-98-01. Trenched and planted, C31-399.
41	6122 - Black Spruce	Poletimber Well	4.3	81	81-110	
43	42220 - Natural Jack Pine	Sapling Well	48.4	26	Immature	CUT IN 1989: TS#6-88. TRENCHED IN 1989 & 1990. PLANTED 5/91.
44	42120 - Planted Jack Pine	Sapling Well	24.4	17	Immature	Cut in 1999, TS#111-98-01. Planted to jack pine fall of 2000.

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Gwinn Mgt. Unit

Report 7 – Forested Stands

Compartment: 228  
Year of Entry: 2018



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	42120 - Planted Jack Pine	Sapling Well	8.6	17	Immature	Cut in 79 to facilitate take offs and landings on adjacent airstrip. Regeneration over time has resulted in ranging age, size, and stocking classes. there is also a strip cut in 1999, TS#111-98-01. Planted to jack pine fall of 2000. stands were combined to meet mapping standards.
46	42120 - Planted Jack Pine	Sapling Well	20.3	17	Immature	Cut in 1999, TS#111-98-01. Planted to jack pine fall of 2000.
52	42220 - Natural Jack Pine	Poletimber Medium	6.2	56	1-50	Wide ranging stocking and size classes.
54	429 - Mixed Upland Conifers	Poletimber Well	12.4	67	81-110	





Stand	Cover Type	Acres	Managed Site	General Comments:
11	6233 - Wet Meadow	6.6	No	
12	320 - Upland Shrub	20.7		Stand harvested February 2011 by Holli Forest Products, Inc. TS# 32-108-08-01 (C. 228 Jack Pine). All live jack pine were cut, no other trees were cut, except standing dead within 100 feet of the Co. Rd. There is a considerable amount of standing dead timber through the stand. A buffer along Rocky Creek was left, primarily the hillside along the north edge of the stand. under FTP c32-763 for jack pine regen trenched and seeded in 2013. Site failed a 2016 regen count, was planted at 1000t/a by Superior Forestry Services in the spring of 2016.
13	320 - Upland Shrub	5.9		Stand harvested February 2011 by Holli Forest Products, Inc. TS# 32-108-08-01 (C. 228 Jack Pine). All live jack pine were cut, no other trees were cut except the standing dead within 100 feet of the road. There is a considerable amount of standing dead timber left within this stand. Under FTP c32-763 for jack pine regeneration. Site failed a 2016 regen count, was planted at 1000t/a by Superior Forestry Services in the spring of 2016.
18	622 - Lowland Shrub	16.4	No	
21	122 - Road/Parking Lot	1.3	No	County Hwy 581
27	330 - Low-Density Trees	3.1	No	Moderately steep slope down to a lowland conifer type. Aspect is easterly. Contains a few bushy jack pines.
28	3201 - Sweet Fern	2.7	No	Abandoned ELF ROW.
34	6220 - Alder/willow	4.3	No	Tag alder bottom lands of the creek.
36	320 - Upland Shrub	17.7		Stand harvested summer of 2011 by Holli Forest Products, T. Sale 109, #32-109-08-01. Only live jack pine trees were cut. All spruce-fir were left as well as any dead standing jack pine. under FTP for jack pine regen C32-775. Stand was trench and seeded in 2014 by DNR resources. Site failed a 2016 regen count, was planted at 1000t/a by Superior Forestry Services in the spring of 2016. Site failed a walk through in the fall of 2016 on the planting list for 2017.
42	3209 - Upland Shrub (OI)	8.7	No	Abandoned ELF ROW.
47	122 - Road/Parking Lot	3.8	No	Cut in 1999: TS# 15-98-01. Post cutting stand was roller chopped to treat slash and subsequently hand planted with jack pine.
49	122 - Road/Parking Lot	5.2	No	CUT IN 1988: PERMIT #22-88. TRENCHED FALL 1989. PLANTED 1990. Some red pine were planted along Co. Rd. 581.
56	622 - Lowland Shrub	4.5	No	