



# Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32084

Entry Year 2020

Acreage: 1,887

County Marquette

Management Area: Dead Horse Moraines

**Revision Date:** 2018-08-06

**Stand Examiner:** Peter Holodnick

**Legal Description:**

T43NR24W Sections 13, 14, 15

**Identified Planning Goals:**

This compartment contains extensive lowland areas, mostly cedar with some black ash. Most of these areas are in special management either for riparian values, deer yard, or potential old growth due to large intact areas. The stands proposed for harvest this entry period are three small hardwood stands for their second thinning and one small aspen final harvest. We will not cut any hemlock, cedar, white pine or red pine in any harvests. We will retain all species represented and all size classes including all large legacy trees in the hardwood harvests. We will retain at least two den trees per acre if present. We will retain at least 50% of existing cherry, w. spruce, yellow birch in these hardwood stands. Riparian areas will be protected.

**Soil and topography:**

Level to rolling uplands, low drainages and swamps. Cathro-Ensley complex, Shoepac-Ensley complex, Charlevoix-Ensley complex, Trenary silt-loam, Nahma-Sundell complex, Carbondale and Tawas soils.

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

Some small individually owned hunting camps, mostly a large block of state land.

**Unique Natural Features:**

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

old logging camps site in compartment.

**Special Management Designations or Considerations:**

Riparian management stands and potential old growth stands 14, 15, 16, 18, 20, 22, 32, 33, 38. stands 18 and 22 were added for watershed continuity.

**Watershed and Fisheries Considerations:**

Small headwater streams in section 14 and NW part of 15.

The northwestern region of this compartment partially contains an unnamed waterbody. A 100' plus 5' per 1% increase in slope; buffer is recommended to protect shoreland areas adjacent to the unnamed waterbody (specifically stand 23 and 51)

**Wildlife Habitat Considerations:**

Compartment 084 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**

Compartment 84 sections 13-15 T43N-R24W, Marquette County: Surface sediments consist of medium-textured till and peat and muck. here is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. The Trenton and Black River are quarried for stone in the UP. There are no gravel

pits located in this area and potential appears to be limited. Abandoned iron mines are located ten miles to the northwest. Part of this area was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:**

good along the west side off Hamilton Homestead road, the rest of the compartment is poor due to blocked access from private land or extensive wetland.

**Survey Needs:**

No corners requested this entry period

**Recreational Facilities and Opportunities:**

Traditional outdoor recreation.

**Fire Protection:**

Fire frequency is low, response time medium.

**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**

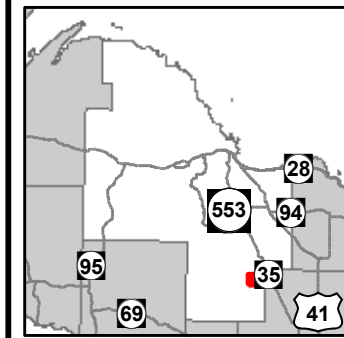
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

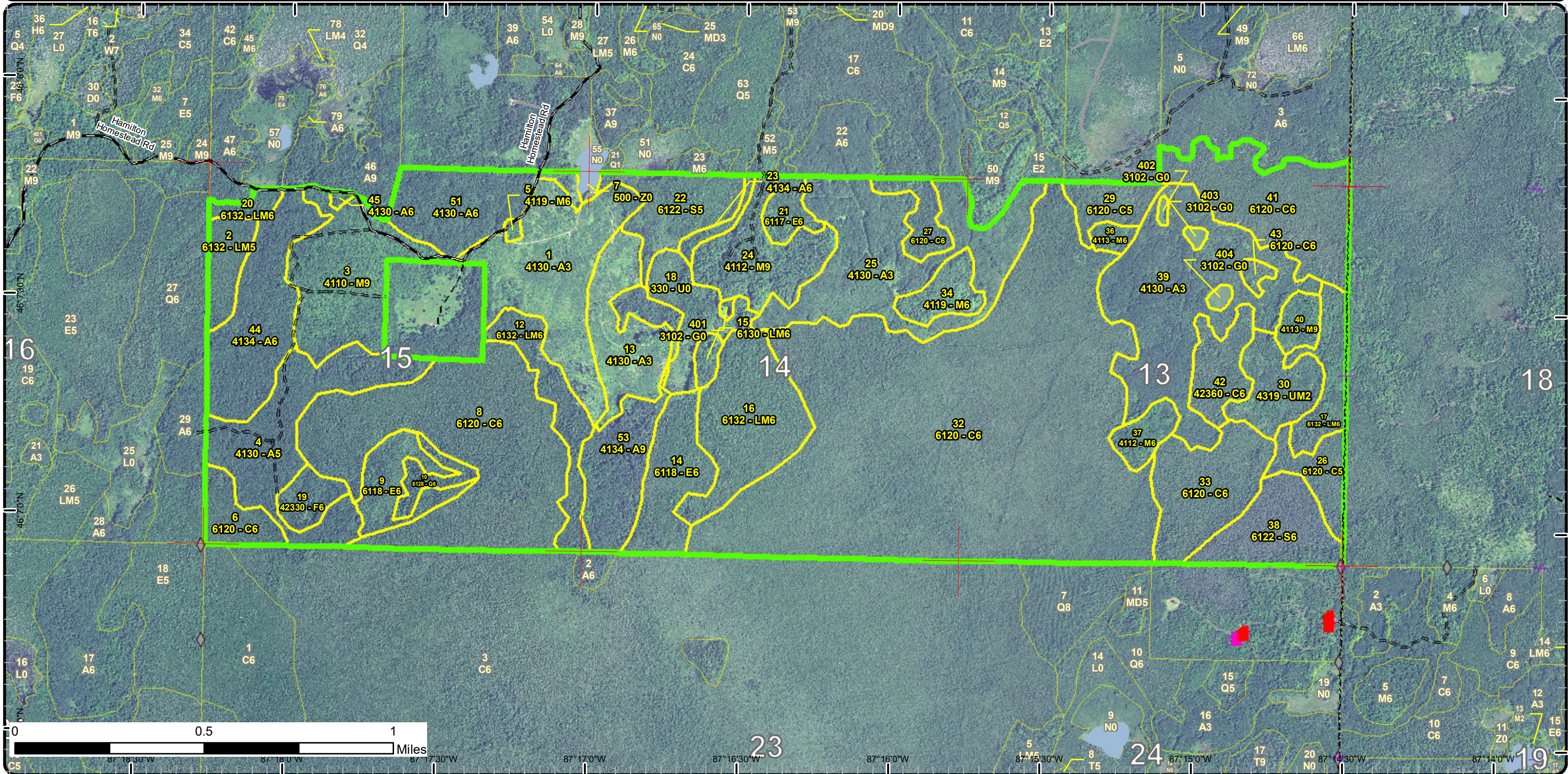


# Stand Boundary Map

Compartment: 84  
 T43N, R24W, Sec: 13, 14, 15  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Dead Horse Moraines  
 YOE: 2020  
 Acres: 1,887 GIS Calculated  
 Examiner: Peter Holodnick  
 Map Revised: 8/13/2018  
 Map Phase: Web-Post

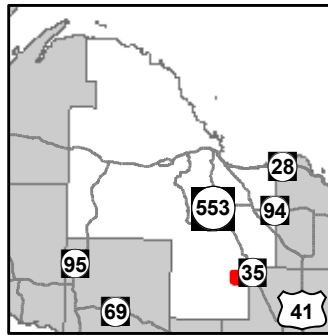


- Miris Corners
- Remonumented Section Corners
- Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Cabin
- Structure, Seasonal Dwelling
- Structures
- Intermittent Stream
- Lake/Pond
- Perennial River
- Swamp
- Lakes and Rivers All
- Compartment Boundary
- Stand Boundaries
- 330 - Low Density Trees
- 500 - Water
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland

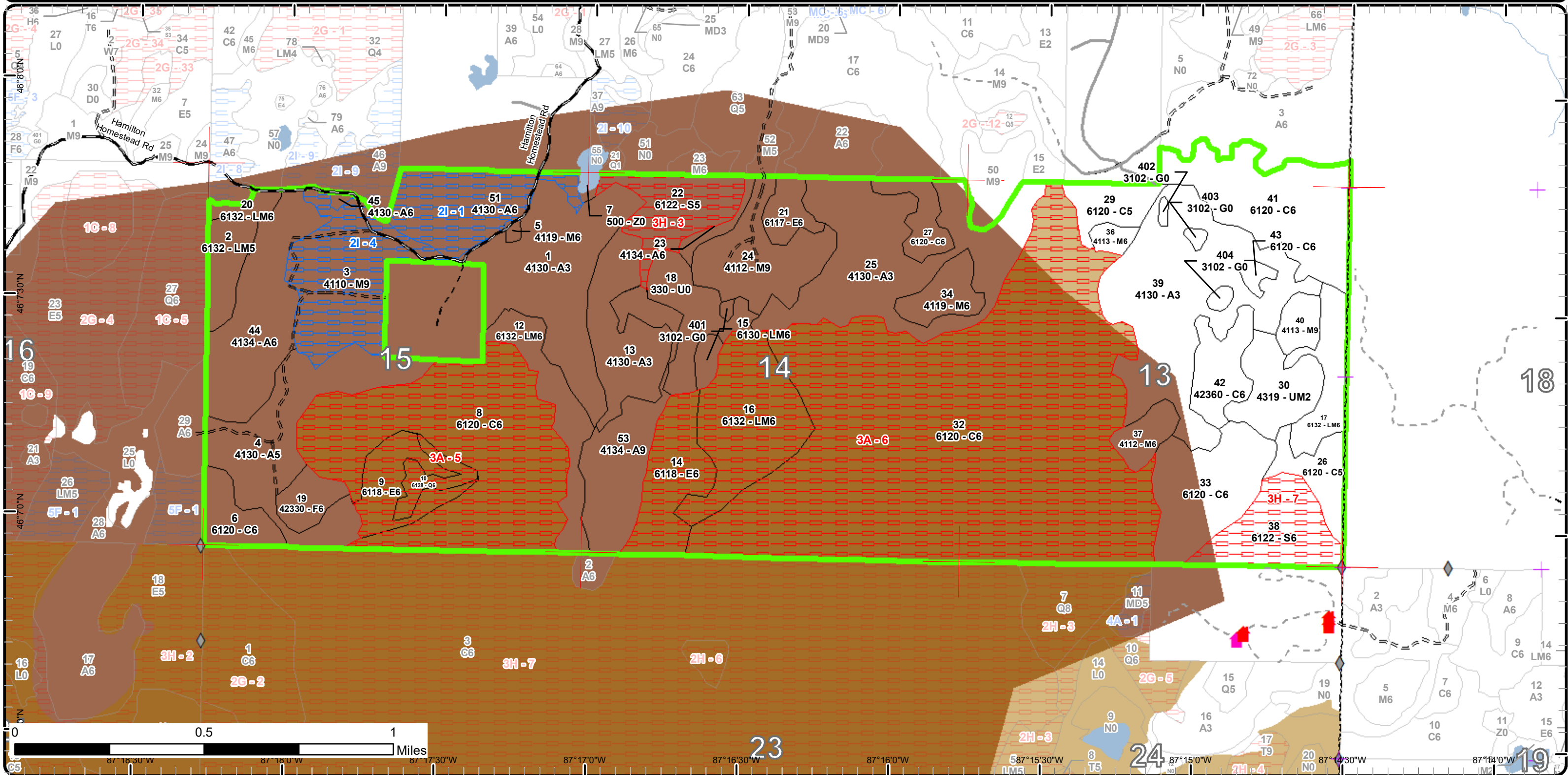


# Special Conservation Areas & Site Conditions Map

Compartment: 84  
 T43N, R24W, Sec: 13, 14, 15  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Dead Horse Moraines  
 YOE: 2020  
 Acres: 1,887 GIS Calculated  
 Examiner: Peter Holodnick  
 Map Revised: 8/13/2018  
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Cabin
- Structure, Seasonal Dwelling
- Structures
- Intermittent Stream
- Lake/Pond
- Perennial River
- Swamp
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 3A: Conservation Values incompatible with harvest at this time
- Stand Boundaries
- Forest Habitat Core Interior
- Deer Winter Range



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

Gwinn Mgt. Unit

Compartment 84    Year of Entry 2020

Peter Holodnick : Examiner



## 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	121	0	212	0	161	70	0	0	0	0	0	0	0	0	0	0	0	564
Cedar	0	0	0	0	0	0	0	0	0	218	34	545	0	0	0	0	0	0	797
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Low-Density Trees	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Lowland Conifers	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Lowland Deciduous	0	0	0	0	0	0	0	0	11	25	37	0	0	0	0	0	0	0	72
Lowland Mixed Forest	0	0	0	0	0	17	0	0	30	30	0	0	61	0	0	0	0	5	143
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	39	34	0	0	0	0	0	0	0	73
Northern Hardwood	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	147	152
Upland Mixed Forest	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Upland Spruce/Fir	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>Total</b>	<b>36</b>	<b>121</b>	<b>0</b>	<b>212</b>	<b>41</b>	<b>178</b>	<b>70</b>	<b>0</b>	<b>41</b>	<b>327</b>	<b>105</b>	<b>545</b>	<b>61</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>152</b>	<b>1887</b>



## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 84

Total Compartment Acres: 1,887

Commercial Harvest - 157  
 Harvests with Site Condition - 112  
 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	161	0	0	0	0	0	0	0	0	161
Northern Hardwood	0	108	0	0	0	0	0	0	0	108
<b>Total</b>	<b>161</b>	<b>108</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>269</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	269	0	0	0	0	0	0	0	0	269
Next Step	0	0	0	0	0	0	269	0	0	269
<b>Total</b>	<b>269</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>269</b>	<b>0</b>	<b>0</b>	<b>538</b>

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
3 32084003-Cut	65.3	4110 - Sugar Maple Association	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	Proposal

**Habitat Cut: No Site Condition: Survey Needed**

Prescription Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock/Cedar. Favor Basswood and Yellow Birch.

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

Acceptable Any tree species currently in the overstory is acceptable.  
Regen:

Other This stand will need survey corners.  
Comment:

Wildlife - Favor Basswood (5%) white-tailed deer, pileated woodpecker and black bear and Yellow Birch (5%) seed production and cavity nesters. Add a winter cutting specification – Deer wintering complex

Proposed Start Date: 10/01/2019

23 32084023-Cut	5.1	4134 - Aspen, Spruce/Fir	Poletimber Well	45	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No Site Condition:**

Prescription Cut all trees except Cedar/Hemlock. No retention due to small size. This stand will have to be cut in the winter because the access road goes through lowland.

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

Acceptable any tree species currently in the overstory is acceptable  
Regen:

Other When writing up the sale use the 2" spec to help get better aspen regeneration.  
Comment:

Proposed Start Date: 10/01/2019

34 32084034-Cut	16.0	4119 - Mixed Northern Hardwoods	Poletimber Well	85	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	Proposal
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**Habitat Cut: No Site Condition:**

Prescription Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock/Cedar. Favor Yellow Birch to keep in the stand. This needs to be cut in the winter because it is part of the deer winter range.

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

Acceptable Any species currently in the overstory is acceptable.  
Regen:

Other There is old orange paint in the woods from when this stand was marked but never cut. I would use a different color paint other than orange to mark. Lots of deer browse on the regeneration. This stand can only be cut if permission is given from landowner to the north.

Wildlife - Favor Yellow Birch (10%) seed production and cavity nesters. Add a winter cutting specification – Deer wintering complex

Proposed Start Date: 10/01/2019



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
36 32084036-Cut	5.1	4113 - R.Maple, Conifer	Poletimber Well	88	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	Proposal

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

Prescription Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock/Cedar. Favor Yellow Birch to keep in the stand. This may need to be cut in a dry summer or winter due to access road.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any species currently in the overstory will be acceptable.

Regen:

Other There are areas that may not need any paint and you just have to walk through them because of variable BA. Permission is needed from the private land owner to the north to get the wood out.

Comment:

Wildlife - Favor Yellow Birch (10%) seed production and cavity nesters.

Proposed Start Date: 10/01/2019

37 32084037-Cut	11.7	4112 - Maple, Beech, Cherry Association	Poletimber Well	85	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, Cedar, and Yellow Birch. Lots of deer browse on the regen. this needs to be cut in the winter because it is part of the deer winter range.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species currently in the overstory is acceptable.

Regen:

Other There is old orange paint in the woods from when this stand was marked but never cut. I would use a different color paint other than orange to mark. When writing up the sale use the regeneration protection spec because there is a lot of advanced regeneration (20ft tall) that you don't want to trample. Lots of deer brows on the regen. Permission is needed from the private land owner to the north to get the wood out.

Comment:

Wildlife - Retain Yellow Birch (5%) seed production and cavity nesters. Add a winter cutting specification – Deer wintering complex

Proposed Start Date: 10/01/2019

40 32084040-Cut	9.6	4113 - R.Maple, Conifer	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, Cedar, Yellow Birch. This may need to be cut in a dry summer or winter due to access road.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species currently in the overstory is acceptable

Regen:

Other There is old orange paint in the woods from when this stand was marked but never cut. I would use a different color paint other than orange to mark. Lots of deer browse on the regeneration. Permission is needed from the private land owner to the north to get the wood out.

Comment:

Wildlife - Retain Yellow Birch (5%) seed production and cavity nesters. – Game Fund Purchased

Proposed Start Date: 10/01/2019



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	32084044-Cut	60.9	4134 - Aspen, Spruce/Fir	Poletimber Well	45	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

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

Prescription Cut all trees except Cedar/ Hemlock Leave 3-10% patch retention in the stand. cut in winter because of deer winter range.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species currently in the overstory is acceptable.

Regen:

Other When writing up the sale use the 2" spec to help get better aspen regeneration.

Comment:

Wildlife - Add a winter cutting specification – Deer wintering complex

Proposed Start Date: 10/01/2019

45	32084045-Cut	1.3	4130 - Aspen	Poletimber Well	45	111- 140	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Cut all trees except Cedar, Hemlock and White Pine. No retention do to small size. cut in the winter because of deer winter range.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any species currently in the overstory is acceptable

Regen:

Other Wildlife - Add a winter cutting specification – Deer wintering complex

Comment:

Proposed Start Date: 10/01/2019

51	32084051-Cut	46.3	4130 - Aspen	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition: Survey Needed**

Prescription Cut all trees except Cedar, Hemlock, Yellow Birch. Leave 3-10% patch retention in the stand. Cut in the winter because of deer winter range.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species currently in the overstory is acceptable

Regen:

Other When writing up the sale use the 2" spec to help get better aspen regeneration. This stand will need survey corners.

Comment:

Wildlife - Retain Yellow Birch (1%) seed production and cavity nesters. Add a winter cutting specification – Deer wintering complex

Proposed Start Date: 10/01/2019

53	32084053-Cut	47.7	4134 - Aspen, Spruce/Fir	Sawtimber Well	43	111- 140	Harvest	Clearcut with Retention	4119 - Mixed Northern Hardwoods	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Cut all trees except Cedar/Hemlock. Leave 3-10% patch retention in the stand. Cut in the winter because of deer winter range.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any species currently in the overstory is acceptable.

Regen:

Other When writing up the sale use the 2" spec to help get better aspen regeneration.

Comment:

Wildlife - Add a winter cutting specification – Deer wintering complex

Proposed Start Date: 10/01/2019

**Total Treatment  
Acreage Proposed: 269.0**

## Report 4 – Site Conditions

Gwinn Mgt. Unit

Peter Holodnick : Examiner

Compartment: 84

Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2I	3A	3H
		With Condition	Not Available				
564	517	<b>46</b>	0	Aspen	<b>46</b>		
797	210	<b>0</b>	587	Cedar		587	
6	6	<b>0</b>	0	Herbaceous Openland			
28	28	<b>0</b>	0	Low-Density Trees			
10	0	<b>0</b>	10	Lowland Conifers		10	
72	11	<b>0</b>	61	Lowland Deciduous		61	
143	82	<b>0</b>	61	Lowland Mixed Forest		61	
72	0	<b>0</b>	72	Lowland Spruce/Fir			72
152	86	<b>65</b>	0	Northern Hardwood	<b>65</b>		
28	28	<b>0</b>	0	Upland Mixed Forest			
12	12	<b>0</b>	0	Upland Spruce/Fir			
2	2	<b>0</b>	0	Water			
1,887	983	<b>112</b>	792	Total Forested Acres	<b>112</b>	720	72
	52%	<b>6%</b>	42%	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	Available	2I: Survey needed	46	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> It would be hard to cut this stand without cutting cedar. This is part of the Deer Wintering range SCA.							
4	Available	2I: Survey needed	65	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gwinn Mgt. Unit

Peter Holodnick : Examiner

Compartment: 84

Year of Entry: 2020

5	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	184	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is a Forest Habitat Core Interior Summer Meadow Creek special conservation area.							
6	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	536	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Forest Habitat Core Interior Summer Meadow Creek conservation area.							
7	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	39	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> There will need to be a lot of cedar cut in order to get into it. This is part of the deer winter range.							

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
<b>Comments</b>				



**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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	Sapling Well	79.9	4	Immature	Good conifer component. 6'-8' sugar maple under in areas. 2014-stand treated winter of 2013-14 by Casperson contract # 016-10-01.
2	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	16.9	45	51-80	Overall mostly small trees less than 3-stick. Stand was mostly cut when adjacent aspen was cut.
3	4110 - Sugar Maple Association	Sawtimber Well	65.3	85	111-140	Thinned 2002 Marvin Nelson permit #029-00-01. Very nice stand. Average BA 140.
4	4130 - Aspen	Poletimber Medium	69.7	51	141-170	
5	4119 - Mixed Northern Hardwoods	Poletimber Well	1.5	85	81-110	Small patch of hardwood along road. Thinned 2004 Marvin Nelson permit #029-00-01. Nice yellow birch in stand. No recent regen. It may need a thinning next entry.
6	6120 - Lowland Cedar	Poletimber Well	17.4	97	51-80	
8	6120 - Lowland Cedar	Poletimber Well	149.5	84	111-140	Forest Habitat Core Interior SCA (Summer Meadow Creek). It is Also part of the deer wintering range.
9	6118 - Lowland Deciduous with Cedar	Poletimber Well	24.5	84	1-50	Forest Habitat Core Interior SCA (Summer Meadow Creek). It is Also part of the deer wintering range.
10	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	10.4	84	171-200	Forest Habitat Core Interior SCA (Summer Meadow Creek). It is Also part of the deer wintering range.
12	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	30.2	75	51-80	Fully stocked but small, young trees. Mix of cedar and ash mostly.
13	4130 - Aspen	Sapling Well	40.7	4	Immature	Mix of A and F. Also patches of hardwood were left in last harvest. 2014-stand treated winter of 2013-14 by Casperson contract # 016-10-01.
14	6118 - Lowland Deciduous with Cedar	Poletimber Well	36.7	91	111-140	Forest Habitat Core Interior SCA (Summer Meadow Creek). It is Also part of the deer wintering range. Patches of pure cedar. Cedar throughout. Undulating ground, not flat. Higher areas more w. birch, balm and ash.
15	6130 - Fir, Aspen, Maple	Poletimber Well	5.0	80	111-140	Fully stocked including understory. Not the best timber quality but potential is there with regeneration. Hardwood regeneration is sugar maple 2+\" dbh. 3 or 4 nice w. pine. Cut next entry with stand 24
16	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	61.3	114	81-110	Forest Habitat Core Interior SCA (Summer Meadow Creek). It is Also part of the deer wintering range. Riparian management are due to stream influence zone. Ash overstory with cedar under. Small trees mostly with scattered larger mostly hardwood. Wet site.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	23.9	88	111-140	Cedar mostly East and NW part of stand. Finger south of hardwood is spruce. Patches of C6 throughout. The topography goes from high to low lots in this stand.
19	42330 - Upland Fir	Poletimber Well	12.5	38	1-50	Semi-open 4-5" dbh F4F2. Upland still seeding in with spruce/fir. Some wet areas.
20	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	6.0	88	51-80	
21	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	11.2	77	51-80	This could probably be cut next entry. I wanted to wait for the trees to get a little more diameter on them.
22	6122 - Black Spruce	Poletimber Medium	33.7	91	51-80	Consider cutting this next entry. I wanted to wait for the trees to have a larger diameter.
23	4134 - Aspen, Spruce/Fir	Poletimber Well	5.1	45	81-110	
24	4112 - Maple, Beech, Cherry Association	Sawtimber Well	42.5	85	81-110	stand cut 02/05 Nelson forest products permit #42-01-01. Good regeneration 3-5' tall. Red and sugar maple. Some older regeneration in gaps. Good quality stand of sugar mostly in center higher ground and red maple on edges. A few basswood and Y. birch. Crowns not closed.
25	4130 - Aspen	Sapling Well	101.9	29	Immature	
26	6120 - Lowland Cedar	Poletimber Medium	18.3	83	1-50	Poorly stocked over thick lowland brush. Lots of tag alder
27	6120 - Lowland Cedar	Poletimber Well	13.8	100	81-110	Mostly a cedar stand but a mix. Not as low as most pure cedar stands but still lowland.
29	6120 - Lowland Cedar	Poletimber Medium	16.6	98	51-80	
30	4319 - Mixed Upland Forest	Sapling Medium	27.5	30	1-50	F3 mostly but some areas still semi-open. till seeding is so tree sizes variable.
32	6120 - Lowland Cedar	Poletimber Well	437.5	108	81-110	Forest Habitat Core Interior SCA (Summer Meadow Creek). It is Also part of the deer wintering range. Put in special management area to protect larger intact lowland forest for deeryard potential and other attributes. Interior of stand is mostly small 1-2 stick cedar. Some gaps with w. birch and ash. some small cedar regeneration. Smaller trees overall and a young cedar stand. Some areas C3 3-4" dbh.
33	6120 - Lowland Cedar	Poletimber Well	50.3	83	51-80	SCA. deer yard special management.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	4119 - Mixed Northern Hardwoods	Poletimber Well	16.0	85	111-140	Thinned 1989. Good quality stand. Crowns closed. ***Stand set-up and sold as "Kauppila Access Hardwoods" #012-10-1 (12 acs); sale was never cut and paint is too old to re-offer as new sale.
36	4113 - R.Maple, Conifer	Poletimber Well	5.1	88	111-140	Poor timber quality red maple. Wet crossing to get to stand.
37	4112 - Maple, Beech, Cherry Association	Poletimber Well	11.7	85	111-140	Good regeneration 10-15' tall. Would be a light thinning, mostly to open existing gaps and thin crowded areas. ***Stand set-up and sold as "Kauppila Access Hardwoods" #012-10-1 (6 acs); sale was never cut and paint is too old to re-offer as new sale.
38	6122 - Black Spruce	Poletimber Well	38.7	89	51-80	
39	4130 - Aspen	Sapling Well	110.2	24	Immature	Cut permit 33-90-01 Marvin Nelson. 2-4" dbh well-stocked mostly. Aspen, w. birch, balm, and some conifer. Some areas 1 or 2 acres non-stocked. P3 or P1 areas especially swamp edge.
40	4113 - R.Maple, Conifer	Sawtimber Well	9.6	85	111-140	Mostly red maple. Not the best quality but good for red maple. Larger sawlogs. Some cedar and hemlock. Hemlock is not healthy. Good red maple regeneration in gaps and patches. ***Stand set-up and sold as "Kauppila Access Hardwoods" #012-10-1 (9 acs); sale was never cut and paint is too old to re-offer as new sale. Hold till next entry now.
41	6120 - Lowland Cedar	Poletimber Well	68.2	101	81-110	smaller cedar. Some thick alder.
42	42360 - Upland Cedar	Poletimber Well	22.4	106	141-170	
43	6120 - Lowland Cedar	Poletimber Well	3.4	101	81-110	Small patch of mostly small cedar left in clearcut area.
44	4134 - Aspen, Spruce/Fir	Poletimber Well	60.9	45	111-140	Approximately half of this original stand (stand 1) was treated to fulfill extra aspen acreage as aged upon at the 2011 cmpt review.
45	4130 - Aspen	Poletimber Well	1.3	45	111-140	A6 good site and growth. 4-stick average, well-stocked. Good conifer component. 6'-8' sugar maple under in areas. Some areas 5-stick, a few areas smaller. 2009 Approximately half of this original stand (stand 1) was treated to fulfill extra aspen acreage as aged upon at the 2011 cmpt review.
51	4130 - Aspen	Poletimber Well	46.3	45	81-110	2009 Approximately half of this original stand (stand 1) was treated to fulfill extra aspen acreage as aged upon at the 2011 cmpt review.
53	4134 - Aspen, Spruce/Fir	Sawtimber Well	47.7	43	111-140	Mix of A and F. 2009 Approximately half of this original stand (stand 13) will be treated to fulfill extra aspen acreage as aged upon at the 2011 cmpt review.



Stand	Cover Type	Acres	Managed Site	General Comments:
7	500 - Water	2.4	No	old active beaver pond filled with water. Heron rookery was here but is gone now.
18	330 - Low-Density Trees	27.7	No	Mostly lowland brush with drained beaver ponds with herbaceous vegetation. 3-4 acres are N. Some areas are Q4. A couple of small upland islands contain small cedar and other conifers.
401	3102 - Grass	1.1	No	Tordoned 7-1988.
402	3102 - Grass	1.1	No	CREATED 1993
403	3102 - Grass	1.6	No	CREATED 1993
404	3102 - Grass	2.1	No	CREATED 1993