



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32019

Entry Year 2021

Acreage: 1,323

County Marquette

Management Area: Dead Horse Moraines

Revision Date: 2019-07-25

Stand Examiner: Peter Holodnick

Legal Description:

T44N R24W Sec's. 13, 14, 15

Identified Planning Goals:

This compartment lies just northwest of McFarland near the old Helena railroad junction. It consists of large wetland complexes with hardwood ridges and sand eskers which barely support poor quality aspen. Access is extremely limited with Parker Spur the only decent road located south of the compartment. Only one hardwood stand is prescribed although access will be an issue. The management goals for this stand are to improve stem quality and diameter class distribution while maintaining species diversity, conifer content, and den trees. Mesic conifer composition could be enhanced thru under planting of hemlock and/or white pine in these stands. The harvest plans will also include considerations for conifer retention, coarse woody debris, and BMP's. Special conservation area stands are included in the large wetland complexes.

Soil and topography:

Terrain is flat to gently rolling; generally swampland to the east with more upland terrain to the west. Soils range from very poorly drained loam to sandy ridges. Major soil associations include: Carbondale, Lupton, Rifle, Rubicon, Croswell, and Tawas.

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

Several forties of private ownership are located within and adjacent to this compartment.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Special Conservation Area Stands: 28

Watershed and Fisheries Considerations:

No fisheries concerns.

Wildlife Habitat Considerations:

Compartment 019 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 13 - 15, T44N-R24W, Marquette County Surface sediments consist of medium-textured till. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien Group and Cambrian Trempealeau Formation subcrop below the glacial drift. These formations could be used for stone in the UP. There are no gravel pits in

the area, and potential appears to be limited. Abandoned iron mines are located six miles to the northwest. This State land has not been previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Access is fair from Parker Spur to the south and M35

Survey Needs:

none

Recreational Facilities and Opportunities:

Recreational activity for this area is primarily for upland hunting of ruffed grouse, woodcock and whitetail deer.

Fire Protection:

This compartment has a low risk for wildfire.

Additional Compartment Information:

¾ The following 5 reports from the Operations Inventory System (OIPC) are attached: ♦ Cover Type by Age Class ♦ Cover Type by Management Objective ♦ Compartment Volume Summary ♦ Proposed Treatments – No Limiting Factors ♦ Proposed Treatments – With Limiting Factors

¾ The following information is displayed, where pertinent, on the attached compartment maps: ♦ Base feature information, stand numbers, cover types ♦ Proposed treatments ♦ Proposed road access system ♦ Suggested potential old growth

The following reports from the Inventory are attached:

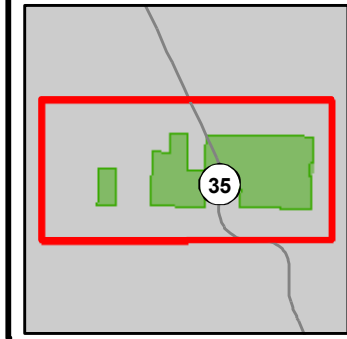
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

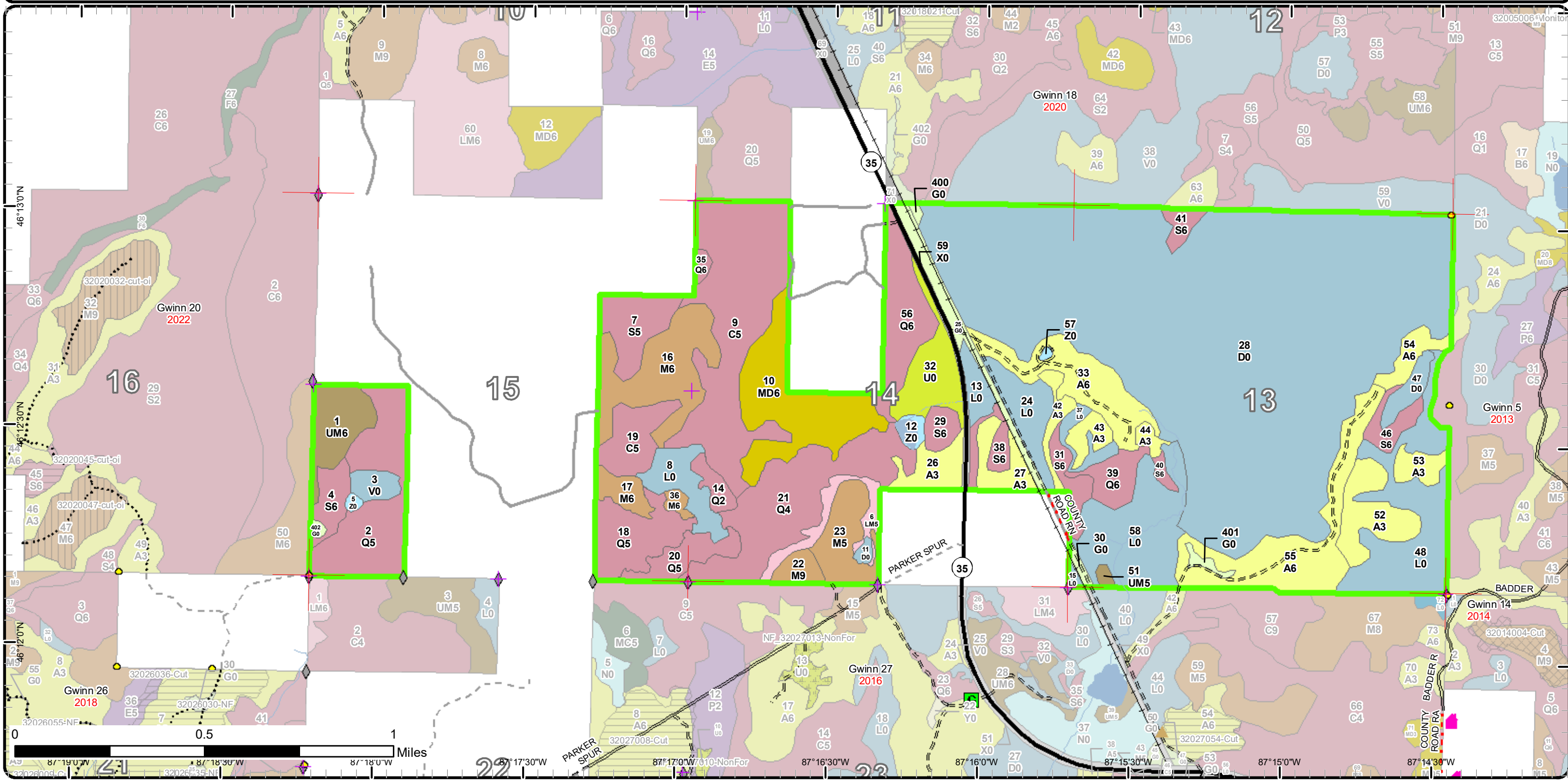
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 19
 T44N, R24W, Sec: 13, 14, 15
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2021
 Acres: 1,323 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 8/19/2019
 Map Phase: Web-Post

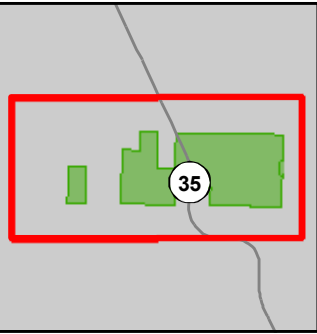


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- == Federal / State Highway
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- Private - Paved Road
- - - Private - Dirt / Gravel Road
- ... DNR - Management Access
- Active Railroads
- ▲ Structure, Seasonal Dwelling
- ▲ Berms
- Ⓜ Gate
- ▲ Structures
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- Lakes
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

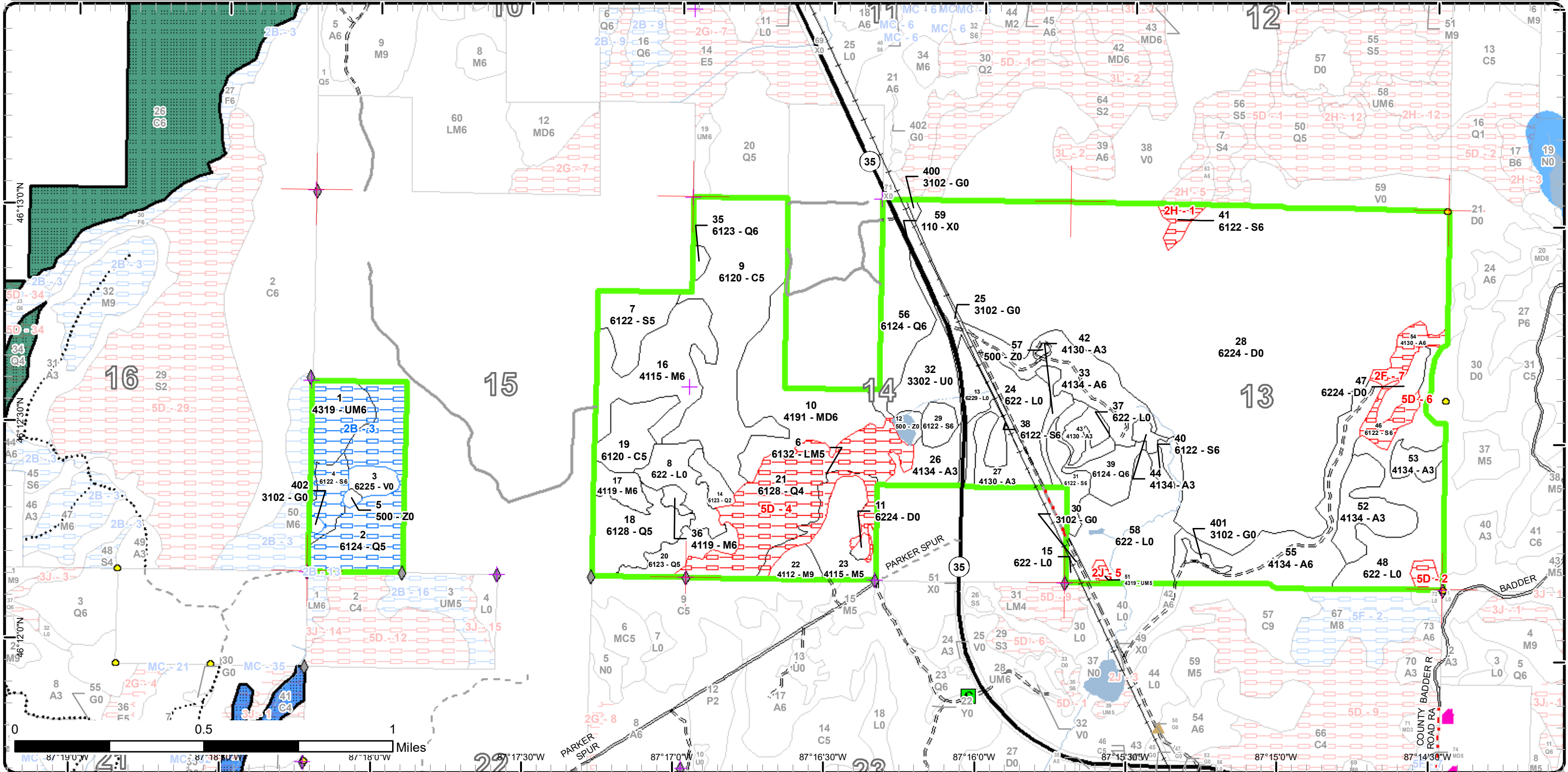


Special Conservation Areas & Site Conditions Map

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- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Riparian Area
- Habitat Corridor





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	0	41	22	77	0	0	8	0	0	0	0	0	0	0	0	0	0	148
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	0	0	17	0	82	0	0	0	0	0	0	98
Herbaceous Openland	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Low-Density Trees	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Conifers	0	0	0	20	0	0	45	0	119	0	0	0	0	0	0	0	0	0	183
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	11
Lowland Shrub	139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	139
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	39	23	0	0	0	0	0	0	0	0	62
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	48
Northern Hardwood	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	56	76
Treed Bog	479	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	479
Upland Mixed Forest	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	19	21
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	675	0	41	62	77	0	47	8	158	40	11	82	0	0	0	0	0	123	1322



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 19

Total Compartment Acres: 1,323

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



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
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#Type!

Habitat Cut:PrescriptionSpecs:Next StepTreatments:AcceptableRegen:OtherComment:Proposed Start Date:**Site Condition:**

**Total Treatment
Acreage Proposed: 0.0**

Report 4 – Site Conditions

Gwinn Mgt. Unit

Peter Holodnick : Examiner

Compartment: 19

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		2B	2F	2H	2J	5D
149	141	0	8	Aspen		8			
6	6	0	0	Bog					
98	98	0	0	Cedar					
19	19	0	0	Herbaceous Openland					
20	20	0	0	Low-Density Trees					
184	83	45	57	Lowland Conifers	45				57
11	0	0	11	Lowland Mixed Forest					11
139	135	0	3	Lowland Shrub					3
63	41	9	12	Lowland Spruce/Fir	9		5		7
48	48	0	0	Mixed Upland Deciduous					
75	75	0	0	Northern Hardwood					
479	479	0	0	Treed Bog			0		
20	0	19	1	Upland Mixed Forest	19			1	
7	7	0	0	Urban					
5	5	0	0	Water					
1,323	1,158	73	92	Total Forested Acres	73	8	5	1	78
	88%	6%	7%	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)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5D: Unproductive Forest Land	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Peter Holodnick : Examiner

Compartment: 19

Year of Entry: 2021

3	Available	2B: Unknown if access through adjacent landowner(s) is possible	73	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5D: Unproductive Forest Land	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2J: Blocked by Railroad	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5D: Unproductive Forest Land	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2F: Too steep	8	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
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
1	4319 - Mixed Upland Forest	Poletimber Well	18.9	95	111-140	N/A	OPIC - FMD: Fair quality hardwood with scattered white spruce, hemlock, and yellow birch. The harvest plan will retain these minor species. Access is poor thru private lands, with frozen winter the only logging option.																																						
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2	6124 - Lowland Spruce-Fir	Poletimber Medium	44.5	58	51-80	N/A	Mix of black ash, soft maple and swamp conifers.																																						
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3	6225 - Bog	Nonstocked	5.9		Unspecified	No																																							
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4	6122 - Black Spruce	Poletimber Well	9.3	84	51-80	N/A	LEAVE CEDAR AND HEMLOCK. UPLAND-LOWLAND.																																						
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5	500 - Water	Nonstocked	1.1		Unspecified	No	OPIC - FMD: OI Stand Year Origin was																																						
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6	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	10.8	95	1-50	N/A	Scattered cedar and black ash over tag alder.																																						
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7	6122 - Black Spruce	Poletimber Medium	18.3	70	1-50	N/A	Fairly sparse, wet black spruce poles with cedar and fir. Stocking increases to S6 along the transition zone with stand 16.																																										
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Red Maple	15	Sapling/Pole/Log	4																																														
8	622 - Lowland Shrub	Nonstocked	15.4		Unspecified	No	Old beaver flooding, currently non-stocked with a "forest" of dead standing cedar.																																										
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9	6120 - Lowland Cedar	Poletimber Medium	81.6	105	51-80	N/A	Small cedar with associated swamp conifers with semi open areas of tag alder.																																										
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10	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	48.1	85	51-80	N/A	2006-Cut in 2005 under permit # 004-01-01 by LaFleur. Fair amount of hemlock in this stand.																																										
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11	6224 - Treed Bog	Nonstocked	1.5		Unspecified	No	Treed bog, mostly stunted black spruce.																																										
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12	500 - Water	Nonstocked	3.5		Unspecified	No	OI Stand Year Origin was																																										
13	6229 - Mixed lowland shrub	Nonstocked	6.7		Unspecified	No	Tag alder and willow.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
14	6123 - Lowland Fir	Sapling Medium	5.5	26	Immature	N/A	Area treated under timber sale # 011-91-01. CUT IN 1997. Decent fir regen.																																	
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16	4115 - Y.Birch, Hemlock NH	Poletimber Well	39.9	85	51-80	N/A	CUT UNDER PERMIT # 11-91-1. Poor quality red maple stand, mostly low and wet with with a few better quality sugar maple on the "higher" ground.																																	
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17	4119 - Mixed Northern Hardwoods	Poletimber Well	7.4	85	51-80	N/A	Cut under permit #11-91-1, the stand is slow growing and not yet ready for harvest. An island of fair quality hardwoods with wet feet.																																	
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18	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	24.4	75	1-50	N/A	Small black ash with scattered cedar, tamarack, black spruce.																																	
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19	6120 - Lowland Cedar	Poletimber Medium	16.5	88	51-80	N/A	Wet swamp conifers.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
20	6123 - Lowland Fir	Poletimber Medium	12.4	26	Immature	N/A	Area treated under timber sale # 012-91-01. Decent fir regen.			
		Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
		Balsam Fir	50	Pole/Sap/Log	6	26	Balsam Fir	Low	< 5 feet	Sapling
		Balsam Poplar	25	Pole/Sap/Log	6					
		Red Maple	10	Sapling/Pole/Log	4					
		Black Spruce	10	Pole/Sap/Log	5					
21	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	56.7	70	1-50	N/A	Scattered cedar and black ash over tag alder.			
		Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
		Northern White Cedar	15	Pole/Sap/Log	6		Balsam Fir	Low	5 - 10 feet	Sapling
		Balsam Fir	30	Sapling/Pole/Log	4	70				
		Black Spruce	15	Pole/Sap/Log	6					
		Black Ash	15	Sapling/Pole/Log	4					
		Balsam Poplar	15	Sapling/Pole	4					
		Hemlock	10	Log/Pole/XLog	16					
22	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.0	85	51-80	N/A	Area treated under timber sale # 012-91-01. Fairly good quality soft maple on rolling terrain. Wet in the bottoms. Scattered fir and hemlock. BA is not there cut next entry.			
		Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
		Red Maple	65	Log/XLog/Pole	12	85	Balsam Fir	Low	5 - 10 feet	Sapling
23	4115 - Y.Birch, Hemlock NH	Poletimber Medium	19.6	23	51-80	N/A	Area treated under timber sale # 012-91-01. Scattered soft maple and hemlock with good fir regeneration.			
		Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
		Red Maple	45	Pole/Log/Sap	8	23	Balsam Fir	High	5 - 10 feet	Sapling
		Hemlock	20	Log/XLog	16					
		Sugar Maple	20	Log/Pole/XLog	10					
24	622 - Lowland Shrub	Nonstocked	16.5		Unspecified	No	Tag alder and willow.			
		Canopy Species	Density	Avg. Height	Size					
		Tag Alder	Medium	5 - 10 feet	Tall Shrub					
25	3102 - Grass	Nonstocked	13.5		Unspecified	No	M-35 AND RR R-O-W's			
26	4134 - Aspen, Spruce/Fir	Sapling Well	11.6	27	Immature	N/A	A3, CUT 1992, PERMIT #013-91-1. Aspen is 3-5" dbh with fir in the understory.			
		Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
		Quaking Aspen	65	Sapling/Pole	3	27	Balsam Fir	Low	< 5 feet	Sapling
		Balsam Fir	15	Pole/Sap/Log	6					
		Black Spruce	15	Pole/Sap/Log	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
27	4130 - Aspen	Sapling Well	10.4	27	Immature	N/A	A3, CUT 1992, PERMIT #013-91-1. Aspen is 3-5" dbh with fir in the understory.																												
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28	6224 - Treed Bog	Nonstocked	471.3		Unspecified	No	OPIC - FMD: SCA This stand consists primarily of stunted black spruce and tamarack but also has a small area of black spruce poles. Stocking varies from S1 to S5. This stand is part of a vast wetland complex that consist of large remnant hardwood, hemlock, aspen and black spruce "islands" surrounded by bog. Stands within this large complex have remained essentially untouched since the turn of the century, contain many habitat elements such as supercanopy trees, numerous large snags, abundant and varied tree cavities/dens, frequent large diameter downed trees, and intact natural ecosystem processes/disturbances. It is an excellent candidate for potential old growth.																												
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29	6122 - Black Spruce	Poletimber Well	5.8	70	111-140	N/A	Dense stand of black spruce with tag alder. Very wet.																												
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30	3102 - Grass	Nonstocked	1.9		Unspecified	No	CN RR R-O-W.																												
31	6122 - Black Spruce	Poletimber Well	8.2	75	111-140	N/A	Decent stand of black spruce with tag alder. Very wet.																												
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32	3302 - Low Density Conifer Trees	Nonstocked	20.3		Unspecified	No	tag alder and cattails.																												
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33	4134 - Aspen, Spruce/Fir	Poletimber Well	31.0	39	Unspecified	N/A																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
35	6123 - Lowland Fir	Poletimber Well	1.9	26	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Balsam Fir		50	Sapling/Pole/Log	4	26				
Red Maple		15	Pole/Log/Sap	5					
Northern White Cedar		10	Pole/Sap/Log	5					
Black Spruce		10	Pole/Sap/Log	6					
Hemlock		15	XLog/Log/Pole	18					
36	4119 - Mixed Northern Hardwoods	Poletimber Well	2.4	85	51-80	N/A	Cut under permit #11-91-1, the stand is slow growing and not yet ready for harvest. An island of fair quality hardwoods with wet feet.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple		45	Log/Pole/XLog	10	85	Balsam Fir	Low	5 - 10 feet	Sapling
Sugar Maple		20	Log/Pole/XLog	12					
Balsam Fir		10	Pole/Sap/Log	6					
Hemlock		10	Log/Pole/XLog	16					
37	622 - Lowland Shrub	Nonstocked	5.6		Unspecified	No	OPIC - FMD: Tag alder and willow.		
38	6122 - Black Spruce	Poletimber Well	7.0	75	111-140	N/A	Dense stand of black spruce with tag alder. Very wet. This stand is ready to be cut however I am going to hold it until next entry when there is more to cut in this compartment.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Black Spruce		75	Pole/Sap/Log	6	75	Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir		20	Sapling/Pole/Log	4					
39	6124 - Lowland Spruce-Fir	Poletimber Well	10.6	70	51-80	N/A	Black spruce swamp pocket.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Black Spruce		45	Pole/Log/Sap	5	70	Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir		25	Sapling/Pole/Log	4					
Quaking Aspen		15	Pole/Sap/Log	5					
Red Maple		10	Pole/Log/Sap	5					
40	6122 - Black Spruce	Poletimber Well	2.0	85	81-110	N/A	Narrow stand of black spruce over L.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Black Spruce		80	Pole/Sap/Log	6	85	Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir		10	Pole/Log/Sap	5					
41	6122 - Black Spruce	Poletimber Well	4.9	85	51-80	N/A	OPIC - FMD: SCA This stand is part of a vast wetland complex that consist of large remnant hardwood, hemlock, aspen and black spruce "islands" surrounded by bog. Stands within this large complex have remained essentially untouched since the turn of the century, contain many habitat elements such as supercanopy trees, numerous large snags, abundant and varied tree cavities/dens, frequent large diameter downed trees, and intact natural ecosystem processes/disturbances. It is an excellent candidate for potential old growth.		
Canopy Species		% Cover	Size Class	DBH	Age				
Black Spruce		50	Pole/Sap/Log	6	85				
Balsam Fir		20	Pole/Sap/Log	5					
Balsam Poplar		10	Pole/Sap/Log	7					
Tamarack		10	Pole/Sap/Log	6					
Northern White Cedar		10	Pole/Sap/Log	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
42	4130 - Aspen	Sapling Well	5.8	15	Immature	N/A	Cut under permit # 005-01-01																												
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43	4130 - Aspen	Sapling Well	6.1	15	Immature	N/A	Cut under permit # 005-01-01																												
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44	4134 - Aspen, Spruce/Fir	Sapling Well	2.7	15	Immature	N/A	Cut under permit # 005-01-01																												
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46	6122 - Black Spruce	Poletimber Well	7.0	85	81-110	N/A	Small black spruce poles and saplings over alder.																												
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47	6224 - Treed Bog	Nonstocked	6.6		Unspecified	No	Treed bog of stunted black spruce.																												
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51	4319 - Mixed Upland Forest	Poletimber Medium	1.5	55	51-80	N/A	Inaccessible island of birch with fir and Balm.																												
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54	4130 - Aspen	Poletimber Well	8.0	68	81-110	N/A	Stunted poles of primarily bigtooth aspen with an occasional fir and white birch, all growing on a narrow sand esker jutting into a large bog. Severe erosion hazard and marginal operability for any type of logging equipment. Currently serving as a significant wildlife travel corridor.																																																						
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55	4134 - Aspen, Spruce/Fir	Poletimber Well	46.3	39	1-50	N/A	KG'd in 1980. Medium stocked fairly short apen poles over aspen and fir saplings. Growing on a sandy esker.																																																						
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56	6124 - Lowland Spruce-Fir	Poletimber Well	27.8	75	51-80	N/A	Small cedar with associated swamp conifers. Everything is still pretty small to cut.																																																						
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57	500 - Water	Nonstocked	0.5		Unspecified	No	Small pond																																																						
58	622 - Lowland Shrub	Nonstocked	44.5		Unspecified	No	Tag alder and willow.																																																						
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59	110 - Low Intensity Urban	Nonstocked	6.6		Unspecified	No	M-35																																																						
400	3102 - Grass	Nonstocked	0.8		Unspecified	No	OPIC - FMD: OI Stand Year Origin was																																																						
401	3102 - Grass	Nonstocked	2.0		Unspecified	No	sand opening																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments								
402	3102 - Grass	Nonstocked	1.0		Unspecified	No	natural opening								
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