



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32016

Entry Year 2017

Acreage: 1,851

County Marquette

Management Area: Dead Horse Moraines

Revision Date: 2015-07-06

Stand Examiner: Theresa Sysol

Legal Description:

T45N R24W Section(s) 25, 26, 34, 36

Identified Planning Goals:

To maintain and enhance the sustainability of the forest and its associated communities.

Soil and topography:

Level swamps and wetland drainages with upland ridges.

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

Mostly State owned swampland with a few hardwood ridges. Private hunting camp lands within Section 35,36 and industrial land within Section 25 both are being actively managed for timber resources. Isolated private camp(s) within Section 26, 22 mainly for recreational use.

Unique Natural Features:

Much of compartment falls within the Sawmill Creek Complex PLU.

Archeological, Historical, and Cultural Features:

None identified

Special Management Designations or Considerations:

Potential for eagle, osprey, and great blue heron rookery. Potential for red-shouldered hawk and northern goshawk.

Potential for moose and wolf.

Potential for calypso orchid, rayless mountain ragwort, and ram's head lady's-slipper in conifer swamps. Potential for climbing fumitory, goblin fern, large toothwort, ginseng, and showy orchis in mature hardwoods.

Watershed and Fisheries Considerations:

Compartment 16 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.

Wildlife Habitat Considerations:

Compartment 16 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, glacial outwash sand and gravel and postglacial alluvium, and peat and muck. The glacial drift thickness varies between 10 and 50 feet. The Cambrian Trempealeau Formation and Munising Group (and possibly some Ordovician Prairie du Chien) subcrop below the glacial drift. The Trempealeau could be used for stone. A gravel pit is located less than ½ mile to the south in Section 3, T44N R24W, and there may be potential on the uplands. Abandoned iron mines are located four miles to the west. This State land has not been previously leased for metallic mineral exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Limited access, due to surrounding private ownerships, although various two-tracks runs throughout. The Stack Grade, a poor dirt State-maintained road, provides access from the south via private lands.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Limited, due to location and access.

Fire Protection:

Low fire risk area.

Additional Compartment Information:

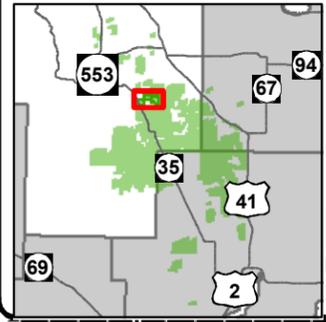
The following reports from the Inventory are attached:

- 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:

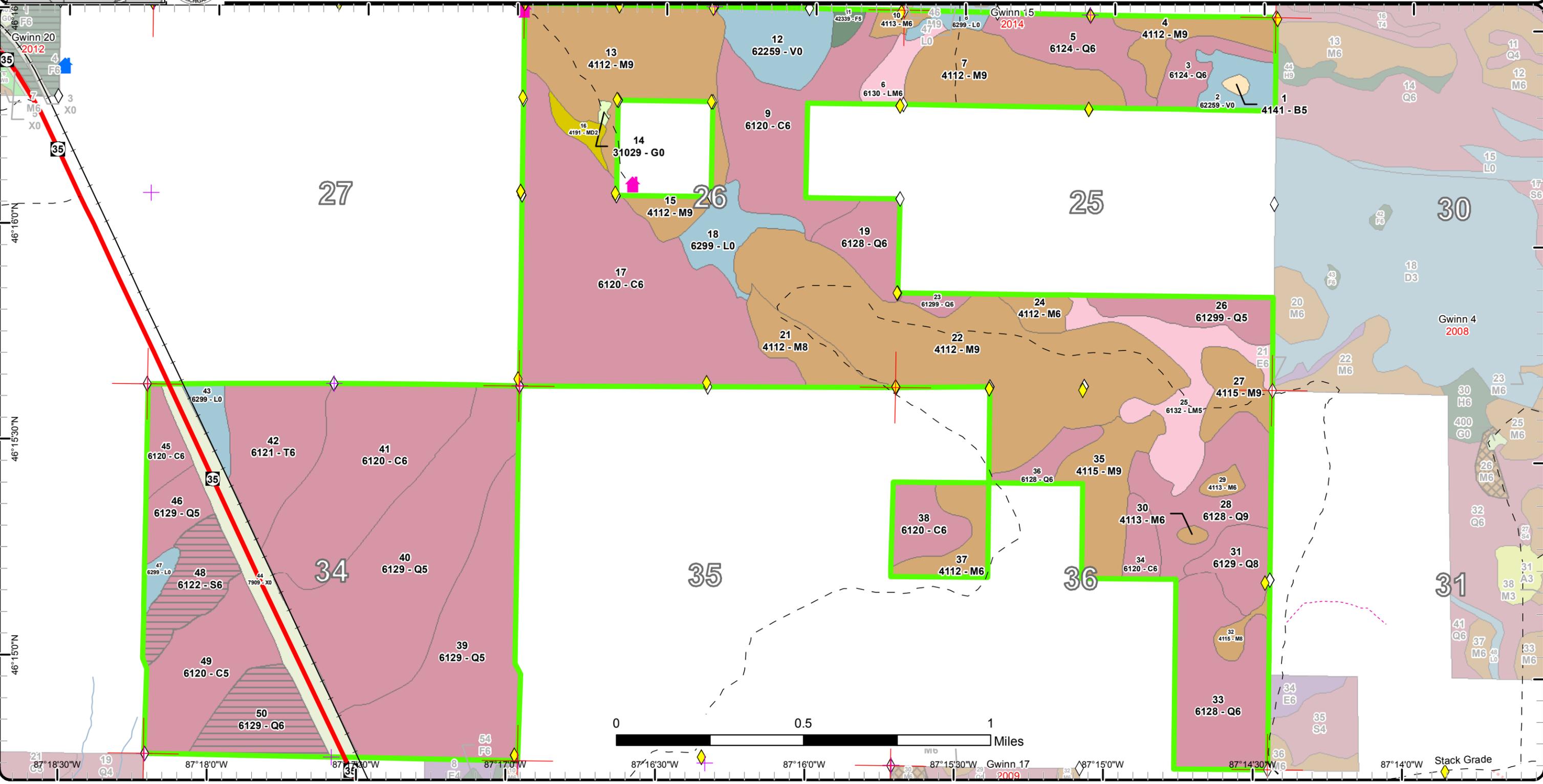
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments

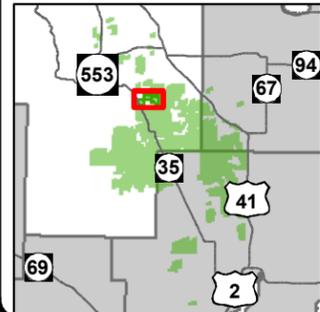


Compartment: 16
 T45N,R24W, Sec. 25, 26, 34, 35, 36
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2017
 Acres: 1851 GIS Calculated
 Examiner: Theresa Sysol
 Map Revised: 7/30/2015
 Map Phase: Pre-Review

- + Remonumented Section Corners
 - ◆ Survey Grade GPS Corners
 - ◇ Field Grade GPS Corners
 - Miris Corners
 - Highway
 - - Poor Dirt Roads
 - - - Trail (Non-Recreation)
 - - - Closed Roads
 - X Gate
 - + Railroads
 - Rivers
-
- ▭ Clearcut (w/Reserves)
 - ▭ Forest Covertype
 - ▭ 411 - Northern Hardwood
 - ▭ 414 - Other Upland Deciduous
 - ▭ 419 - Mixed Upland Deciduous
 - ▭ 423 - Other Upland Conifers
 - ▭ 612 - Lowland Coniferous Forest
 - ▭ 613 - Lowland Mixed Forest
 - ▭ Non-Forest Covertype
 - ▭ 310 - Herbaceous Openland
-
- ▭ 622 - Lowland Shrub
 - ▭ 790 - Other Bare/Sparsely Vegetated

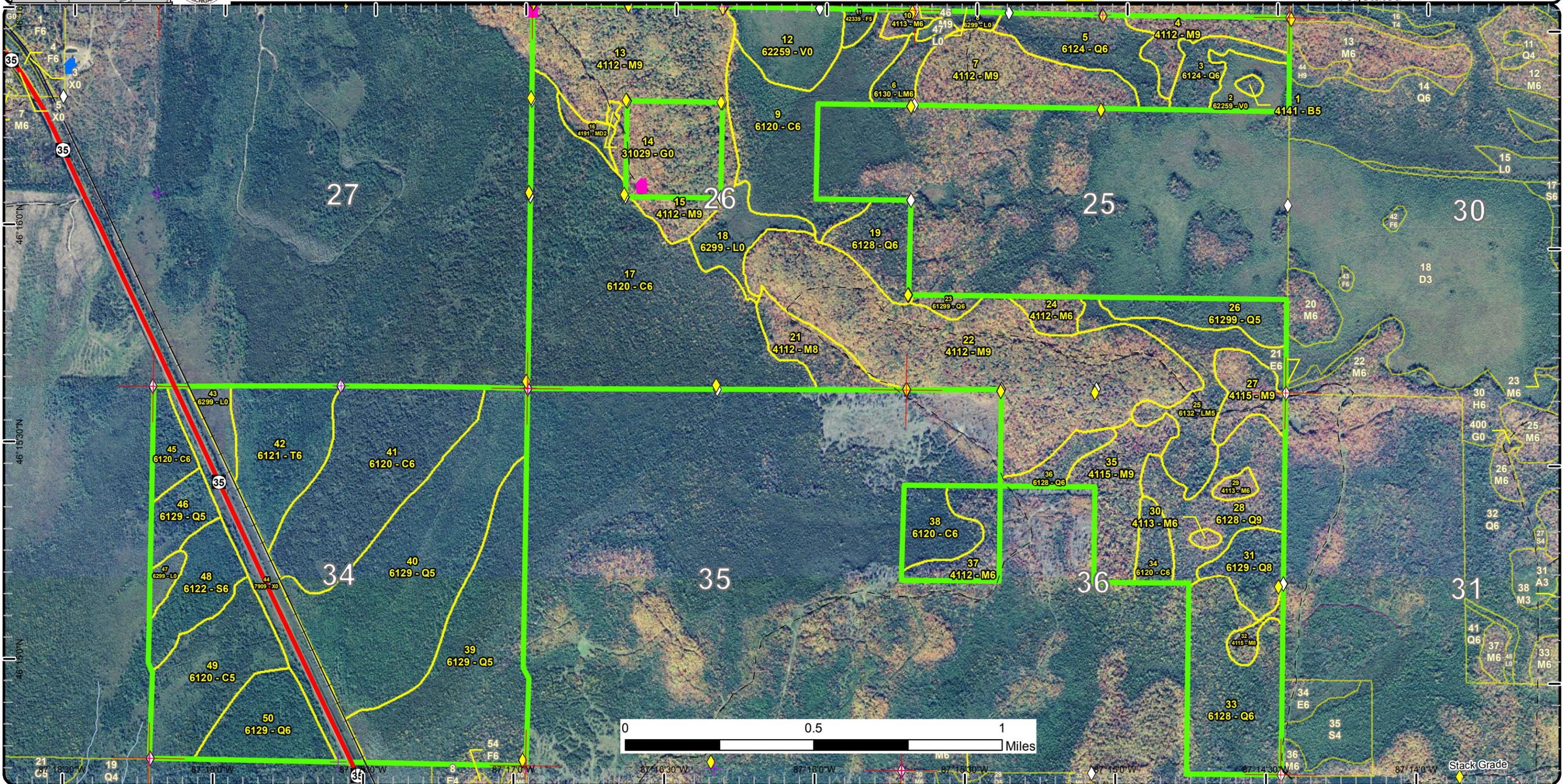


Stand Boundary Map



Compartment: 16
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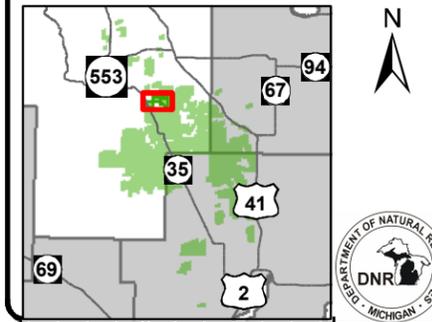
- ✚ Remonumented Section Corners Forest Coverture
 - ◆ Survey Grade GPS Corners
 - ◇ Field Grade GPS Corners
 - Miris Corners
 - Highway
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 - — — Trail (Non-Recreation)
 - — — Closed Roads
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- | |
|---------------------------------|
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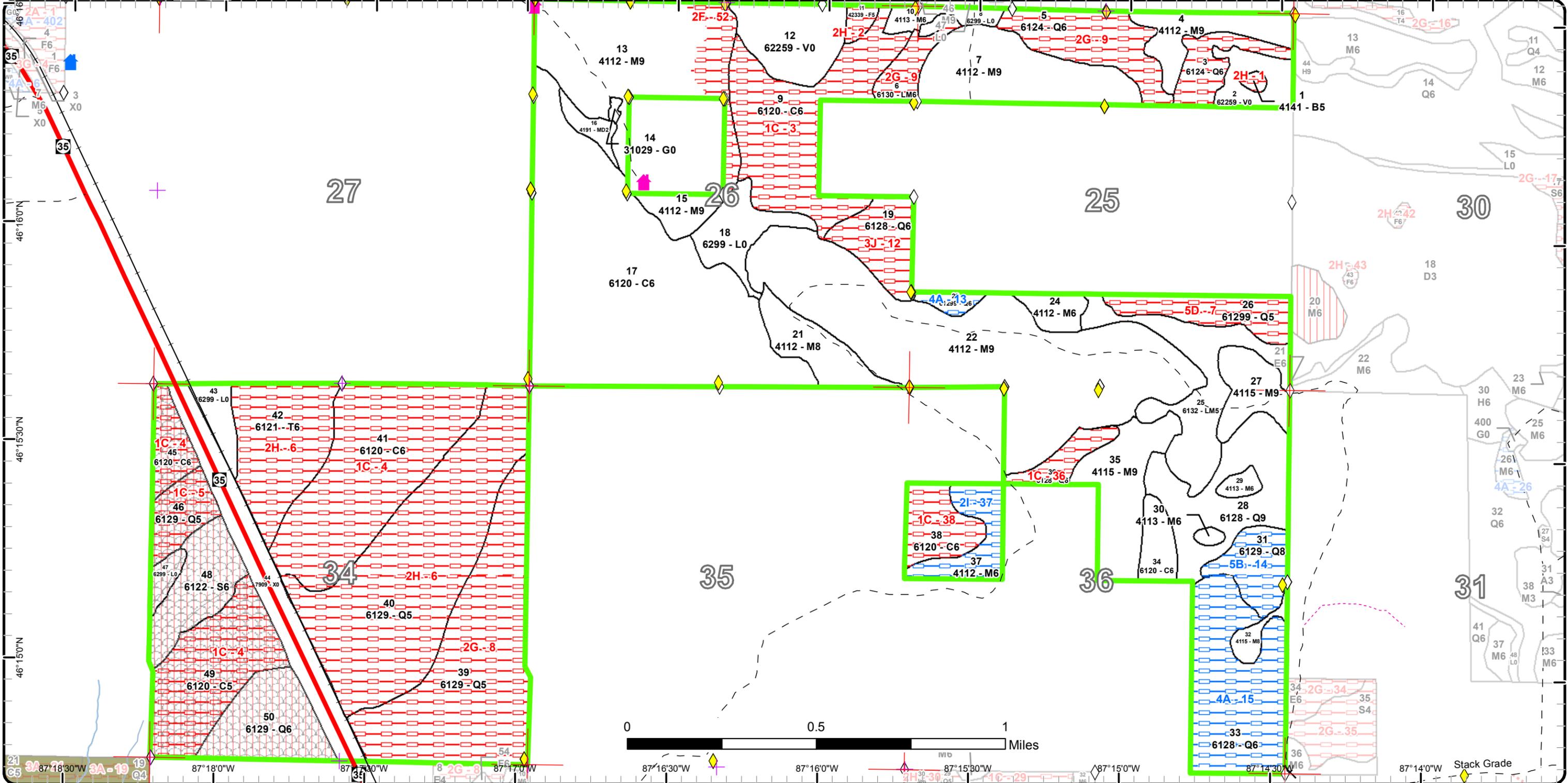
Stack Grade

Special Conservation Areas & Site Conditions Map

Compartment: 16
 T45N,R24W, Sec. 25, 26, 34, 35, 36
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 - ◇ Field Grade GPS Corners
 - Miris Corners
 - Highway
 - - Poor Dirt Roads
 - - - Trail (Non-Recreation)
 - ⋯ Closed Roads
 - ✕ Gate
 - Railroads
 - Rivers
 - Stand Boundaries
- Reviewable SCAs (dq)
 Recommendation
 Site Condition
 Available w/ Constraints
 Unavailable
 Available Factors W/ Constraints
 2I: Survey needed
 4A: No Markets Available for these Forest Products
 5B: Maintain for regeneration purposes
- Unavailable Factors
 1C: Other dept or div proc/practices
 2F: Too steep
 2G: Too wet (sensitive soils, does not include access issues)
 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
 3J: Water quality / BMPs (stream, river, or lake)
 5D: Unproductive Forest Land
- Special Conservation Areas
 — Cold Water Streams



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
Bare/Sparsely Vegetated	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Bog	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Cedar	0	0	0	0	0	0	0	0	0	281	0	173	0	0	0	0	0	33	487
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Conifers	0	0	0	0	0	0	0	0	90	158	0	276	0	0	0	0	0	51	575
Lowland Mixed Forest	0	0	0	0	0	0	0	0	12	47	0	0	0	0	0	0	0	0	59
Lowland Shrub	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0	31
Mixed Upland Deciduous	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	0	0	0	0	0	0	0	191	0	0	0	0	0	0	0	304	495
Paper Birch	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Tamarack	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	0	0	52
Upland Spruce/Fir	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Total	140	0	6	0	0	0	0	0	0	191	677	0	449	0	0	0	0	388	1851



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 16

Total Compartment Acres: 1,851

Commercial Harvest - 68
 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
Lowland Conifers	37	0	0	0	0	0	0	0	0	37
Lowland Spruce/Fir	31	0	0	0	0	0	0	0	0	31
Total	68	0	0	0	0	0	0	0	0	68

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	68	0	0	0	0	0	0	0	0	68
Next Step	0	0	0	0	0	0	68	0	0	68
Total	68	0	0	0	0	0	68	0	0	137



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
48	32016048-Cut	30.8	6122 - Black Spruce	Poletimber Well	86	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Harvest all spruce, fir, tamarack. Leave all cedar and retain some spruce/fir/tamarack within these cedar patches.

Specs:

Next Step

Treatments:

Acceptable Spruce, tamarack, fir and cedar with a component of deciduous

Regen:

Other Will need to be winter harvest only. Notify/acquire permits from MDOT for temporary road access. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

50	32016050-Cut	37.5	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	86	81-110	Harvest	Clearcut with Retention	6129 - Mixed Coniferous Lowland Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest all spruce, fir, tamarack. Leave cedar with a component of spruce/fir/tamarack interspersed. Evaluate at time of sale prep whether to

Specs: leave all paper birch or just a component as retention.

Next Step

Treatments:

Acceptable spruce, tamarack, fir, cedar and a component of deciduous species

Regen:

Other Will need to be winter harvest. Notify/acquire road permits from MDOT. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment
Acreage Proposed: 68.3**

Report 5 – Site Conditions

Gwinn Mgt. Unit
Theresa Sysol : Examiner

Compartment: 16
Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
48	48	0	0
486	216	0	271
1,851	984	118	749
	53%	6%	40%

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Condition	Dominant Site Conditions										
						2I	4A	5B	1C	2F	2G	2H	3J	5D		
48	48	48	0	0	Bare/Sparsely Vegetated											
48	48	48	0	0	Bog											
486	216	216	0	271	Cedar				271							
1	1	1	0	0	Herbaceous Openland											
575	89	89	97	389	Lowland Conifers		76	22	29		167	144	25	24		
59	47	47	0	12	Lowland Mixed Forest						12					
43	43	43	0	0	Lowland Shrub											
31	31	31	0	0	Lowland Spruce/Fir											
6	6	6	0	0	Mixed Upland Deciduous											
495	455	455	21	20	Northern Hardwood	21				20						
2	0	0	0	2	Paper Birch									2		
52	0	0	0	52	Tamarack									52		
4	0	0	0	4	Upland Spruce/Fir									4		
1,851	984	984	118	749	Total Forested Acres	21	76	22	299	20	179	202	25	24		
					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	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Gwinn Mgt. Unit
Theresa Sysol : Examiner

Compartment: 16
Year of Entry: 2017

3	Unavailable	1C: Other dept or div proc/practices	77	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Wildlife habitat restrictions							
4	Unavailable	1C: Other dept or div proc/practices	173	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar cutting restraints.							
5	Unavailable	1C: Other dept or div proc/practices	17	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Cedar cutting restraints							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	196	Unspecified	Unspecified	Unspecified	Unspecified
Comments: No access across railroad tracks.							
7	Unavailable	5D: Unproductive Forest Land	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	114	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Gwinn Mgt. Unit
Theresa Sysol : Examiner

Compartment: 16
Year of Entry: 2017

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	65	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Some edges may be treatable when surrounding stands are treated; re-evaluate at that time.							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	25	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Some edges may be treatable when surrounding stand is next treated; re-evaluate at that time. Drainage within stand.							
13	Available	4A: No Markets Available for these Forest Products	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Possibly treat when adjacent stand is scheduled - not marketable by itself.							
14	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	4A: No Markets Available for these Forest Products	71	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	1C: Other dept or div proc/practices	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Gwinn Mgt. Unit
Theresa Sysol : Examiner

Compartment: 16
Year of Entry: 2017

37	Available	2I: Survey needed	21	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	1C: Other dept or div proc/practices	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
52	Unavailable	2F: Too steep	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



Report 6 – 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
C. 16 Removal 1	Other SCA		SCA Removal	15
Comments C6Q5L, NICE CED STEMS, S/F MOSTLY DEAD FROM BUDWORM. Not old growth - BMP's will protect.				
C. 16 Removal 2	Other SCA		SCA Removal	17
Comments Not old growth. BMP's will protect.				
C. 16 Removal 3	Other SCA		SCA Removal	4
Comments Not old growth. BMP's will protect.				
C. 16 Removal 4	Other SCA		SCA Removal	29
Comments Not old growth. BMP's will protect.				
C. 16 Removal 5	Other SCA		SCA Removal	61
Comments Not old growth. BMP's will protect.				
C. 16 Removal 6	Other SCA		SCA Removal	38
Comments S6Q4L, NICE PATCHES ALONG M-35 OF T/S, WET. Not old growth. BMP's will protect.				



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.

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Gwinn Mgt. Unit

Report 8 – Forested Stands

Compartment: 16
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4141 - Birch (OI)	Poletimber Medium	1.8	87	51-80	OPIC - FMD: B5F4, ISLAND IN BOG, ACCESS POOR.
3	6124 - Lowland Spruce- Fir	Poletimber Well	17.3	87	81-110	OPIC - FMD: S6Q4, BUDWORM LT -MED, FEW LG WPINE, POOR ACCESS.
4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	23.2	95	81-110	OPIC - FMD: M6M7, Cut prmt# 30-02-07-01 "Carlshend Hardwood" (unit 3,4) - completed fall, 2008.
5	6124 - Lowland Spruce- Fir	Poletimber Well	35.3	87	81-110	
6	6130 - Fir, Aspen, Maple	Poletimber Well	12.2	85	81-110	OPIC - FMD: Small area between the Q and M types, with wet areas interspersed.
7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	54.0	95	81-110	OPIC - FMD: M7M6 Cut prmt# 32-02-07-01 "Carlshend Hardwood" (unit 1,2) finished in 2008. Access through private from north - Plum Creek land.
9	6120 - Lowland Cedar	Poletimber Well	76.6	96	81-110	
10	4113 - R.Maple, Conifer	Poletimber Well	5.2	95	81-110	Poor quality stand.
11	42339 - Upland Spruce/Fir (OI)	Poletimber Medium	4.0	85	51-80	
13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	94.2	95	81-110	OPIC - FMD: ACCESS ACROSS PVT LAND. CUT BY TIMBER PRODUCTS (KANERVA WAS SUB CONTRACTOR) UNDER PERMIT #029-99-01 "Cohen Hills" (units 1-3). Thinned October - December, 2001. Crew pulled out of sale and finished in October, 2002. E. portion of stand not thinned due to steep slopes. Also thinned in 1978-79 under permit #14/77. Heavier fir along lower edges. Ground cover of lycopodium.
15	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.0	95	81-110	OPIC - FMD: ACCESS ACROSS PVT LAND. CUT BY TIMBER PRODUCTS (KANERVA WAS SUB CONTRACTOR) UNDER PERMIT #029-99-01 "Cohen Hills" (unit 4). Unit was cut Dec-Jan, 2001-02; logger pulled out of sale and completed in October, 2002.
16	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	6.2	13	Immature	OPIC - FMD: CUT BY TIMBER PRODUCTS (KANERVA WAS SUBCONTRACTOR) UNDER PERMIT#029-99-01. "Cohen Hills" (unit 5) - harvested December, 2001. Removed all fir, spruce and aspen, but left any hardwood and all cedar, hemlock. A few small maple poles scattered in stand.
17	6120 - Lowland Cedar	Poletimber Well	203.9	95	81-110	Higher edges to black spruce; interior with more cedar, tamarack. Ground cover of sphagnum, lab tea, snowberry noted.
19	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	25.1	95	51-80	Some higher ground within; overall low and wet - drainage flows through.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	23.3	95	51-80	Treated Feb/March, 2012 by Sanville under contract # 003-07-01 "Stack Grade 07" (unit 4).
22	4112 - Maple, Beech, Cherry Association	Sawtimber Well	184.2	95	81-110	OPIC - FMD: Cut prmt. #5-97-01 "Clark Road Hardwoods" - thinned 1998 - fall, 2000.
23	61299 - Mixed Swamp Conifer (OI)	Poletimber Well	4.8	95	51-80	
24	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.2	95	81-110	Access from east through private. Treated late winter of 2012 by Sanville under contract # 003-07-01.
25	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	46.7	95	51-80	OPIC - FMD: E6Q4, WET, SMALL DBH, NON-PROD.
26	61299 - Mixed Swamp Conifer (OI)	Poletimber Medium	24.0	98	51-80	Edge of larger treed bog complex. Mixed of black spruce, tamarack, cedar.
27	4115 - Y.Birch, Hemlock NH	Sawtimber Well	20.1	95	51-80	OPIC - FMD: Cut prmt. # 5-97-01 "Clark Road Hardwoods" (unit 1) - thinned 1998.
28	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	51.1	95	81-110	
29	4113 - R.Maple, Conifer	Poletimber Well	4.1	95	81-110	OPIC - FMD: Surrounded by wet area. Mainly low quality red maple stand.
30	4113 - R.Maple, Conifer	Poletimber Well	1.9	95	81-110	OPIC - FMD: Surrounded by wet area, leave for wildlife. Mainly red maple stand.
31	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	21.5	95	51-80	Fairly open stand. Hemlock, spruce, cedar edges with transition to white pine, hemlock, cedar interior. Dead spruce within - mistletoe noted. BA ranged from 30 - 100.
32	4115 - Y.Birch, Hemlock NH	Sawtimber Medium	5.8	97	51-80	Treated late winter 2012 by Sanville under contract # 003-07-01 "Stack Grade 07" (unit 1). Access is from the east across private. Some untreated areas included within stand.
33	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	70.9	97	51-80	OPIC - FMD: E4Q4Q3, PATCHY MERCH STEMS, WET, CUT SPRUCE/FIR W/ADJ STANDS, FEW WP. riparian area, leave for buffer. 2015: Pockets of scattered maple, birch within lowland. Heavy fir understory - lots of mixed species.
34	6120 - Lowland Cedar	Poletimber Well	11.8	97	51-80	
35	4115 - Y.Birch, Hemlock NH	Sawtimber Well	38.3	95	81-110	2012 - Treated late winter of 2012 by Sanville under contract # 003-07-01.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
36	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	11.4	97	141-170	OPIC - FMD: Q6, LOW DRAW IN HDWD STD., Leave for wildlife.
37	4112 - Maple, Beech, Cherry Association	Poletimber Well	20.6	95	111-140	
38	6120 - Lowland Cedar	Poletimber Well	20.9	107	111-140	OPIC - FMD: C6Q4C3, NICE CED STEMS.
39	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	114.4	110	1-50	SMALL PATCHES MERCH STEMS, BASICALLY NON-PROD, INOPERABLE. Some areas of standing dead timber. Both RR and Hwy influence.
40	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	144.1	115	1-50	Q5Q3. Low, wet. Mainly tamarack/spruce swamp/treed bog with trace white pine. Hwy and RR influence.
41	6120 - Lowland Cedar	Poletimber Well	100.7	114	81-110	Tamarack/spruce with cedar sub-canopy. Hwy and RR influence.
42	6121 - Tamarack	Poletimber Well	52.3	86	1-50	Patches of merchantable stems. Hwy and RR influence.
45	6120 - Lowland Cedar	Poletimber Well	14.5	114	111-140	Lots of standing water. Fir dieback; old balsam poplar, paper birch scattered within. Ground cover of sphagnum, grasses noted.
46	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	17.3	114	1-50	Cedar in patches. Sparser stand with more lowland brush; drainage within.
48	6122 - Black Spruce	Poletimber Well	30.8	86	51-80	Heavy rabbit sign.
49	6120 - Lowland Cedar	Poletimber Medium	58.1	114	141-170	Smaller timber; more lowland brush within. Open areas with balsam fir regeneration, tagalder and spruce. Trace amount of paper birch noted along ROW edge.
50	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	37.5	86	81-110	Nice patches of S/T with scattered cedar; good rabbit sign. Difficult access off M-35.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	62259 - Bog (OI)	16.2	No	OPIC - FMD: V-BOG.
8	6299 - Lowland Shrub (OI)	5.3	No	OPIC - FMD: BEAVER FLOODING
12	62259 - Bog (OI)	32.2	No	OPIC - FMD: V- BOG, SCATTERED BLACK SPRUCE.
14	31029 - Grass (OI)	1.1	No	Natural opening now.
18	6299 - Lowland Shrub (OI)	22.1	No	
43	6299 - Lowland Shrub (OI)	9.9	No	
44	7909 - Nonstocked (OI)	48.3	No	OPIC - FMD: M-35 AND RR R/W.
47	6299 - Lowland Shrub (OI)	5.7	No	