



# Compartment Review Presentation

## Gwinn Forest Management Unit

Compartment 32026

Entry Year 2018

Acreage: 1,485

County Marquette

Management Area: Dead Horse Moraines

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

**Stand Examiner:** Theresa Sysol

**Legal Description:**

T44N R24W Section(s) 21,28,33

**Identified Planning Goals:**

To maintain and enhance the sustainability of the associated cover types, providing for wildlife, fisheries, and recreational values.

**Soil and topography:**

Shoepac-Trenary silt loam, Shoepac-Ensley complex, Charlevoix-Ensley complex, Carbondale and Tawas soils, Ensley muck, Cathro-Ensley mucks, Greenwood and Dawson soils. Mostly flat wetland conifer swamps and bogs with level to rolling upland. Generally rich soils on the uplands.

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

Private hunting camps to the west and elsewhere nearby. Mostly forested land with very little development.

**Unique Natural Features:**

None identified at this time.

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

None identified with HAL. Old logging camp sites and rail grades in area.

**Special Management Designations or Considerations:**

None identified at this time.

**Watershed and Fisheries Considerations:**

This compartment contains Mud Creek which is a tributary to the Escanaba River and is designated a Type 1 trout stream less than 50' in width. Priorities include keeping beaver densities low and ensuring that sediment from upstream sources does not reach the creek channel. A 300' buffer is recommended for Mud Creek in riparian areas adjacent to stands which include Aspen. Best Management Practices should be followed to reduce erosion into waterbodies.

**Wildlife Habitat Considerations:**

Compartment 26 is found within the Dead Horse Moraines Management Area; on Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include Northern Hardwood, Aspen, and Mixed Lowland Conifer. This management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area. The most significant wildlife management issues in the management area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); course woody debris, early successional forest, and deer wintering complexes.

The following have been identified as featured species for the Dead Horse Moraines Management Area: black bear, pileated woodpecker, ruffed grouse, and white-tailed deer.

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

Surface sediments consist of medium-textured till and peat and muck. There is insufficient data to determine the glacial drift thickness (<50 feet). The Ordovician Prairie du Chien Group and Black River Formation (and potentially intervening units) subcrop below the glacial drift. These formations could be used for stone. A former sand/gravel pit is located in Section 25, over two miles to the east. There may be some additional sand and gravel potential within the compartment, but any development could be limited by the shallow bedrock and numerous wetlands in the area. Abandoned iron mines are located five miles to the northwest. Any potential metallic mineral-bearing formations are likely too deeply buried here to be of economic importance. No state land in this area has been previously leased for metallic mineral exploration. There

is no economic oil and gas production in the UP.

**Vehicle Access:**

Good main access from both Swampbuck and Parker Spur Road(s), but very limited elsewhere due to numerous wet areas. Both main roads require periodic maintenance and upgrading.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

Old hunter walking trail, deer hunting, and dispersed recreation opportunities.

**Fire Protection:**

Fire frequency and intensity is low in this area, other than occasional lightning strikes and/or human-caused fires.

**Additional Compartment Information:**

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

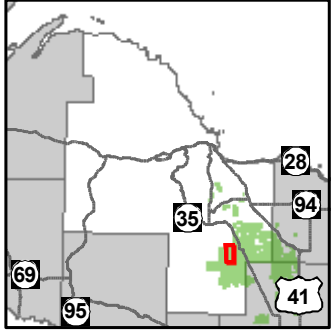
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

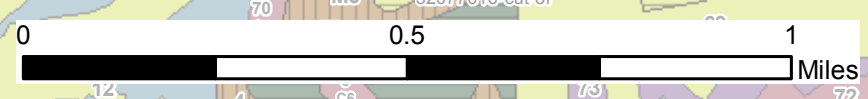
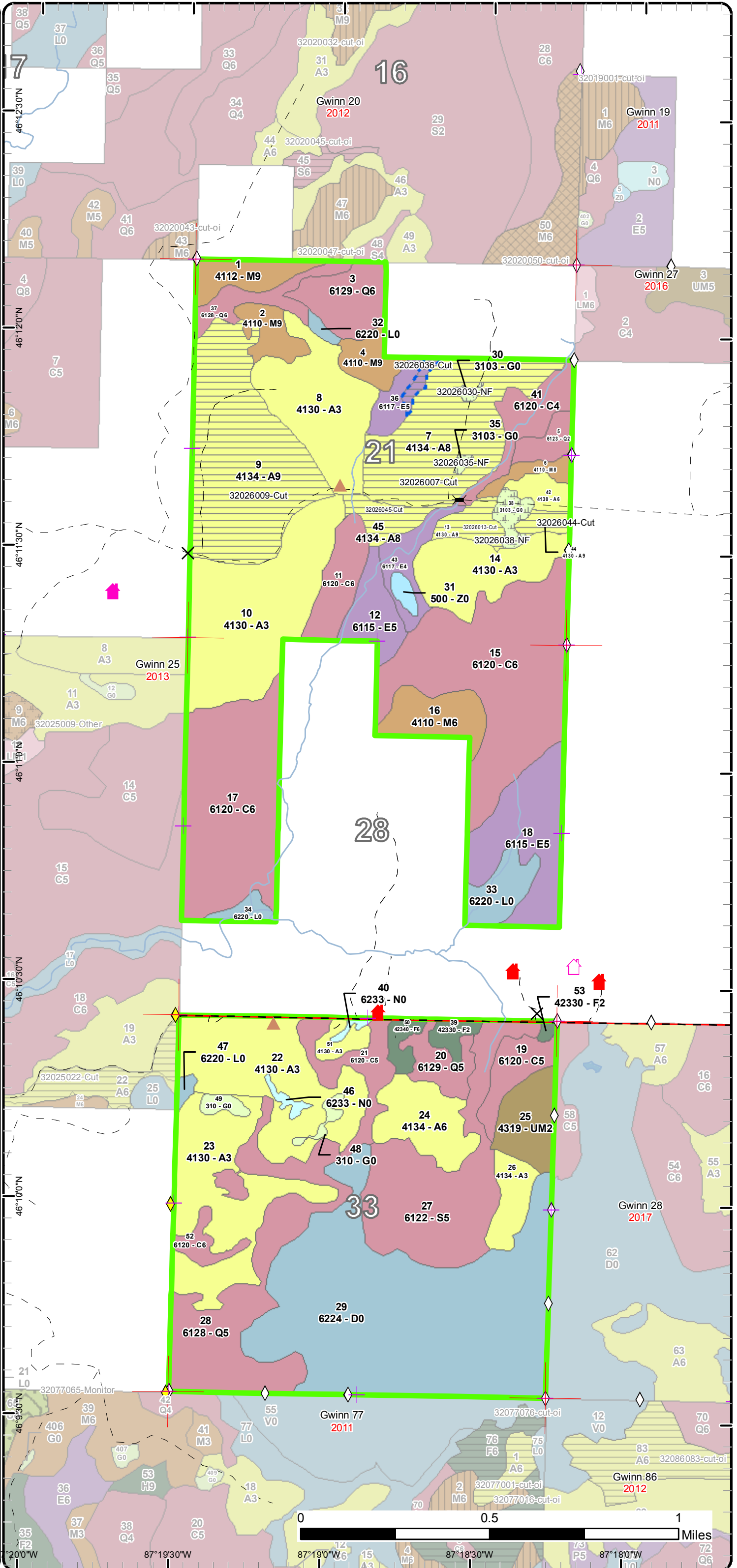
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 26  
 T44N, R24W, Sec. 21, 28, 33  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Dead Horse Moraines  
 YOE: 2018  
 Acres: 1484.5 GIS Calculated  
 Examiner: Theresa Sysol  
 Map Revised: 2/8/2017  
 Map Phase: Post-Review



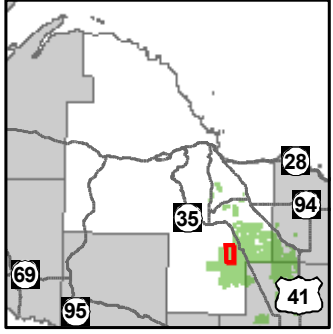
- Miris Corners
- Remonumented Section Corners
- Survey Grade GPS Corners
- Field Grade GPS Corners
- Gate
- Berms
- Bridges
- Unspecified Structures
- Cabin
- Structures, Seasonal Dwelling
- County Poor Dirt Roads
- Poor Dirt Roads
- Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Other Treatment - See Comments
- 411 - Northern Hardwood
- 413 - Aspen Types
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes



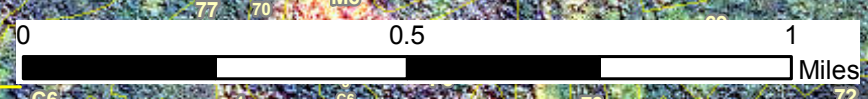
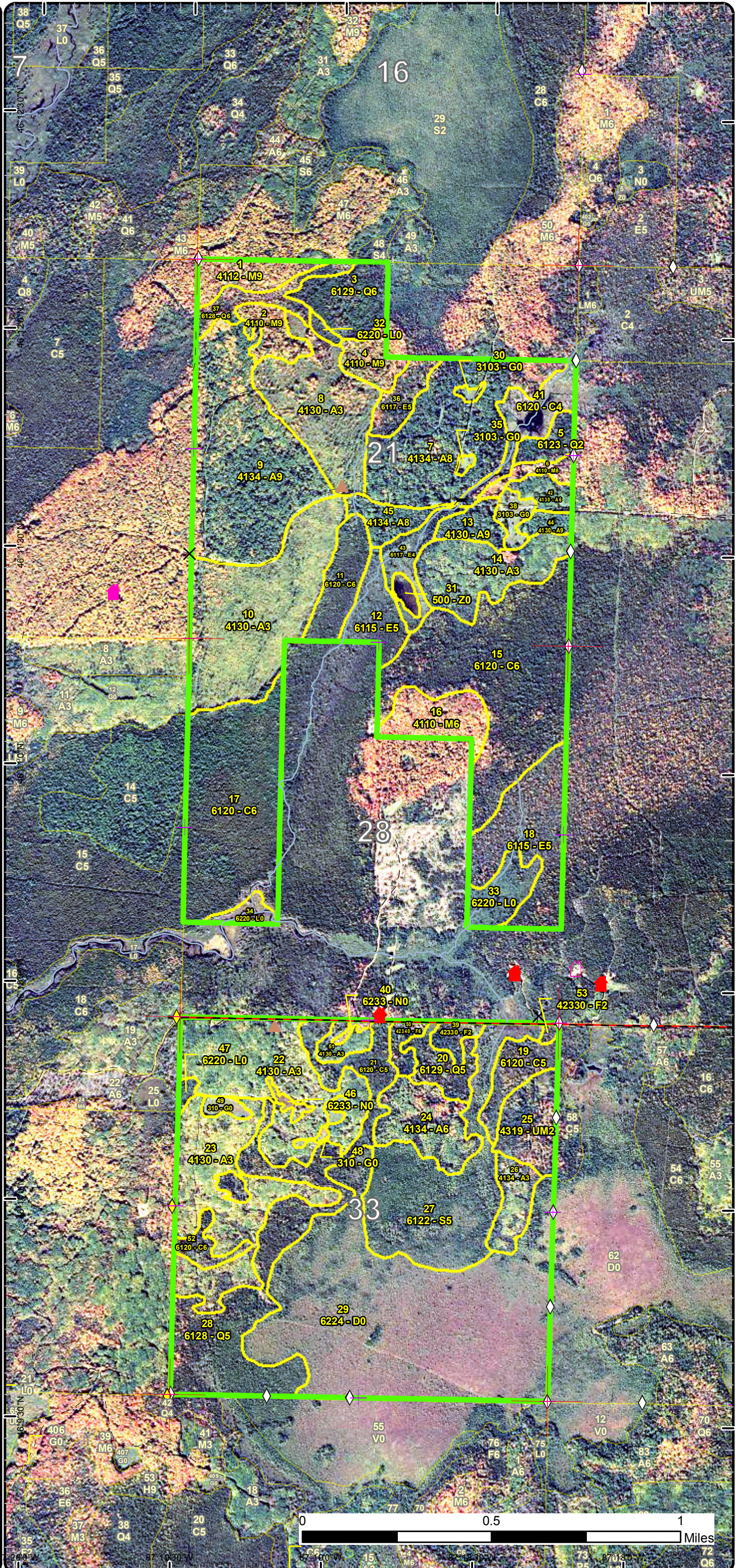
0 0.5 1 Miles

# Stand Boundary Map

Compartment: 26  
 T44N, R24W, Sec. 21, 28, 33  
 County: Marquette  
 Unit: Gwinn  
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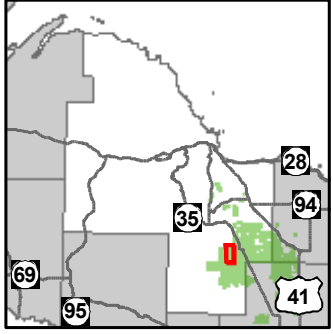


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- ✕ Gate
- ▲ Berms
- Bridges
- Unspecified Structures
- Cabin
- Structures, Seasonal Dwelling
- County Poor Dirt Roads
- - Poor Dirt Roads
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- ▭ Compartment Boundary
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- 411 - Northern Hardwood
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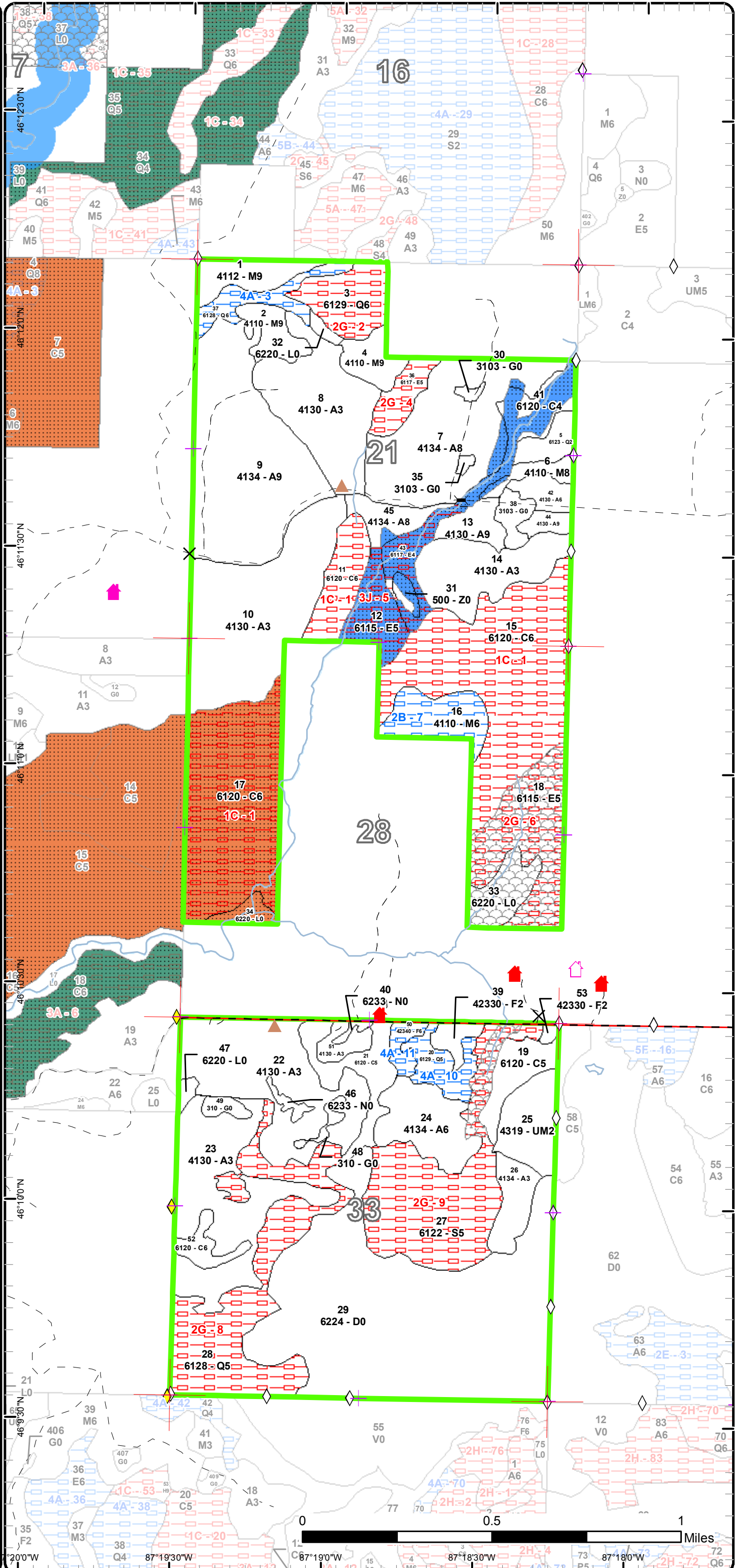


# Special Conservation Areas & Site Conditions Map

Compartment: 26  
 T44N, R24W, Sec. 21, 28, 33  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Dead Horse Moraines  
 YOE: 2018  
 Acres: 1484.5 GIS Calculated  
 Examiner: Theresa Sysol  
 Map Revised: 2/8/2017  
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- Miris Corners
- Remonumented Section Corners
- Survey Grade GPS Corners
- Field Grade GPS Corners
- Gate
- Berms
- Bridges
- Unspecified Structures
- Cabin
- Structures, Seasonal Dwelling
- County Poor Dirt Roads
- Poor Dirt Roads
- Rivers
- Compartment Boundary
- SCA Proposed
- Available w/ Constraints
- Unavailable
- 2B: Unknown if access through adjacent landowner(s) is possible
- 4A: No Markets Available for these Forest Products
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Riparian Area
- Habitat Corridor
- Other Habitat Area



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	136	64	132	0	28	26	168	0	0	0	0	0	0	0	0	0	0	554
Cedar	0	0	0	0	0	0	0	19	0	28	0	89	15	130	0	0	0	0	280
Herbaceous Openland	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Conifers	0	0	0	9	0	0	0	0	0	127	0	0	0	0	0	0	0	0	136
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	46	42	0	0	0	0	0	88
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	0	0	0	0	75	0	0	0	0	0	0	75
Marsh	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	39	64
Treed Bog	204	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	204
Upland Mixed Forest	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Upland Spruce/Fir	0	0	7	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	13
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
<b>Total</b>	<b>251</b>	<b>136</b>	<b>71</b>	<b>163</b>	<b>0</b>	<b>28</b>	<b>26</b>	<b>193</b>	<b>0</b>	<b>155</b>	<b>26</b>	<b>210</b>	<b>57</b>	<b>130</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>39</b>	<b>1483</b>



## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Compartment 26

Year of Entry: 2018

Acres of Harvest

Total Compartment Acres: 1,485

Commercial Harvest - 194  
 Harvests with Site Condition - 3  
 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
Lowland Deciduous	3	0	0	0	0	0	0	0	0	3
<b>Total</b>	<b>197</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>197</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	197	0	0	0	0	0	0	9	0	206
Next Step	0	0	0	0	0	197	0	0	0	197
<b>Total</b>	<b>197</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>197</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>403</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
7	32026007-Cut	71.9	4134 - Aspen, Spruce/Fir	Sawtimber Medium	62	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary

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

Prescription Harvest all aspen, paper birch, ironwood, spruce and fir - do not retain any merchantable spruce/fir due to spruce budworm issues. Retain cherry, elm and protect sapling maple regeneration where it is predominate. Retain some aspen where residual hardwood will be present to increase chances of wind firmness. Retain some paper birch for pileated woodpecker. Retain all ironwood to protect elm (may be difficult to distinguish apart in this stand).

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

Acceptable Regen: Aspen, birch, mixed hardwoods and a component of conifers.

Other Comment: Allow harvesting operations use of hunter walking trail in its current condition - consider maintenance post-harvest. Some paper birch should be included in retention - Pileated Woodpecker. Also, all Ironwood should be retained because I am not sure the cutter will be able to ID ironwood and elm. (Aspen Cut- Grouse and Deer)

Proposed Start Date: 10/01/2017

9	32026009-Cut	96.2	4134 - Aspen, Spruce/Fir	Sawtimber Well	62	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest all aspen, spruce and fir - do not leave any merchantable spruce/fir due to spruce budworm issues. Leave cherry for wildlife in pocket retention. Leave most, if not all, maple, elm, basswood and protect residual stems. Retain a few large aspen for cavity-nesters within the residual hardwood areas, where possible, and along private property line.

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

Acceptable Regen: Aspen, birch, mixed conifer, hardwood component

Other Comment: Allow harvesting operations use of hunter walking trail in its current condition - consider maintenance post-harvest. In addition: Agree with Treatment (Aspen Cut- Grouse and Deer) Retaining black cherry-Black Bear, Ruffed Grouse; Retaining some a few large aspen - Pileated Woodpecker and other cavity nesters

Proposed Start Date: 10/01/2017

13	32026013-Cut	9.7	4130 - Aspen	Sawtimber Well	58	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest all aspen, fir and spruce - do not retain any merchantable spruce/fir due to spruce budworm issues. Do not retain any aspen due to small stand size. Retain elm, paper birch, and mark cherry to leave.

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

Acceptable Regen: Aspen, birch, spruce, fir and a component of mixed northern hardwoods.

Other Comment: Includes narrow strip on N. side of Parker Spur. Buffer any lowland types, as needed.

Proposed Start Date: 10/01/2017





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
30	32026030-NF	1.4	3103 - Rubus-Fern	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	3102 - Grass	Draft Field Boundary

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

Prescription Harvest any merchantable timber within opening to provide natural maintenance from encroachment.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

35	32026035-NF	1.1	3103 - Rubus-Fern	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	3102 - Grass	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest any merchantable timber within opening to provide natural maintenance from encroachment.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

36	32026036-Cut	2.9	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	117	51-80	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Too Wet**

Prescription Harvest only upland portions of stand which are accessible from adjacent stand harvest, removing merchantable paper birch, aspen, balsam poplar, fir and spruce. Do not cut any other species. Avoid wetter grounds.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, balsam poplar, paper birch, yellow birch, and mixed conifers.

Regen:

Other May need to be winter harvest only, due to wet grounds. Consider this when establishing harvest boundaries.

Comment:

Proposed Start Date: 10/01/2017

38	32026038-NF	6.6	3103 - Rubus-Fern	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	3102 - Grass	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest any merchantable timber within opening to provide natural maintenance from encroachment.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
44	32026044-Cut	4.9	4130 - Aspen	Sawtimber Well	58	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary

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

Prescription Harvest all aspen, spruce and fir - do not retain any merchantable spruce/fir due to spruce budworm issues. Do not retain any aspen due to  
Specs: small stand size. Leave cherry for wildlife, and elm.

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

Acceptable Aspen, birch, and a component of mixed conifers, northern hardwoods.  
Regen:

Other Agree with Treatment (Aspen Cut- Grouse and Deer) Retaining black cherry-Black Bear, Ruffed Grouse  
Comment:

Proposed Start Date: 10/01/2017

45	32026045-Cut	11.2	4134 - Aspen, Spruce/Fir	Sawtimber Medium	58	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest all aspen, spruce and fir - do not retain any merchantable spruce/fir due to spruce budworm issues. Retain cherry, cedar, and paper  
Specs: birch for wildlife.

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

Acceptable Aspen, birch, mixed conifers, and a component of mixed northern hardwoods.  
Regen:

Other Treat with adjacent stands. Retain all black cherry (4% of stand) – Bear and grouse; Cedar – Deer; Paper Birch (1% of stand) – pileated  
Comment: woodpecker

Proposed Start Date: 10/01/2017

**Total Treatment  
Acreage Proposed: 205.9**

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Theresa Sysol : Examiner

Compartment: 26  
Year of Entry: 2018

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
553	553	0	0
281	62	0	219
15	15	0	0
136	9	27	100
88	0	0	88
25	25	0	0
75	0	0	75
4	4	0	0
65	44	21	0
204	204	0	0
22	22	0	0
13	7	6	0
3	3	0	0
1,485	948	54	483
	64%	4%	33%

### Dominant Site Conditions

	Dominant Site Conditions			
	2B	4A	1C	2G 3J
Aspen				
Cedar			219	
Herbaceous Openland				
Lowland Conifers		27		100
Lowland Deciduous				58 31
Lowland Shrub				
Lowland Spruce/Fir				75
Marsh				
Northern Hardwood	21			
Treed Bog				
Upland Mixed Forest				
Upland Spruce/Fir		6		
Water				
Total Forested Acres	21	33	219	233 31
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	1C: Other dept or div proc/practices	219	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cedar thermal cover type for wildlife.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Difficult, at best, due to low, wet hummocky grounds.							

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Theresa Sysol : Examiner

Compartment: 26  
Year of Entry: 2018

3	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Some of stand may be eventually treatable, but little merchantable volume currently. Also providing wildlife lowland cover/travel corridor.							
4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Will attempt to harvest portion of stand where accessible.							
5	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	31	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Provides buffer for Mud Creek; also contains wetland grounds.							
6	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	46	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Part of Mud Creek drainage within.							
7	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand not accessible through State lowlands. Difficult private access, if obtained.							

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Theresa Sysol : Examiner

Compartment: 26  
Year of Entry: 2018

8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	77	5E: Long-Term Retention	1C: Other dept or div proc/practices	Unspecified	Unspecified
<b>Comments:</b> Predominately wet site with numerous seasonal drainage channels observed. Heavier to cedar with a mix of other species - provides wildlife cover/corridor. Some portions were left as retention from adjacent harvest(s).							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	75	3J: Water quality / BMPs (stream, river, or lake)	4A: No Markets Available for these Forest Products	Unspecified	Unspecified
<b>Comments:</b> Includes drainage which feeds into larger bog to the south. Some transition edges are becoming merchantable, but overall timber is too small.							
10	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Predominately cedar with mainly sub-merchantable spruce/fir currently.							
11	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	6	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A few patches of mature timber, but overall stand size is too small for any commercial harvest. No SBW detected.							



## 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
	Habitat Areas or Corridors	Other Habitat Area	<b>Proposed SCA</b>	94
<b>Comments</b> cedar thermal cover				
	Habitat Areas or Corridors	Other Habitat Area	<b>Proposed SCA</b>	94
<b>Comments</b> cedar thermal cover				
	Potential Old Growth		<b>SCA Removal</b>	9
<b>Comments</b> This area no longer meets the criteria to be classified as a Special Conservation Area.				
	Potential Old Growth		<b>SCA Removal</b>	61
<b>Comments</b> This area no longer meets the criteria to be classified as a Special Conservation Area.				
<b>Mud Creek headwaters</b>	Spring-Seeps, Riparian Areas	Riparian Area	<b>Proposed SCA</b>	52
<b>Comments</b> Mud Creek headwaters				
<b>Mud Creek headwaters</b>	Spring-Seeps, Riparian Areas	Riparian Area	<b>Proposed SCA</b>	52
<b>Comments</b> Mud Creek headwaters				



**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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	14.5	97	81-110	2006 : A mix of about 60% sugar and 40% red maple. Some aspen, fir and other species. Generally poor timber quality but good potential for quality improvement is here. North of stand has been thinned but is private property. Possible access from south but would have to build a swamp road and freeze. We would save den trees and other wildlife trees and all existing tree sizes would be represented after thinning. 2015: Stand harvested as part of sale #012-08 "Parker End Sale" (unit 6) - cut September, 2011. Access was acquired from the north through private lands (who thinned their hardwoods by same logger at this time also). No wildlife underplanting completed. Still heavy defects within stand - forks, stain; will take several selection cuts to improve. Wildlife trees left (snag yellow birch, older maple, basswood). Some patch conifers. Very little new regeneration at this time.
2	4110 - Sugar Maple Association	Sawtimber Well	11.2	97	81-110	2006 FMD: Larger trees have canker and low forks. Good pole-size timber quality with good potential. Some good den trees here too. Ready to thin. Some small islands of hardwood to include nearby but not mapped separately at this time. 80% sugar and 20% basswood approximately with some other species. Surrounding aspen has good sugar maple regeneration but there is little in stand at this time. We would leave den trees and other wildlife values in trees during harvest. Also all existing tree sizes would be represented after the harvest. 2015: Stand harvested as part of sale #12-08 "Parker End Sale" (units 5,7) - cut September, 2011. E. portion of stand (~2 acres) is an aspen type, and was treated as final harvest. Basswood mainly in clumps; stain, borer damage, forks in maple. Wildlife trees were left (large yellow birch, paper birch snag, 20+ diameter maples). No wildlife underplanting completed. Little to no maple regeneration yet.
3	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	23.0	85	51-80	OPIC - FMD 2006: Scattered cedar and white pine, but most of stand is S6 spruce and tamarack. 2-3 stick average only although some patches of 4-5 stick tree. Sparse areas but mostly well-stocked. No significant mortality. Not merchantable yet, check in 20-30 years. Also, small upland island within stand - overstory a mix of red maple, w. birch and black spruce. Sparse because fir has died about 1990 in spruce budworm outbreak. Fir regenerating thick in spots. 2015: contains small island of maple/birch/fir. Cedar concentrated mostly along edges; interior heavy to spruce/tamarack. Timber in clumps, due to wet stand; hummocky. Some uprooting. Ground cover of sphagnum, lab tea, snowberry, iris.
4	4110 - Sugar Maple Association	Sawtimber Well	11.3	97	81-110	OPIC - FMD 2006: Larger trees have canker and low forks. Good pole-size timber quality with good potential. Some good den trees here too. Ready to thin. Some small islands of hardwood to include nearby but not mapped separately at this time. 80% sugar and 10% red maple approximately with some other species 10%. Surrounding aspen has good sugar maple regeneration but there is little in stand at this time. Some areas have thick fir understory. We would leave den trees and other trees with wildlife values. Also all existing tree sizes would be represented after the harvest. 2015: Stand harvested as part of sale #12-08 "Parker End Sale" (unit 8) - cut August, 2011. Legacy maple, yellow birch retained; some residual blowdown (with ironwood regeneration started). Rolling topography. Ground cover of club moss, bracken fern, raspberry, princess pine.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
5	6123 - Lowland Fir	Sapling Medium	8.7	25	Immature	OPIC - FMD 2006: Cut permit # 42-88-1, Only a couple aspen clones 3-4" dbh over a couple acres along hardwood upland north part of stand. Most of stand is well-stocked fir, w.spruce,tamarack,w.pine in that decreasing order. 1-2" average dbh with some areas smaller than 1". Still filling in. Some poorly stocked areas but not many. 2015: A few larger diameter black spruce, but mostly smaller. Trace amount of red maple, hemlock, aspen. Sphagnum ground cover; wet.
6	4110 - Sugar Maple Association	Sawtimber Medium	6.5	97	51-80	OPIC - FMD 2006: M6M7, Cut permit # 42-88-1 "North Parker Spur Hardwood" - cut summer, 1989. Small strip left between clearcuts. Some blowdown has occurred and caused gaps in the past. Not ready for thinning. 2015: Rolling terrain; lots of sparse areas; open grown. Also wet/low pockets. Sugar maple with black stain. Previous harvest caused excessive residual damage. Trace basswood.
7	4134 - Aspen, Spruce/Fir	Sawtimber Medium	71.9	62	81-110	OPIC - FMD 2006: A6F4, 5-stick average height well-stocked. Some mortality but not bad. F3 and M3 understory 1-3"dbh. Couple acres and fringe is F6 due to beaver activity along creek edge. This stand is the same as 8,9,10 but is recommended to hold for age/class distribution in this larger area. Hunter walking trail. 2015: Treat now, due to age and decline in both aspen and spruce/fir. Overmature aspen, which is breaking up, is being replaced by understory elm, F/S, cherry. Some areas heavier to small maple stems; a few cherry patches.
8	4130 - Aspen	Sapling Well	51.9	6	Immature	Stand harvested as "Parker End Sale" #12-08 (units 1,2,5) - south half of stand (unit 2) cut Feb, 2010 and now contains thick aspen regeneration ~20' hts; north half cut July, 2011 and regeneration slightly smaller (10-12' hts). Numerous blowdown, snap of retention trees (from wind storms after harvest). No chipping occurred in this stand - lots of slash/tops remain. Heavier residual maple, in places. Elm present. Hunter Walking trail within: grasses, trefoil, crown vetch all present.
9	4134 - Aspen, Spruce/Fir	Sawtimber Well	96.2	62	81-110	OPIC - FMD 2006: A6F4 well-stocked aspen 10-12"dbh 5-7 stick. Some mortality but not bad. Sp/fir under 2-5 stick medium stocked. Some larger hardwood but a lot of area thick sugar maple regeneration 1-2"dbh under. Small patches, 2 or 3, of hardwood near larger hardwood stand north could be left for diversity and are 1-2 acres each. Recommend holding this stand 10 years and cutting south of road and east of here for increased age/class structure. 2015: Stand needs to be harvested this entry; aspen, spruce is in decline and blowdown has been occurring. Nice sugar maple regeneration started where aspen is dead/down. N. end of stand somewhat heavier to hardwood. Hunter Walking trail within (FTP's W3-594- 1976, W32-76 - brush trail, re-seed 1979, W32-285 - maintenance, disk/seed 1983). May wish to re-establish/maintain? when harvested.
10	4130 - Aspen	Sapling Well	83.8	7	Immature	2015: Stand harvested as part of "Parker End Sale" #12-08 (Units 3,4) - cut Feb, 2010. This stand was chipped, with one slash pile left along road edge (near east end hunter walking trail) until Fall, 2011 when it was finally chipped and hauled away. Trace amount of tamarack, cherry within. Some mistletoe noted in roadside white spruce. Hunter Walking trail created/maintained under FTP's W3-594 (0.9 mile -1976), W32-76: brush trail, re-seed 1979, W32-285: disk/seed 1983. Trail was used as haul route for sale and re-blocked to vehicle traffic.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
11	6120 - Lowland Cedar	Poletimber Well	19.8	121	81-110	OPIC - FMD: C5E4L, very small poor timber quality cedar. Some areas fir average 6' tall seeding in but most areas have thick alder under a sparse overstory. 2015: Very little smaller regeneration - most is 10' and taller. Some remnant older aspen. More smaller diameter cedar within interior. Lots of nurse logs/old blowdown overgrown with moss/lichen.
12	6115 - Lowland Ash	Poletimber Medium	17.7	117	1-50	OPIC - FMD: SCA. E4Q4L, Poor timber quality ash with scattered and a few other lowland conifers. Ash has dead or dying tops due to fluctuating water table most likely. Beaver active in past. Some areas E2 or E1. Marginally productive for timber. Stand has high value for stream buffer and water quality protection. Beaver habitat. Biodiversity stewardship stand for those reasons. Some Q5 areas away from stream.
13	4130 - Aspen	Sawtimber Well	9.7	58	81-110	OPIC - FMD: A6F4. Well-stocked 5-6 stick with thick fir under most areas, some M3 on higher ground. Mature but just a bit smaller than stds. 7,8,9,10. Hold for age/class distribution. 2015: Includes a small strip along north side of Parker Spur. Log-sized aspen with thick fir/spruce understory; aspen being replaced by fir. Harvest now.
14	4130 - Aspen	Sapling Well	36.2	25	Immature	OPIC - FMD: A3, Cut permit # 39-88-1 "U.S.A. Block" - harvested in 1992. 2-4" dbh well-stocked. Some gaps poorly stocked but mostly well stocked throughout. Some fir and balsam poplar. SW corner of stand F3 mostly but some sparse areas with alder. 1-2" dbh average. About 1/3 fir, 1/2 tamarack, and 1/6 aspen. Also includes a very small stand of hardwood (within N. end against G type); poor timber quality but good wildlife and other biological diversity values. Not ready for thinning. 2015: Hardwood residual patch is maple, primarily 8-10" dbh with thick fir understory.
15	6120 - Lowland Cedar	Poletimber Well	110.6	122	81-110	OPIC - FMD: C5Q4, Mostly smaller cedar, some areas C3 especially east part of stand 2" dbh. A few areas of higher ground west of hardwood stand 16 have fir, spruce, w. pine. Cedar is small away from high ground. North of hardwood st. 16 is well-stocked cedar 3 stick. Water influence south where stand forms channel and drains into Mud creek. Most of stand quite small and non-merchantable trees.
16	4110 - Sugar Maple Association	Poletimber Well	21.1	99	111-140	OPIC - FMD: Access may be difficult. Need to cross stream on private and go across private. 3 landowners. Permission unknown at this time. Contact all landowners for access. Good timber potential here. Low forks, canker etc to come out. Good sugar maple south fades to poorer red maple type north along swamp. Mostly even age but some larger old residual 16-24" dbh with some good den trees among them. Not many log trees however. We would leave some of these larger trees as well as den trees in any thinning. Wildlife div. may underplant hemlock or white pine after sale for stand diversity. 2015: Stand was never treated, due to access.
17	6120 - Lowland Cedar	Poletimber Well	88.7	100	51-80	OPIC - FMD: SCA. C6Q4 Marginally productive. Smaller trees. Was put into potential old growth or bio.stewardship to protect riparian values along Mud creek headwaters.
18	6115 - Lowland Ash	Poletimber Medium	46.2	102	1-50	OPIC - FMD: SCA. E4Q4L, Scattered black ash. Some cedar and spruce. Small trees. Stand not visited in 2006. Stand was put into potential old growth maintenance to protect riparian values along Mud creek headwaters.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	6120 - Lowland Cedar	Poletimber Medium	15.3	119	81-110	2015: Very wet, very hummocky stand - some concentrated clumps of cedar, but still low BA (30-40). Access to stand by ice road only. Stand transitions into thicker cedar (120 BA+) with good component of paper birch mixed within. Ground cover noted: sedges, grasses w/tagalder, cattails, iris; sphagnum under thicker cedar. OPIC - FMD: C4E4, Wetter site.C5C6C3 along stand 25. North stand gets smaller and sparse.
20	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	13.3	81	51-80	Edge of upland contains some larger spruce, fir and cedar. Some water influence. Trees get smaller towards interior - more of a treed bog type with sphagnum, lab tea ground cover. Very variable and hard to delineate old cut areas (part of sale #004-98). Slight ridge/swale.
21	6120 - Lowland Cedar	Poletimber Medium	20.5	81	51-80	Cedar along upland edge but mostly ash interior - some spruce, aspen. Mostly marginally productive or non-merchantable. Ash has dead tops in areas, is short and mixed with alder. Some cedar in thicker patches. Also roadside patch of larger tamarack/spruce (which was never cut with sale #004-98) adjacent to stand 50.
22	4130 - Aspen	Sapling Well	67.5	26	Immature	2015: Some lightly stocked, patchy areas within - barren/water drainages. Aspen from 3 - 8" dbh now. Heavy goldenrod ground cover, especially in old skids/roads; also raspberry, blackberry, bunchberry. .2006: A3 Cut Permit #38-88-1 "South Buck Sale" ( Unit 2-4) - harvested fall, 1991. 2" average dbh mostly well-stocked. Some wetter areas poorly stocked or non-stocked. Those areas have fir and/or alder seeding in. 5-10 acres in stand poorly stocked overall, the rest well-stocked.
23	4130 - Aspen	Sapling Well	64.2	15	Immature	2015: Cedar/ash pockets within. 2006: opening created in sale. Cut under permit #3-98-01 by K&K logging in 2001 and 2002. Well-stocked up to 1" dbh. A lot of cedar residual in this stand plus islands of wetland excluded. Parts of stand south are more upland moraines or eskers. Island and peninsula of lowland conifer left for diversity within. Some sparse areas with alder and small ash. Mix of ash, cedar and other lowland conifers. All trees are small, mostly 1-2 stick with some saplings.
24	4134 - Aspen, Spruce/Fir	Poletimber Well	27.8	40	51-80	OPIC - FMD: Cut in 1977 well-stocked 2-4 stick aspen, just becoming pole-sized. Thick fir understory component 2" dbh up to 1-2 stick. Some swales, low areas poorly stocked. Mostly eskar/moraine. Some older residual hardwood scattered about the stand. North part is F5F3, but most is separated out into a different stand. 2015: Aspen now 5 - 9" dbh with full fir understory. Majority of the stand is smaller diameter. Clump of larger bigtooth aspen on ridge - left from previous harvest? Ground cover of bunchberry, bracken fern. Some stem breakage, but overall healthy. Harvest only if needed to balance aspen mgmt goals.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	4319 - Mixed Upland Forest	Sapling Medium	21.8	24	1-50	OPIC - FMD 2006: Cut Permit #35-88-1 "Way South Sale" (unit 1). Stand is F1F2U with scattered sugar maple residual. Some hazel and cherry. Should seed in eventually with spruce/fir but is now understocked with trees. Patches of F3 with some scattered. Some aspen and balsam poplar on swamp edge. Upland is raspberry with scattered F1,F2, and F3 and older residual hardwood. Looks like hardwood was clearcut with few or no aspen present. No summer access for machine regeneration so recommend wait for natural regeneration. Good open land wildlife values. 2015: Mixed age classes, in places. Good aspen/balm clones from harvest, but also some open areas with sparse aspen, fir. (Leave) strips of cedar with overmature aspen/balm, birch mixed within. Sale was closed without being entirely completed. This most likely accounts for the mixed size/age classes. South end of stand has more residual maple mixed within; open-grown. Some scattered fir patches (6-8" dbh) with F3; fir is healthy. Difficult access to stand, as noted above. Ground cover noted: club moss, bracken, lichen, bunchberry, raspberry.
26	4134 - Aspen, Spruce/Fir	Sapling Well	14.0	23	Immature	OPIC - FMD: A3A2F1, Cut permit #35-88-1 "Way south Sale" (unit 2). Mostly well-stocked 2" average dbh but some sparse areas. Fir in patches and throughout in understory 8' tall up to 2" dbh. 2015: Sale was harvested in 1994, 1995 and was incomplete when closed - may account for variable sizes, esp. in fir. Some clumps of sugar maple, esp. along stand edges. Also, larger diameter fir tended to be in clumps/patches. Ground cover noted: grasses, bracken fern, raspberry.
27	6122 - Black Spruce	Poletimber Medium	75.4	102	1-50	OPIC - FMD: S4S5S2 Smaller spruce and tamarack. Patches of S3 and S6. Some cedar especially along upland edges. Mostly bog type vegetation. Much of the stand is 3-4" dbh and marginally productive. Stream corridor stand protected by biodiversity maintenance. 2015: Larger spruce along upland edges (with sphagnum ground cover), but majority of interior is sapling sized with leatherleaf and lab tea. A few paper birch noted. Agree with previous inventory notes.
28	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	76.9	82	51-80	2006 OPIC - FMD: Wet, Bog type Some bigger trees on edge. Mostly cedar on edge but the rest is mostly spruce. Small trees with 1-2 sticks coming in with smaller S3 or S2 among alder and/or bog vegetation. 2015: Old ice road within, esp. visible in southern portion. Marginally productive grounds; wet, numerous drainage channels with tagalder, ash, grasses. Some cattails. No cedar regeneration noted. Trace amount of hemlock, maple.
36	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	11.5	117	51-80	OPIC - FMD: Scattered 2-3 stick ash with 4-stick scattered and some larger. More P and F type east but small trees. Mostly wet non-merchantable. 2015: North end with more paper birch - fir understory. Ground cover noted: sphagnum, moss, grasses, thistle, maple.
37	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	13.8	85	51-80	2006: Q5E5, diverse Q stand. Sparse areas with small trees. Not good timber quality. Swale or drainage, possible stream or intermittent stream going through stand. Alder along stream and in large patches. Areas of Q4. 2015: Some thicker F3 (2-4" dbh) along stand 1 boundary.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	42330 - Upland Fir	Sapling Medium	5.8	16	Immature	OPIC - FMD 2006: Cut in December, 2000. Permit #004-98-01 "Swamp Buck Fir". 2015: Sale was incompletely cut and stand blends into surrounding types. Roadside area has predominately aspen, and also a small marsh inclusion. Residual cedar, hemlock scattered, with ~ 20-25% cedar overstory with F3/S3 underneath. A few larger S,F. Trace white pine. Ground cover of bunchberry, club moss, bracken fern and lichen. Drops into smaller timber and wetter grounds.
41	6120 - Lowland Cedar	Poletimber Poor	19.4	67	1-50	OPIC - FMD 2006: SCA. C4Q4, stream buffer has high riparian value here to protect mud creek. Sparse areas and drained beaver ponds included. A small area of C6 is west of creek but most of stand is sparse small cedar with a few other lowland conifers. 2015: Riparian Mgmt Zone - protect.
42	4130 - Aspen	Poletimber Well	7.7	27	Immature	OPIC - FMD: Cut permit #42-88-1 - spring/summer, 1989. A3 well-stocked 2-4" dbh with some up to 6" 2 stick. Some conifer 2" dbh scattered. 2015: Hypoxylon within. Aspen just coming into pole size.
43	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	13.0	117	1-50	OPIC - FMD: SCA. E4Q4L, Poor timber quality ash with scattered and a few other lowland conifers. Ash has dead or dying tops due to fluctuating water table most likely. Beaver active in past. Some areas E2 or E1. Marginally productive for timber. Stand has high value for stream buffer and water quality protection. Beaver habitat. Biodiversity stewardship stand for those reasons. Some Q5 areas away from stream. 2015: Creek/drainage buffer stand. More ash to south.
44	4130 - Aspen	Sawtimber Well	4.9	58	81-110	OPIC - FMD 2006: A6F4, Mature but just under rotation age. Some mortality and gaps in stand but looks like it can hold at least 10 years. More fir understory in south part. 2015: Spruce, aspen in decline now - harvest. Some slightly higher grounds within containing more hardwood saplings.
45	4134 - Aspen, Spruce/Fir	Sawtimber Medium	11.2	58	51-80	OPIC - FMD 2006: A6F4, Mature but just under rotation age. Some mortality but not bad. Can hold or cut. Recommend hold for 10 years. 2015: Stand should be harvested now. Decline in aspen and spruce/fir noted (blowdown); larger white spruce with tops snapped off. Protect/buffer drainage (stand 43).
50	42340 - Upland Spruce/Fir	Poletimber Well	5.8	61	51-80	OPIC - FMD 2006: F6A4B4, Fir has been filling in the open areas of this stand and now is fully stocked, mostly with fir. Some cedar and w. birch. Average size of stand is 2-stick but some are larger as well as small. Check in 10 years but may be later for harvest. Some areas are still F5 but stocked with seedlings in most former bare areas. 2015: Stand incorporates what was previously called a grass type along road, which is some mature birch, aspen, maple, fir and spruce; trace hemlock. Remainder of stand contains partial cut #004-98 (part of Unit 2) "Swamp Buck Fir" sale, which was closed but not completed. Also earlier cutting permit #20/74 in NWNE, removing BP, BF and some cedar, and permit #041-84-2 cut in Nov, 1984. Sizes vary accordingly, and overall stand is not ready for harvest. No budworm noted. Ground cover mainly bunchberry, sphagnum, lichen; trace hazel.

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Gwinn Mgt. Unit

## Report 7 – Forested Stands

Compartment: 26  
Year of Entry: 2018

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
51	4130 - Aspen	Sapling Well	6.3	26	Immature	2015: Aspen with lower spots within (black spruce, tamarack and grasses). Bunchberry ground cover noted. 2006: A3A2F2, Cut permit #38-88-1 "South Buck Sale" (unit 1) - harvested fall, 1991. A couple acres of F2 in this stand but most of stand is well-stocked aspen 2" average dbh with fir throughout.
52	6120 - Lowland Cedar	Poletimber Well	7.1	87	81-110	OPIC - FMD: Peninsula of lowland conifer left for diversity in surrounding clearcut. Some sparse areas with alder and small ash. Mix of ash, cedar and other lowland conifers. All trees are small, mostly 1-2 stick with some saplings. 2015: Same as previous comments. Ground cover of sphagnum, club moss noted. Trace paper birch, black cherry.
53	42330 - Upland Fir	Sapling Medium	1.3	16	Immature	OPIC - FMD: F2, Cut in December, 2000. Permit #4-98-01. medium stocked fir and spruce 3-6 feet tall with a few scattered residual cedar, red maple and w. birch. Still filling in average 3-6' tall.



Stand	Cover Type	Acres	Managed Site	General Comments:
29	6224 - Treed Bog	204.4	No	OPIC - FMD: Treed bog. Scattered short old spruce.8' down to 2' tall. Fades to treeless bog farther interior. Can see a long way across, just like in the pleistocene. A few scattered small upland islands contain larger spruce.
30	3103 - Rubus-Fern	1.4	No	Hunter walking trail connects into this opening. FTP W32-482: scheduled for herbicide, but never completed?
31	500 - Water	3.1	No	OPIC - FMD: old beaver pond, not active lately (2006) but holding water. 2015: appears to be expanding
32	6220 - Alder/willow	2.1	No	OPIC - FMD: L-LOWLAND BRUSH
33	6220 - Alder/willow	15.1	No	OPIC - FMD: SCA. L-lowland brush along mud creek headwaters
34	6220 - Alder/willow	5.5	No	OPIC - FMD: SCA. L-lowland brush along mud creek headwaters
35	3103 - Rubus-Fern	1.1	No	FTP W32-482: spike herbicide (10#) 6/26/1996 to remove aspen, spruce regeneration. Raspberry, clover, strawberry ground cover.
38	3103 - Rubus-Fern	6.6	Yes	FTP W32-482: spike herbicide spot treated 6/26/1996 (20#) to eliminate aspen, spruce regeneration. FTP W32-463 also proposed for this work in 1992, but unsure if it was completed. FTP W32-699: Invading spruce/fir removed (chainsaw felling) January, 2008 (4 acs) - south side of road only. Ground cover of raspberry, strawberry, horsetails noted. Harvest merchantable clones of aspen with adjacent stands, if desired.
40	6233 - Wet Meadow	1.4	No	Wet area - mostly grasses with sedge.
46	6233 - Wet Meadow	2.4	No	Wet area with scattered aspen, birch.
47	6220 - Alder/willow	2.0	No	Tagalder area with some scattered timber.
48	310 - Herbaceous Openland	2.6	No	FTP W32-468: opening created (rockrake,disc and seed) August,1995. Blocked and seeded access trail also (off Swampbuck Rd). Some bracken fern, golden rod, raspberry. Clover, trefoil, grasses.
49	310 - Herbaceous Openland	3.5	No	FTP W32-611: 2.1 acs cleared and seeded August, 2002 (fertilized and seeded grass/legume mix). Goldenrod, aster, raspberry; some thistle. Trefoil. Other grasses and sedges, but could not I.D.