



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32085

Entry Year 2018

Acreage: 1,748

County Marquette

Management Area: Dead Horse Moraines

Revision Date: 2016-08-09

Stand Examiner: Ben Travis

Legal Description:

T43N, R24W, Sections 10, 11, and 12.

Identified Planning Goals:

Planning will focus on integrated timber management, forest recreation, fisheries management, and wildlife habitat management. Increasing public access to state lands is a high priority. Forest road monitoring/maintenance, trespass issues, forest regeneration, forest health, forest fire control, BMPs associated with watershed issues, and any resource damage incidents are all critical assessments considered during the forest cover type mapping, forest stand exams/inventory, collaborative development of proposed forest treatments, public comment documentation, and sustainable forest management planning processes.

Soil and topography:

Soils are predominantly very poorly drained organic soils, poorly drained loamy soils, and well drained loams.

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

Compartment within very large block of state ownership. 160 acres of private ownership within compartment.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

No major rivers or streams are present in this compartment. Drainage is limited to small un-named creeks and large forested and non-forested wetlands.

Wildlife Habitat Considerations:

Compartment 85 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); coarse 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

Sections 2, 10-13, & 15, T43N R24W, Marquette County
Surface sediments consist of medium-textured till. The majority of the compartment is identified as wetlands. There is insufficient data to determine the glacial drift thickness (<50 feet). The Ordovician Black River Formation subcrops below the glacial drift. The Black River has been quarried for dolostone in the UP. A sand/gravel pit is located less than three miles to the north, but potential appears to be limited within the compartment due to shallow bedrock and numerous wetlands in the area. There is no history of mining or mineral leasing in this area. There has been no economic oil and gas production in the UP.

Vehicle Access:

Access is by Hamilton Homestead Road, a poor quality forest road.

Survey Needs:

Will need some survey monuments placed within Section 10 in order to delineate timber sale lines.

Recreational Facilities and Opportunities:

There are no formal recreational facilities within this compartment. Hunting, trapping, ORV use, and snowmobiling are primary recreational pursuits.

Fire Protection:

The compartment has a low risk for wildfires.

Additional Compartment Information:

The following reports from the Inventory are attached:

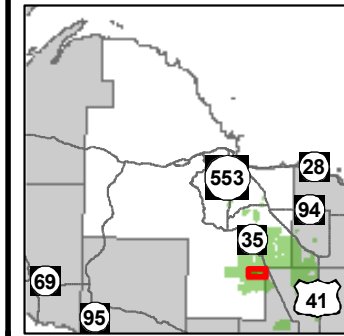
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

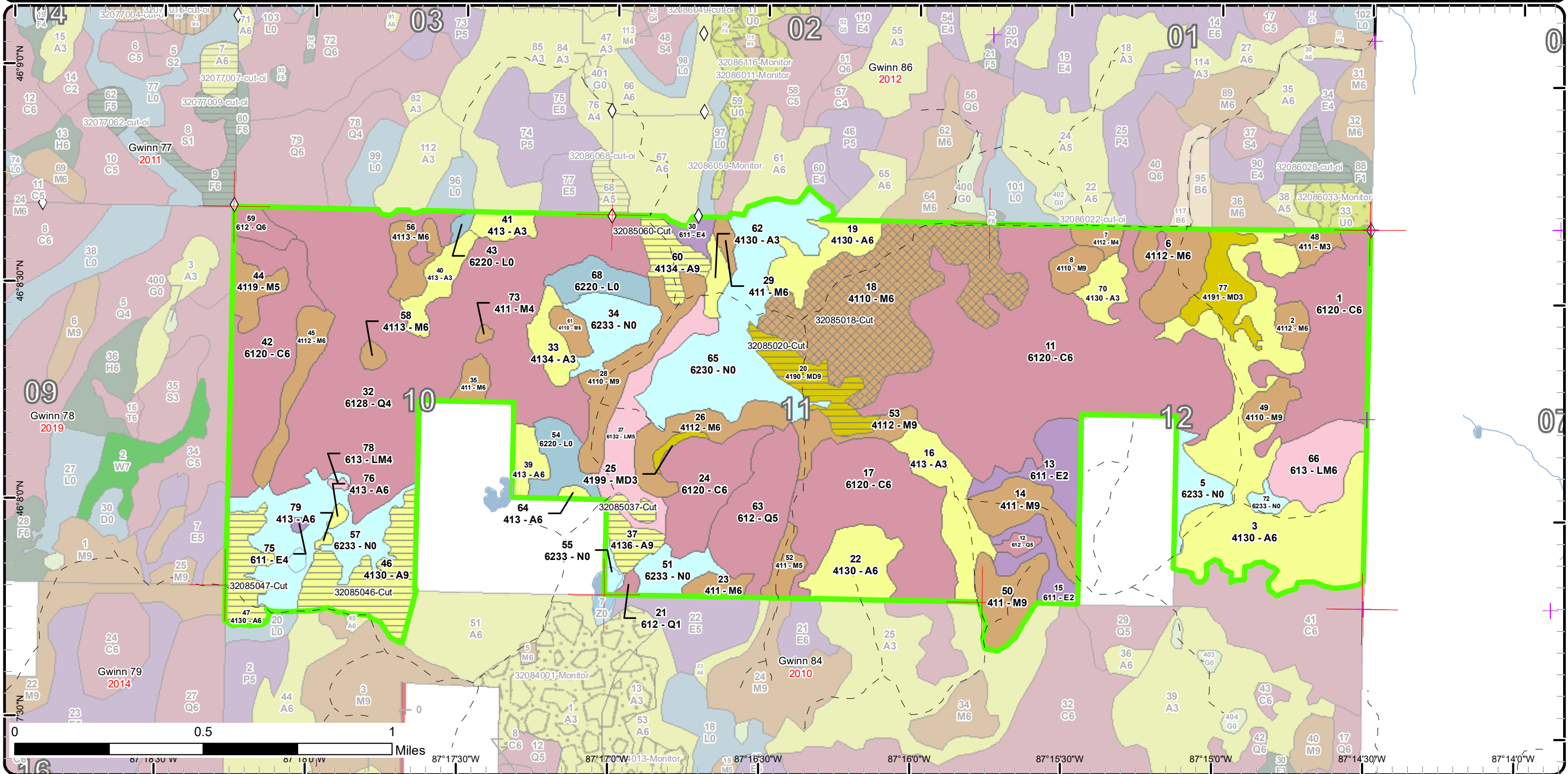
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 85
 T43N, R24W, Sec: 10, 11, 12
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2018
 Acres: 1748 GIS Calculated
 Examiner: Ben Travis
 Map Revised: 2/8/2017
 Map Phase: Post-Review



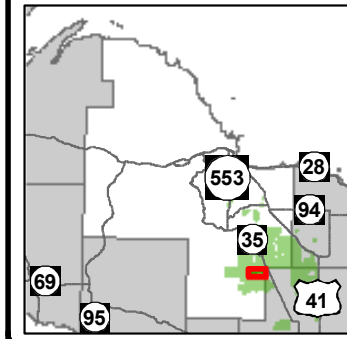
- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Paved Roads
- Poor Dirt Roads
- Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes



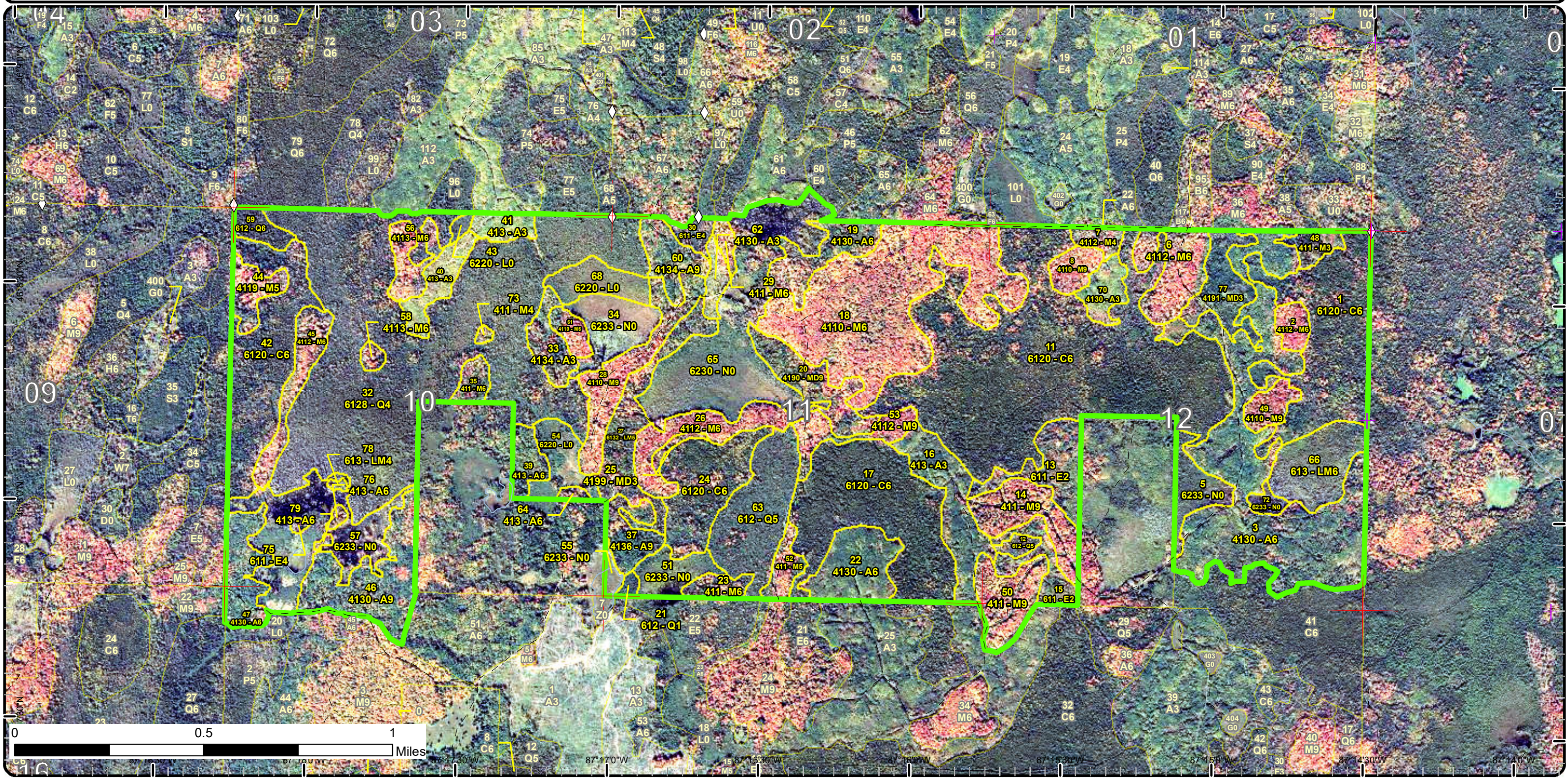
0 0.5 1 Miles
 87°17'30"W 87°17'00"W 87°16'30"W 87°16'00"W 87°15'30"W 87°15'00"W 87°14'30"W 87°14'00"W

Stand Boundary Map

Compartment: 85
 T43N, R24W, Sec: 10, 11, 12
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2018
 Acres: 1748 GIS Calculated
 Examiner: Ben Travis
 Map Revised: 2/8/2017
 Map Phase: Post-Review

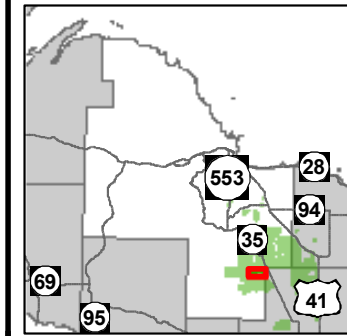


- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Paved Roads
- - Poor Dirt Roads
- Rivers
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub
- 623 - Emergent Wetland

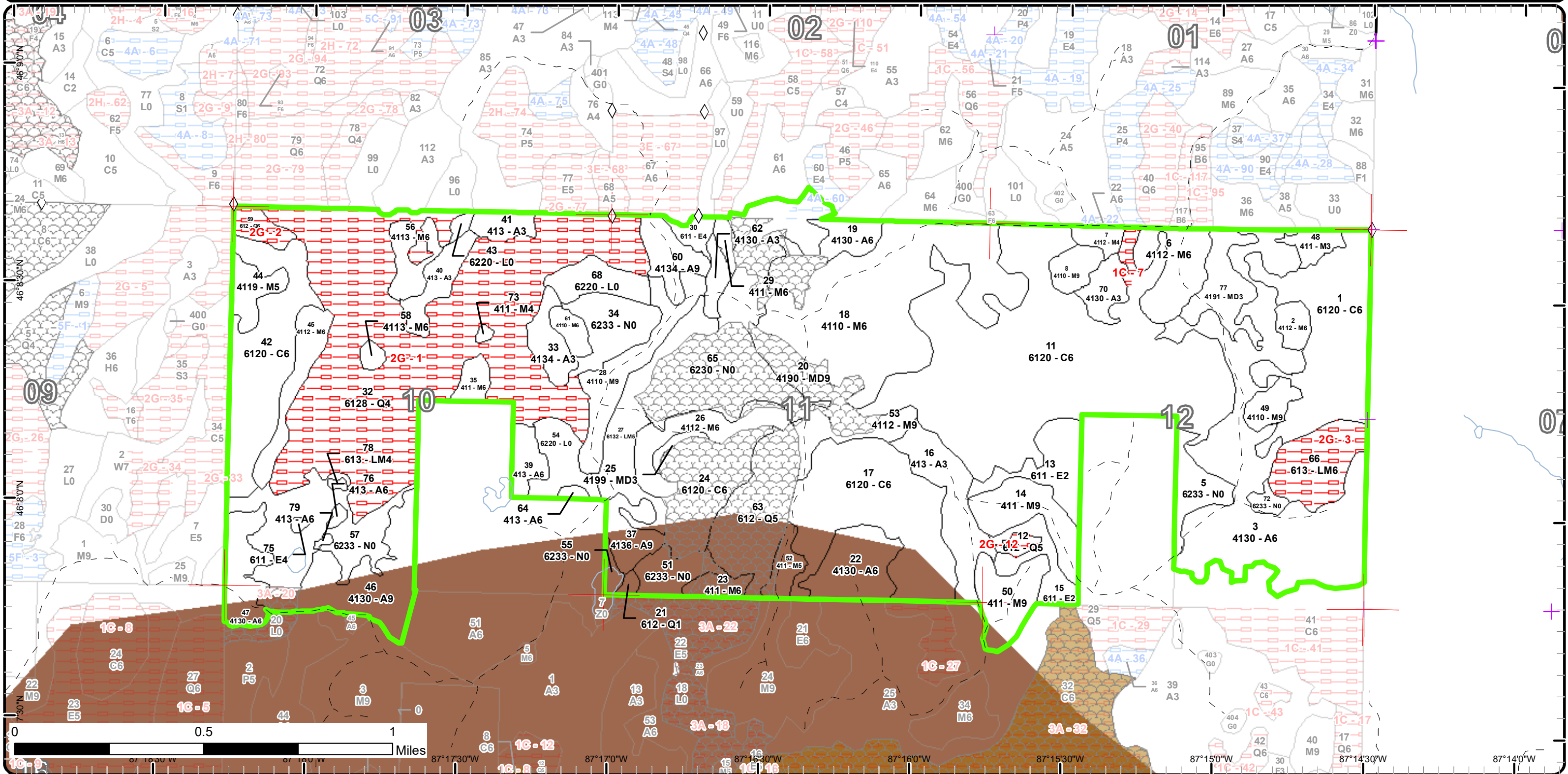


Special Conservation Areas & Site Conditions Map

Compartment: 85
 T43N, R24W, Sec: 10, 11, 12
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2018
 Acres: 1748 GIS Calculated
 Examiner: Ben Travis
 Map Revised: 2/8/2017
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Paved Roads
- - - Poor Dirt Roads
- Rivers
- Compartment Boundary
- - - Unavailable
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Forest Habitat Core Interior
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit
Ben Travis : Examiner

Compartment 85 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
Aspen	0	18	17	63	130	22	68	0	0	0	0	0	0	0	0	0	0	14	331
Cedar	0	0	0	0	0	0	0	0	0	111	54	276	0	0	0	0	0	0	441
Lowland Conifers	0	0	0	0	2	0	0	0	39	253	0	0	0	0	0	3	0	0	297
Lowland Deciduous	0	0	0	34	0	0	0	0	5	1	0	0	0	0	0	0	0	0	40
Lowland Mixed Forest	0	0	0	0	0	1	0	0	29	0	0	26	0	0	0	0	0	0	56
Lowland Shrub	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Marsh	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180
Mixed Upland Deciduous	0	0	0	0	21	0	0	0	0	21	0	0	0	0	0	0	0	0	42
Northern Hardwood	0	0	6	0	0	0	0	0	3	169	0	0	0	0	0	0	0	154	331
Total	210	18	23	97	153	23	68	0	76	555	54	302	0	0	0	3	0	168	1748



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 85

Total Compartment Acres: 1,748

Commercial Harvest - 209
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	82	0	0	0	0	0	0	0	0	82
Mixed Upland Deciduous	21	0	0	0	0	0	0	0	0	21
Northern Hardwood	0	106	0	0	0	0	0	0	0	106
Total	103	106	0	0	0	0	0	0	0	209

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	209	0	0	0	0	0	0	0	0	209
Next Step	0	0	0	0	0	0	209	0	0	209
Total	209	0	0	0	0	0	209	0	0	418



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
18	32085018-Cut	106.2	4110 - Sugar Maple Association	Poletimber Well	80	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Individual tree selection will be implemented to improve spacing, timber quality, habitat characteristics, product removal, and forest health. Trees with a high risk of structural failure will be removed. Release pockets of desirable advanced regeneration. Target residual basal area should range between 70 and 90 square feet. Maintain and/or promote overstory diversity.
Specs: Retain cedar, hemlock, and white pine. Conserve basswood, yellow birch, and cherry in overstory.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Sugar maple, red maple, hemlock, basswood, birch, fir, and spruce.

Regen:

Other Some vernal areas to protect.

Comment:

Proposed Start Date: 10/01/2017

20	32085020-Cut	21.1	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	87	111- 140	Harvest	Clearcut with Retention	4190 - Mixed Upland Deciduous with Cedar	Even-Aged	Draft Field Boundary
----	--------------	------	--	-------------------	----	-------------	---------	----------------------------	---	-----------	-------------------------

Habitat Cut: No**Site Condition:**

Prescription Harvest paper birch, aspen, balsam poplar, maple, fir, and spruce. Exclude patches of more densely stocked cedar where logging operations would be impractical. May have to cut some random cedar for logging equipment operability, but will leave majority of it. Leave any hemlock or yellow birch.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Cedar, hemlock, pine, maple, balsam poplar, aspen, fir, and spruce.

Regen:

Other Road leading into sale has saturated/ heavy soils. Enough lowland portions to require winter harvest.

Comment:

Proposed Start Date: 10/01/2016

37	32085037-Cut	12.8	4136 - Aspen, Mixed Conifer	Sawtimber Well	53	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
----	--------------	------	--------------------------------	-------------------	----	--------	---------	----------------------------	-------------	-----------	-------------------------

Habitat Cut: No**Site Condition:**

Prescription Harvest all aspen, balsam poplar, paper birch, maple, fir, spruce, and ash. Leave any elm, cedar, hemlock, yellow birch, and white pine. Retain some patches of hardwood if present, and/or some scattered hardwood trees.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, balsam poplar, birch, maple, fir, spruce, and black cherry.

Regen:

Other Buffer vernal ponds. May need temporary/permanent culvert and fill to get off Hamilton Homestead R (no stream, just low spot). Need surveying support.

Comment: Apply timber sale boundary set-back of 2 chains on north portion of stand to meet Wildlife division guidance for unique wildlife occurrence. No cutting allowed between April 1 and August 15th due to wildlife restriction.

Proposed Start Date: 10/01/2016

46	32085046-Cut	36.7	4130 - Aspen	Sawtimber Well	54	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
----	--------------	------	--------------	-------------------	----	--------	---------	----------------------------	-------------	-----------	-------------------------

Habitat Cut: No**Site Condition:**

Prescription Harvest all aspen, black cherry, maple, basswood, fir, and spruce. Retain any elm, birch, white pine, cedar, and hemlock. Mark to leave some scattered basswood and some pockets that are predominantly hardwood. Use patch retention.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, balsam poplar, fir, spruce, birch, basswood, and maple.

Regen:

Other Buffer linear vernal slough passing through stand. Will need survey support. Retention should include some large aspen for cavity nesters and future drumming logs.

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
47	32085047-Cut	18.4	4130 - Aspen	Poletimber Well	53	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Harvest all aspen, maple, fir, spruce, and balsam poplar. Use patch retention and include some basswood within these. Also may leave any patches of higher maple stocking. Leave any white pine, red pine, cedar, elm, yellow birch, white birch, black cherry, and hemlock.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, birch, basswood, fir, spruce, pine, and black cherry.

Regen:

Other Retention should include some large aspen for cavity nesters and providing for future drumming logs.

Comment:

Proposed Start Date: 10/01/2017

60	32085060-Cut	13.7	4134 - Aspen, Spruce/Fir	Sawtimber Well	54	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
----	--------------	------	-----------------------------	-------------------	----	--------	---------	----------------------------	-------------	-----------	-------------------------

Habitat Cut: No**Site Condition:**

Prescription Harvest aspen, maple, paper birch, balsam poplar, fir, and spruce. Retain any yellow birch, hemlock, cedar, white pine, and elm. May retain some patches of purer hardwoods and/or some scattered hardwoods.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, balsam poplar, maple, birch, fir, and spruce.

Regen:

Other Will want to put in timber sale lines during snow-free period to be able to buffer vernal ponds. Closed road leading into sale is saturated, so may require frozen conditions to handle logging equipment.

Proposed Start Date: 10/01/2016

**Total Treatment
Acreage Proposed: 208.9**

Report 4 – Site Conditions

Gwinn Mgt. Unit
Ben Travis : Examiner

Compartment: 85
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		4A	1C	2G	3A
331	330	0	0	Aspen		0		0
440	437	0	3	Cedar		3		
298	41	0	256	Lowland Conifers			256	
39	39	0	0	Lowland Deciduous				
56	30	0	26	Lowland Mixed Forest			26	
30	30	0	0	Lowland Shrub				
180	172	4	4	Marsh	4			4
42	42	0	0	Mixed Upland Deciduous				
332	332	0	0	Northern Hardwood				
1,748	1,454	4	290	Total Forested Acres	4	4	283	4
	83%	0%	17%	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	2G: Too wet (sensitive soils, does not include access issues)	246	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Ben Travis : Examiner

Compartment: 85
Year of Entry: 2018

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	1C: Other dept or div proc/practices	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
----------	--------------	-------------	----------------	-------

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	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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Poletimber Well	66.9	109	141-170	Good quality cedar stand. Mixed hardwood within the stand consists of white birch, red maple, and yellow birch. Regeneration is a mix of cedar and fir. Tag alder.
2	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.1	80	81-110	Fair quality hardwood thinned in 1982, and again under permit # 025-98-01.
3	4130 - Aspen	Poletimber Well	121.1	35	51-80	There is a decent component of white birch, especially along the access road and old skid trails. Balm predominates in the wetter areas with an F2 fringed along stand 4. Small patches of 2 to 4 foot tall cedar regen along road. Aspen 2 to 2.5 stick tall. Tamarack and white spruce saplings found. Infrequent sugar maple poles.
6	4112 - Maple, Beech, Cherry Association	Poletimber Well	21.8	80	81-110	Fair to good quality mixed hardwoods. Yellow birch and black cherry poles found. Thinned under permit # 025-98-01.
7	4112 - Maple, Beech, Cherry Association	Poletimber Poor	5.0	80	51-80	Treated under permit # 025-98-01. Large canopy gaps.
8	4110 - Sugar Maple Association	Sawtimber Well	8.2	80	81-110	Fair quality hardwoods along Hamilton Homestead Rd. Hilly stand. Vernal ponds. Scarce cedar in overstory. Club-mosses and Canada mayflower are predominant groundcover. Treated under permit # 025-98-01.
11	6120 - Lowland Cedar	Poletimber Well	208.6	102	111-140	Trembling aspen, white birch, red maple, yellow birch and black ash are infrequent overstory associates. Red maple and white birch saplings present.
12	612 - Lowland Coniferous Forest	Poletimber Medium	3.0	147	51-80	OIPC - FMD: A small island of low, wet swamp conifers. Mixed hardwoods are a blend of soft maple, white birch, and yellow birch.
13	611 - Lowland Deciduous Forest	Sapling Medium	20.3	27	Immature	OIPC - FMD: P2A1F1. Scattered pure aspen clones, willow in the wetter areas.
14	411 - Northern Hardwood	Sawtimber Well	22.2	80	81-110	OIPC - FMD: Good quality sugar maple stand. There are a few basswood stems in the northwest portion of the stand, but no yellow birch or conifer component. Maple regeneration is very good from the past thinning in 1988. Selection harvest in summer of 2010 under contract # 022-08-01.
15	611 - Lowland Deciduous Forest	Sapling Medium	13.2	27	Immature	OIPC - FMD: P2A1F1. Scattered pure aspen clones, willow in the wetter areas.
16	413 - Aspen	Sapling Well	27.5	27	Immature	
17	6120 - Lowland Cedar	Poletimber Well	75.9	87	111-140	OIPC - FMD: Q6E4, VARIETY OF STOCKING.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4110 - Sugar Maple Association	Poletimber Well	106.2	80	81-110	Good quality hardwood stand. Thinned in 1981 and again in 2001, permit # 24-98-01. Cedar, hemlock and yellow birch are infrequent overstory associates. Few vernal depressions. Fir saplings found to east. Sparse leatherwood. Trout lily and spring beauties are predominant groundcover.
19	4130 - Aspen	Poletimber Well	18.3	40	81-110	Vernal ponds. 3 to 4 stick aspen. White spruce, white birch, and fir are infrequent overstory associates.
20	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	21.1	87	111-140	Two-track is mucky/soft this time of year. Cedar distribution is patchy. Cedar crowns vigorous. Sparse cedar and hemlock seedlings found. Yellow birch and hemlock are overstory members.
21	612 - Lowland Coniferous Forest	Sapling Poor	1.8	34	Immature	
22	4130 - Aspen	Poletimber Well	24.0	28	1-50	
23	411 - Northern Hardwood	Poletimber Well	6.2	180	51-80	Poor quality soft maple island surrounded by lowlands. Dense fir understory.
24	6120 - Lowland Cedar	Poletimber Well	34.7	83	111-140	Cedar swamp with scattered white birch and soft maple. Mead Deer yard.
25	4199 - Other Mixed Upland Deciduous	Sapling Well	2.3	31	Immature	Looks like an old wildlife cutting that occurred in 1986.
26	4112 - Maple, Beech, Cherry Association	Poletimber Well	20.8	80	81-110	Southern portion shifts to more overstory soft maple. Occasional black cherry, white birch, and yellow birch within canopy. White birch, white spruce and fir saplings present. Stand harvested in 2010 under contract # 005-08-01.
27	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	28.8	77	111-140	Stream within stand.
28	4110 - Sugar Maple Association	Sawtimber Well	25.9	80	81-110	Fairly nice but variable hardwood stand split lengthwise by Hamilton Homestead Road. The "center" of the stand is of very good quality with heavy hard maple regeneration, especially in gaps. The northern and southern portions of the stand as well as the edges are of poorer site quality and the regen. here tends to be more of an F2. White birch, white spruce, hemlock, and trembling aspen are uncommon overstory associates. White spruce and hemlock saplings found. Stand harvested in 2010, under contract # 005-08-01. Dispersed camp site for hunters at south tip of stand.
29	411 - Northern Hardwood	Poletimber Well	3.4	79	51-80	OIPC - FMD: Poor quality hardwood knob with occasional yellow birch and scattered aspen. Stand harvested in 2010 by Triest under contract # 005-08-01.
30	611 - Lowland Deciduous Forest	Poletimber Poor	4.9	77	1-50	OIPC - FMD: E4E3 - Mostly black ash with scattered white birch and fir. 4-6" dbh.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	246.4	87	1-50	Areas with vey low stocking and heavy brush.
33	4134 - Aspen, Spruce/Fir	Sapling Well	11.0	27	Immature	Small patches of pure B3. Some vernal ponds. Some small clumps of aspen and soft maple poles. White spruce, red maple, sugar maple, and black cherry saplings present.
35	411 - Northern Hardwood	Poletimber Well	5.9	87	81-110	
37	4136 - Aspen, Mixed Conifer	Sawtimber Well	12.8	53	81-110	Stand supports higher proportion of aspen to south on hill.
39	413 - Aspen	Poletimber Well	8.5	37	81-110	
40	413 - Aspen	Sapling Well	12.3	7	Immature	OIPC - FMD: Fairly high ridge. Vehicle access is from the north thru compartment 86, and limited to the winter months. Stand harvested in 2010 under contract # 005-08-01. Stand is fully stocked A3.
41	413 - Aspen	Sapling Well	7.0	13	Immature	OIPC - FMD: Aspen regen doing well. Cut in 2004 under permit # 18-02-01.
42	6120 - Lowland Cedar	Poletimber Well	54.2	99	81-110	Black ash and lowland conifers present in canopy.
44	4119 - Mixed Northern Hardwoods	Poletimber Medium	10.3	82	1-50	Remote and isolated by wetlands.
45	4112 - Maple, Beech, Cherry Association	Poletimber Well	16.1	80	81-110	Yellow birch, white spruce, and upland cedar are infrequent overstory associates. White birch saplings present.
46	4130 - Aspen	Sawtimber Well	36.7	54	81-110	Aspen tipping and also windfall mortality. Red maple, elm, fir, and yellow birch are overstory associates. 4 to 5 stick aspen. Long linear vernal pond.
47	4130 - Aspen	Poletimber Well	18.4	53	81-110	4 to 5 stick aspen. White spruce, white birch, black cherry, balsam poplar, and yellow birch are overstory members. Red maple, black spruce, and white spruce saplings present.
48	411 - Northern Hardwood	Sapling Well	6.3	18	Immature	Stand is about an equal mix of heavy soft maple and aspen regeneration with scattered cedar poles above. Treated under permit # 25-98-01.
49	4110 - Sugar Maple Association	Sawtimber Well	7.9	80	81-110	High quality sugar maple pole stand. Occasional basswood scattered in the stand. Heavier stocking of soft maple and fir understory in the northeast. Excellent sugar maple regeneration. Many canopy gaps. Cut summer of 2010 under contract # 022-08-01.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
50	411 - Northern Hardwood	Sawtimber Well	20.0	80	81-110	OIPC - FMD: Thinned in 1988. Fairly high quality sugar maple stand. Good existing maple regeneration from 10' and up, 2" dbh sugar maple saplings. Selection harvest during summer of 2010. Not ready for thinning. Crowns not closed, regen exploiting canopy gaps.
52	411 - Northern Hardwood	Poletimber Medium	7.6	180	51-80	Poor timber quality hardwood,s with small fir growing on a narrow esker between swamps.
53	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.8	80	81-110	Select cut in 2001 under permit # 24-98-01. White spruce, white birch and trembling aspen are infrequent overstory associates. Groundcover predominantly Canada mayflower and club-moss.
56	4113 - R.Maple, Conifer	Poletimber Well	11.3	180	81-110	OIPC - FMD: Former F stand converted to soft maple. Occasional 2 stick cedar poles.
58	4113 - R.Maple, Conifer	Poletimber Well	2.5	80	81-110	A very small island of hardwood surrounded by large swamp.
59	612 - Lowland Coniferous Forest	Poletimber Well	7.0	87	81-110	
60	4134 - Aspen, Spruce/Fir	Sawtimber Well	13.7	54	81-110	4 to 5 stick aspen. White birch saplings present. Occasional black cherry poles. Small vernal pools.
61	4110 - Sugar Maple Association	Poletimber Well	5.7	80	81-110	Very good quality sugar maple stand. Bigtooth aspen, white birch, and fir uncommon in canopy. Stand harvested in 2010 under contract # 005-08-01.
62	4130 - Aspen	Sapling Well	5.9	7	Immature	Stand fully stocked. Selected white birch and white spruce retained. Left all yellow birch. Harvested under permit # 005-08-01.
63	612 - Lowland Coniferous Forest	Poletimber Medium	39.4	77	51-80	OIPC - FMD: Mostly black ash with scattered cedar and black spruce. 5"-7" dbh.
64	413 - Aspen	Poletimber Well	1.7	40	81-110	
66	613 - Lowland Mixed Forest	Poletimber Well	26.1	109	81-110	
70	4130 - Aspen	Sapling Well	9.6	17	Immature	Primarily fully-stocked, with a few wet pockets within the stand with only moderate regeneration. Sparse cedar poles.
73	411 - Northern Hardwood	Poletimber Poor	1.0	87	51-80	
75	611 - Lowland Deciduous Forest	Poletimber Poor	0.9	87	51-80	
76	413 - Aspen	Poletimber Well	1.4	42	81-110	

S
t
a
n
d

Gwinn Mgt. Unit

Report 7 – Forested Stands

Compartment: 85
Year of Entry: 2018



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
77	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	18.8	35	51-80	Small patches of 2 to 6 foot tall cedar along road.
78	613 - Lowland Mixed Forest	Poletimber Poor	0.8	46	1-50	OPIC - FMD: E4Q4 Stunted white birch and black ash over 3'-6' black spruce and tag alder. Occasional cedar, tamarack and black spruce pole.
79	413 - Aspen	Poletimber Well	0.7	42	81-110	



Stand	Cover Type	Acres	Managed Site	General Comments:
5	6233 - Wet Meadow	12.9	No	Dead standing cedar. Some lowland brush to north. Ponding occurs seasonally to east.
34	6233 - Wet Meadow	20.1	No	
43	6220 - Alder/willow	1.9	No	
51	6233 - Wet Meadow	12.8	No	
54	6220 - Alder/willow	14.6	No	OPIC - FMD: Old beaver flooding.
55	6233 - Wet Meadow	2.9	No	
57	6233 - Wet Meadow	49.4	No	Many areas flooded. Standing dead timber in many places.
65	6230 - Cattail	78.3	No	Include as biodiversity area to provide riparian corridor.
68	6220 - Alder/willow	13.7	No	
72	6233 - Wet Meadow	3.4	No	