

Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32004 Entry Year 2018 Acreage: 1,389

County Marquette

Management Area: Dead Horse Moraines

Revision Date: 2016-10-12

Stand Examiner: Kevin LaBumbard

Legal Description:

T45N, R23W, Sections 19, 30, 31

Identified Planning Goals:

Improve the quality of the Northern Hardwoods stands through selective management while maintaining species diversity, (including the conifer content) and den trees for wildlife. Considerations for species diversity, coarse woody debris, and BMP's will be included with every harvest plan.

Soil and topography:

Terrain is relatively level to gently rolling, with sandy ridges suddenly rising from the lowlands. Soils rang from organics and mucks in the bog areas to well drained sands. Major soil associations include: Carbondale-Lupton-Rifle-Tacoosh-Angelica, and Rubicon-Croswell-Tawas ad Kinross.

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

This compartment is primarily boarded by additional state land, but private ownership lies adjacent especially to the north and south.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

No concerns.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment lies on the break between the Chocolay River and Whitefish River watersheds. The northern portion of this compartment contains many small springs which combine to produce the headwaters of the Chocolay River. The southern portion drains to Sucker Creek. No treatments are proposed near any surface water at this time. As always best management practices should be used when working around surface water.

Wildlife Habitat Considerations:

Compartment 004 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

Sections 19, 30 & 31, T45N-R23W, Marquette County. Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Prairie du Chien Group subcrops below the glacial drift. This formation could be used for stone. A gravel pit is located in section 31 and potential appears to be good on uplands. Abandoned iron mines are located nine miles to the west. This compartment has not been leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Vehicle access to the compartment is poor, with much of the access blocked by private ownership. Existing roads are built on heavy, poorly drained loams, which limits most land management activities to the winter months. Stack Grade needs grading and fill in low spots. A few culverts need replacing. Should be winter only for harvesting and hauling equipment with surrounding wetlands and wet soils.

Survey Needs:

none needed at this time.

Recreational Facilities and Opportunities:

Recreation opportunities in compartment 4 are fairly poor due to the poor access. In addition, this area receives a very heavy snowfall, further limiting access except for snowshoeing or backcountry skiing. Hunting success for ruffed grouse and whitetail deer is only fair.

Fire Protection:

This compartment has a low risk for wildfire.

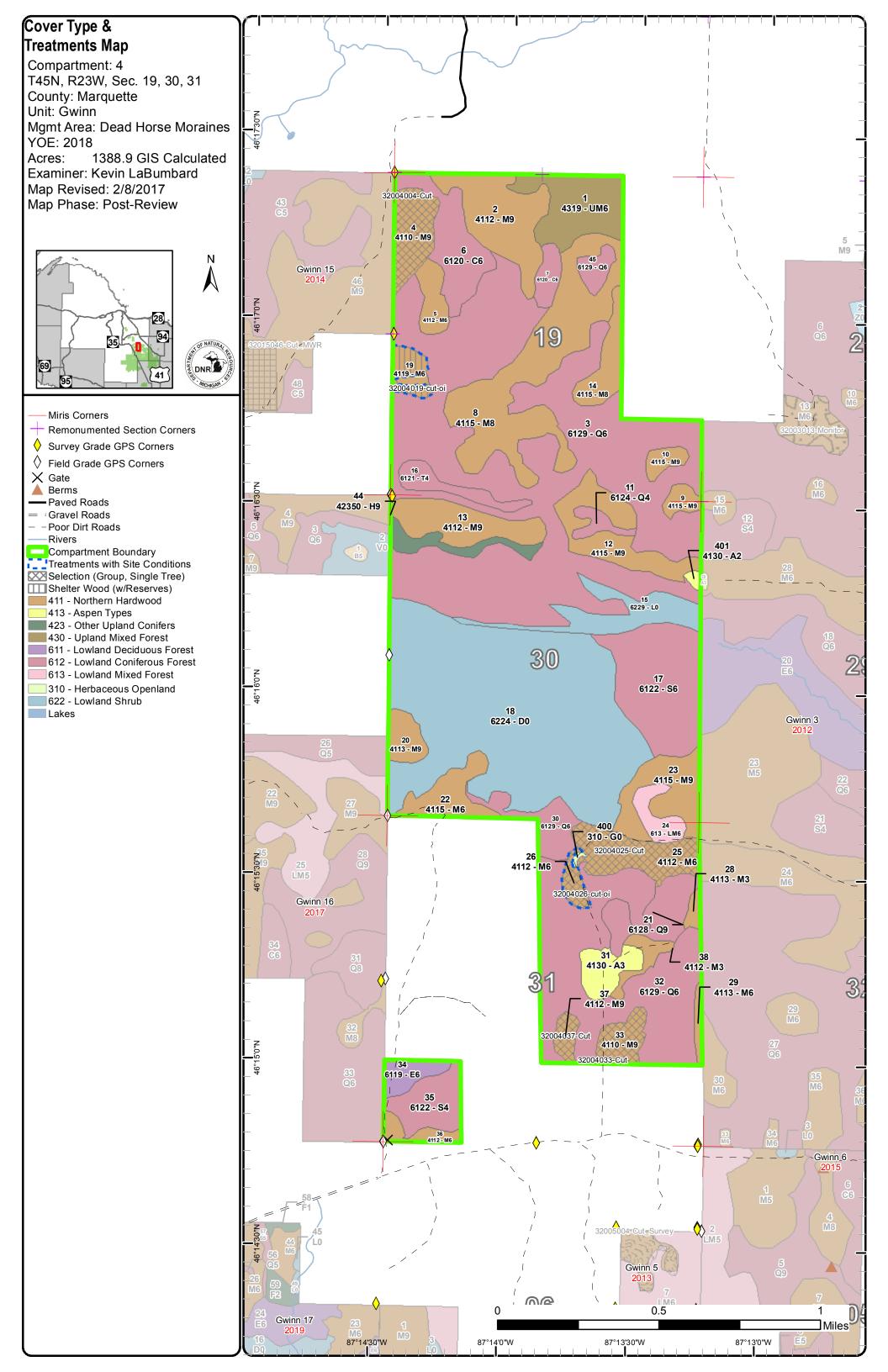
Additional Compartment Information:

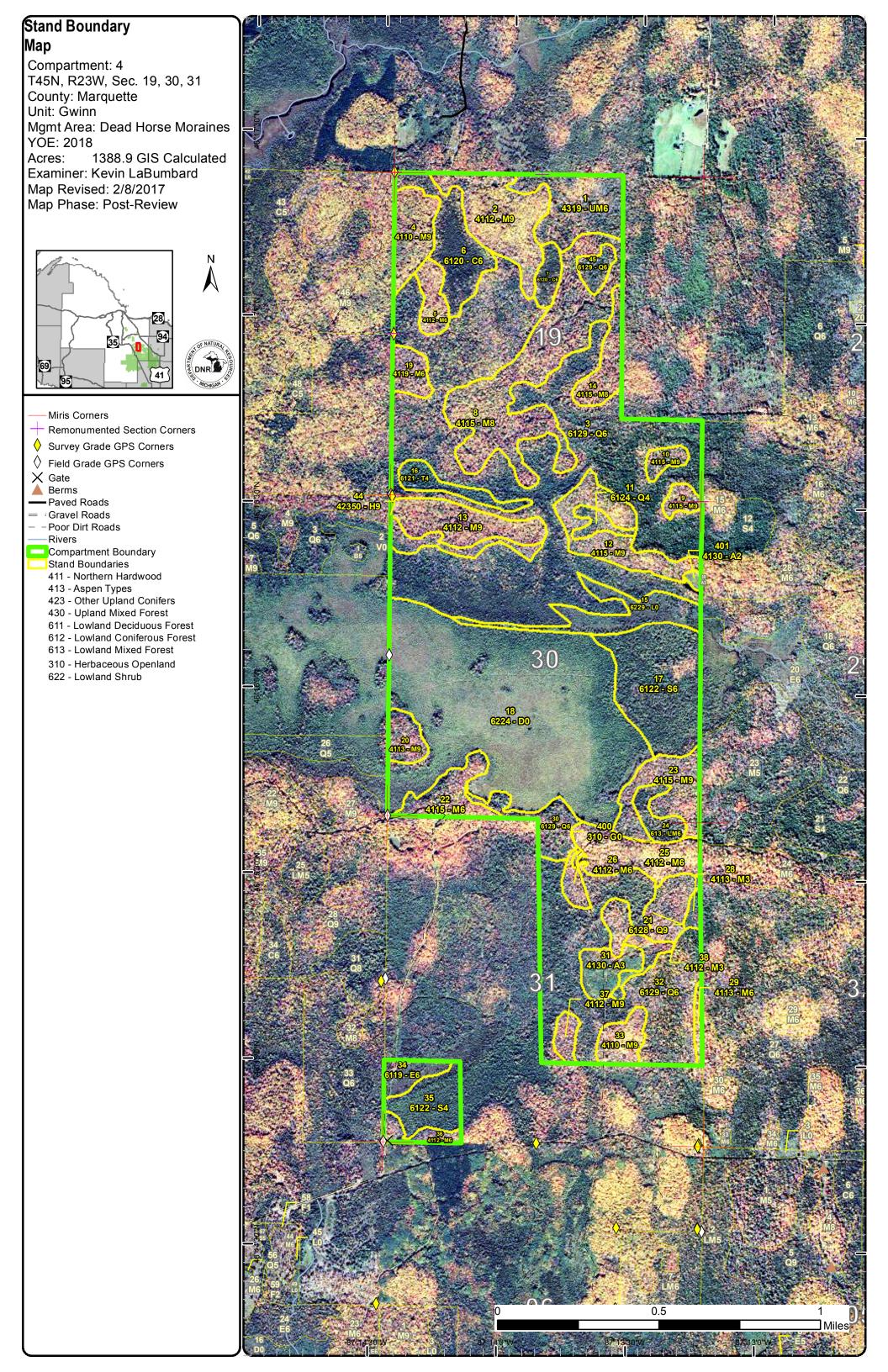
The following reports from the Inventory are attached:

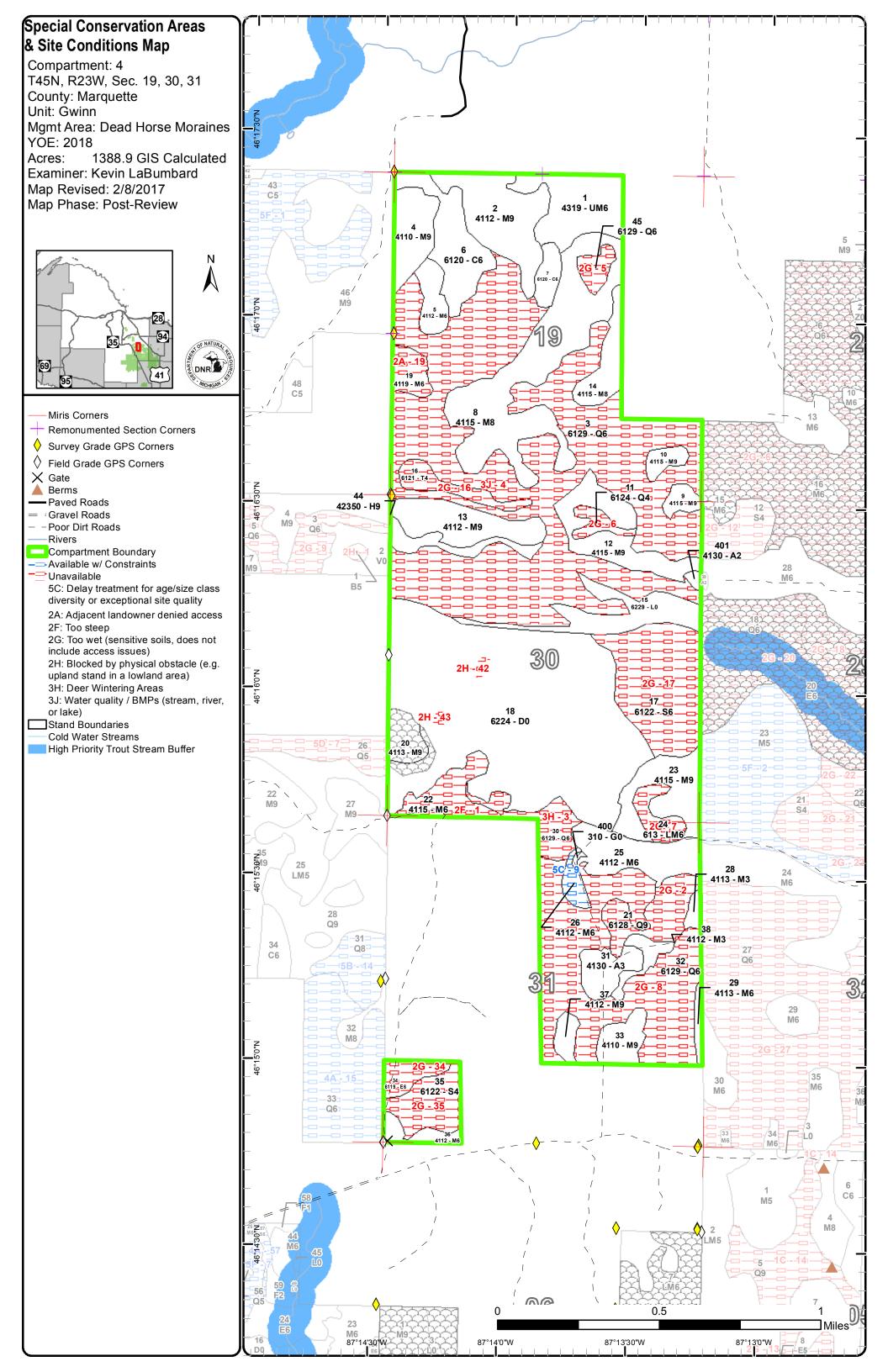
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Compartment 4

Year of Entry 2018



Kevin LaBumbard : Examiner

Age Class

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	Hon	Kodo C	\$ \ <u>\</u>		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	8 / 4	S S	/ § / &					, Za,	2, /s,		05/3 B/	N. S.	Bx Jue	Page A
Aspen	0	0	2	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Cedar	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	39
Hemlock	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
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	0	482	0	0	0	0	0	0	0	23	505
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Lowland Shrub	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	84	0	0	0	0	0	0	0	84
Northern Hardwood	0	0	0	10	0	0	0	0	6	0	0	21	0	0	0	0	0	357	393
Tamarack	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	12
Treed Bog	246	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	246
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	35
Total	276	0	2	24	0	0	0	0	6	589	93	21	0	0	0	0	0	380	1390



Report 2 – Treatment Summary

Gwinn Mgt. Unit Year of Entry: 2018

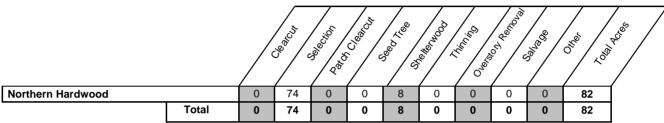
Acres of Harvest

Total Compartment Acres: 1,389

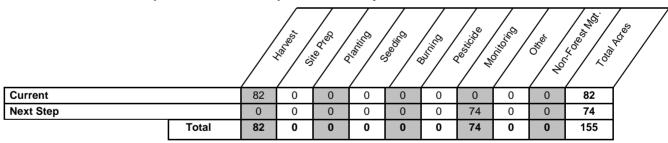
Compartment 4

Commercial Harvest - 68 Harvests with Site Condition - 14 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Prescription

Treatments:

Acceptable All hardwoods, hemlock.

Regen:

Other Keeping all cedar, hemlock if present -Deer

Comment:

Proposed Start Date: 10/01/2017

78 41199 -Draft Field 32004026-cut-5.6 4112 - Maple, Poletimber 111-Harvest **Group Selection** Beech, Cherry Well 140 Northern Boundary oi

Hardwood (OI) Association

Habitat Cut: No Site Condition: Age-Class or Site Quality

Prescription OPIC - FMD: Former F stand, most of the fir is dead and down. The hardwood is mostly soft maple , with lots of clumps and low forks. About 5-Specs:

10 basal area of hemlock poles and occasional cherry. Stand contains a scattering of supercanopy white spruce,

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

<u>Acceptable</u> Regen:

Other 4 2 2 Comment:

10/01/2007 **Proposed Start Date:**

Report 3 -- Treatments Gwinn Mgt. Unit Compartment: 4 s Year of Entry: 2018 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age **Approval** n Objective Name CoverType Density Age Range Type Method Structure **Status** d Even-Aged 33 32004033-Cut 12.6 4110 - Sugar Maple Sawtimber 180 81-110 **Group Selection** 4319 - Mixed Draft Field Harvest Association Well **Upland Forest** Boundary **Habitat Cut: No Site Condition:** Prescription Group selection of poorer quality soft maple retaining most of the minor species component of the stand. Favor yellow birch, cherry, retain Specs: hemlock, cedar, white pine. Monitoring, Natural Regen (Re-Inventory) Next Step Treatments: Acceptable Any hardwoods, hemlock. Regen: Other Favoring black cherry-Black Bear, Ruffed Grouse and keeping all cedar, hemlock if present -Deer Comment: **Proposed Start Date:** 10/01/2017 32004037-Cut 5.7 4112 - Maple, Sawtimber 180 81-110 Harvest **Group Selection** 4319 - Mixed Even-Aged Draft Field Beech, Cherry Well **Upland Forest** Boundary Association **Habitat Cut: No Site Condition:** Prescription Group selection of poorer quality soft maple retaining most of the minor species component of the stand. Favor yellow birch, cherry, retain Specs: hemlock, cedar, white pine.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

81.5

Acceptable All hardwoods, hemlock.

Regen:

Other Favoring black cherry-Black Bear, Ruffed Grouse and keeping all cedar, hemlock if present -Deer

Comment:

Proposed Start Date: 10/01/2017

Total Treatment

Acreage Proposed:

Compartment: 4 Year of Entry: 2018 **Kevin LaBumbard : Examiner**

Availa	ability for	Managemer	nt								
Total	Acres	Acres Avail	Acres		Domina	nt Site	e Con	ditions	S		
Acres	Available	With Condition	Not Available		5C	2A	2F	2G	2H	3H	3J
15	15	0	0	Aspen							
39	39	0	0	Cedar							
11	11	0	0	Hemlock							
1	1	0	0	Herbaceous Openland							
505	0	0	505	Lowland Conifers				154		17	334
9	0	0	9	Lowland Deciduous				9			
10	0	0	10	Lowland Mixed Forest				10			
29	29	0	0	Lowland Shrub							
84	0	0	84	Lowland Spruce/Fir				84			
394	361	6	27	Northern Hardwood	6	8	19				
12	0	0	12	Tamarack				12			
246	243	0	3	Treed Bog					3		
35	35	0	0	Upland Mixed Forest							
1,389	733	6	650	Total Forested Acres	6	8	19	269	3	17	334
	53%	0%	47%	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	2F: Too steep	19	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
(6/6/16: Rough, not c	perable terrain on knoll rising	g above b	og, and poor access to sta	and. Large, overmature wh	ite pine, yellow birch, and	good hemlock
(component create u	nique habitat.					
	component create u Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
2	•	2G: Too wet (sensitive soils, does not include	23	Unspecified	Unspecified	Unspecified	Unspecified
2	Unavailable	2G: Too wet (sensitive soils, does not include	23	Unspecified	Unspecified	Unspecified	Unspecified

Kevin LaBumbard : Examiner

Compartment: 4
Year of Entry: 2018

3	Unavailable	3H: Deer Wintering Areas	17	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Productive hemlocl	k stand that is unique to this are	ea and p	providing excellent wildlife I	habitat. Active deer yard.		
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	334	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	118	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Report 4 - Site Conditions

Compartment: 4

Year of Entry: 2018 **Kevin LaBumbard: Examiner** 9 Unspecified Unspecified Unspecified **Available** 5C: Delay treatment for 6 Unspecified age/size class diversity or exceptional site quality Comments: Harvest in FY 2017 with adjacent stand 25. Unable to edit treatment details. 3J: Water quality / Unspecified Unspecified Unspecified 16 Unavailable 2G: Too wet (sensitive 12 BMPs (stream, river, or soils, does not include lake) access issues) Comments: 3J: Water quality / Unspecified Unspecified Unspecified 17 Unavailable 2G: Too wet (sensitive 62 BMPs (stream, river, or soils, does not include lake) access issues) Comments: Unspecified Unspecified Unspecified Unspecified 19 Unavailable 2A: Adjacent landowner 8 denied access Comments: 34 9 Unspecified Unspecified Unspecified Unavailable 2G: Too wet (sensitive 3J: Water quality / soils, does not include BMPs (stream, river, or lake) access issues) Comments: 2G: Too wet (sensitive 22 Unspecified Unspecified 35 Unavailable 3J: Water quality / Unspecified BMPs (stream, river, or soils, does not include lake) access issues)

Comments:

Gwinn Mgt. Unit

Report 4 – Site Conditions

Gwinn Mgt. Unit Kevin LaBumbard : Examiner

Compartment: 4
Year of Entry: 2018

42	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
С	omments:						
43	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
С	omments:						

Compartment: 004 Year of Entry: 2018



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	
	Potential Old Growth		SCA Removal	14	
Comments					
This area no longer me	ets the criteria to be classified as a Speci	al Conservation Area.			

Gwinn Mgt. Unit Compartment: 4
Year of Entry 2018



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.

Conservation Area	n Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen stocked trout populations and those of other coldwater fish year to year. Coldwater streams in Michigan typically provid contributions of groundwater to their stream flows. Such stredesignated as trout resources by Fisheries Order 210.	species (e.g., slimy sculpin) to persist from e these conditions due to substantial
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosyste influences the aquatic ecosystem and vice-versa. Because streams and open water wetlands, riparian areas harbor a homeometries are ecologically and socially significant in their as aesthetics, habitat, bank stability, timber production, and	of the unique conditions adjacent to lakes, high diversity of plants and wildlife. Riparian effects on water quality and quantity, as well

s	Gwinn	Mgt. Unit		Report 7	– Forested	Stands Compartment: 4 Year of Entry: 2018
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4319 - Mixed Upland Forest	Poletimber Well	34.8	85	51-80	OPIC - FMD: M5F4. Stand was schedule with stand 8 and originally sold in 1999. Sale was taken back by the state and reassigned in 2004. Cutting finally completed March of 2008 under contract #034-04-01 by RLR. 2016-Stand is almost an E typesplit almost 50-50 hardwood/softwood. Lots of hemlock with good hemlock regeneration. Multiple small ridges with swales between. Occasional large supercanopy white pine and white spruce. Headwaters of the Chocolay develop within and adjacent to this stand.
2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	41.2	100	81-110	The stand has quite variable, including topography, and contains a small ridge or hill top of almost pure sugar maple sawtimber. There is a good distribution of large diameter trees, including yellow birch, soft maple, and hard maple. Hemlock and cherry are also present in the stand. The south peninsula dips to lowlands and contains more soft maple and fir. 2016-see above. Access limited due to Chocolay River headwaters and private property.
3	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	334.0	88	111-140	OPIC - FMD: A mix of swamp conifers but with a significant component of hemlock. 2016-LF too wet.
4	4110 - Sugar Maple Association	Sawtimber Well	20.5	100	111-140	OPIC - FMD: Stand was treated under permit #012-94-1. M6M7 with scattered cherry and yellow birch. Excellent maple regeneration 4-8' tall. 2016-Stand ready for second thinning.
5	4112 - Maple, Beech, Cherry Association	Poletimber Well	10.9	100	81-110	OPIC - FMD: Treated by Nelson under sale #12-94-1. Stand has lower timber productivity whith a higher percentage of soft maple. 2016-still plenty of crown room. Delay treatment until next entry.
6	6120 - Lowland Cedar	Poletimber Well	31.4	85	171-200	OPIC - FMD: Very dense cedar pole stand.
7	6120 - Lowland Cedar	Poletimber Well	7.9	85	171-200	OPIC - FMD: Very nice cedar pole stand.
8	4115 - Y.Birch, Hemlock NH	Sawtimber Medium	89.0	100	81-110	OPIC - FMD: M6M7, Pockets of S, F, H. Originally contract marked and sold in 1999, this sale was taken back by the State and reassigned in 2004. The stand is fair quality hardwood, mostly soft maple with pockets of spruce, fir, and hemlock. Cutting finally completed March of 2008 under permit # 034-04-01 by RLR.
9	4115 - Y.Birch, Hemlock NH	Sawtimber Well	5.5	100	81-110	OPIC - FMD: M6M7F4, this stand is an island of mostly soft maple and scattered yellow birch with an occasional large white pine and hemlock, over fir and soft maple seedlings. Section corner wp bearing tree looks like a signature tree.
10	4115 - Y.Birch, Hemlock NH	Sawtimber Well	5.7	100	81-110	OPIC - FMD: M6M7F4, another island of mixed hardwood with scattered fir, hemlock and white pine.
11	6124 - Lowland Spruce- Fir	Poletimber Poor	5.9	88	1-50	OPIC - FMD: Swale within stand 12

S t	Gwinn	Mgt. Unit		Report 7	– Forested	Stands Compartment: 4 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
12	4115 - Y.Birch, Hemlock NH	Sawtimber Well	33.0	100	81-110	OPIC - FMD: Poor quality, very wet, small diameter soft maple, yellow birch with fir, hemlock, cedar on the frindge. Access very limited.
13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	29.3	100	81-110	OPIC - FMD: Good to fair quality hardwood site that drops to a wetter hemlock stand along the southern edge. Terrain varies from a sandy ridge in the north to wetter soils in the south. The southern portion of the stand contains much more hemlock and fir, while cherry and huge yellow birch are scattered thru the stand. Marking prescriptions will retain all yellow birch, cherry,as well as all cedar, hemlock, white pine and supercanopy white spruce if present. Access will be from the west and must be obtained from Plum Creek. 2009-Treated under permit # 004-08-01. 2016-Excellent mixed hardwood regeneration from the 2009 treatment.
14	4115 - Y.Birch, Hemlock NH	Sawtimber Medium	16.1	100	51-80	OPIC - FMD: M6M7, Pockets of S, F, H. Originally contract marked and sold in 1999, this sale was taken back by the State and reassigned in 2004. The stand is fair quality hardwood, mostly soft maple with pockets of spruce, fir, and hemlock. Cutting finally completed March of 2008 under permit # 034-04-01 by RLR.
16	6121 - Tamarack	Poletimber Poor	12.0	85	1-50	OPIC - FMD: Tamarack swamp with white pine and occasional black spruce. Understory is a mix of stunted black spruce and tamarack.
17	6122 - Black Spruce	Poletimber Well	62.1	92	51-80	OPIC - FMD: Very wet stunted black spruce and tamarack bog with small black spruce in the understory.
19	4119 - Mixed Northern Hardwoods	Poletimber Well	9.8	100	81-110	OPIC - FMD: M6M7, Pockets of S, F, H. Originally contract marked and sold in 1999, this sale was taken back by the State and reassigned in 2004. The stand is fair quality hardwood, mostly soft maple with pockets of spruce, fir, and hemlock. Access will be over private land and much of the sale can only be cut when the ground is frozen.
20	4113 - R.Maple, Conifer	Sawtimber Well	10.2	100	81-110	OPIC - FMD: SCA-Hardwood island surrounded by black spruce/sphagnum bog. Hardwood is mostly poor quality soft maple with pockets of large diameter hemlock, yellow birch, fir, and an occassional white pine. Numerous pink lady slippers in the understory. Excellent candidate for biodiversity reference area.
21	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	22.9	180	111-140	OPIC - FMD: Treated under permit # 040-88-01 cutting wasn't finished until 1994. The ridgetop and north slope contains more sugar maple, hemlock, and yellow birch while south of the ridge consists of almost pure soft maple. 6/6/16: Created new stand for low, wet hemlock areas. No
						treatment.

S	Gwinn	Mgt. Unit		Report 7	– Forested	Stands Compartment: 4 Year of Entry: 2018
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4115 - Y.Birch, Hemlock NH	Poletimber Well	19.2	180	81-110	OPIC - FMD: Treated in 1994, current stocking levels are all over the place. Scattered throughout the stand are large cherry, and huge yellow birch. The stand also contains pockets of hemlock. The understory is primarily soft maple with a lighter stocking of fir.
						6/6/16: Rough, not operable terrain on knoll rising above bog, and poor access to stand. Large, overmature white pine, yellow birch, and good hemlock component create unique habitat.
23	4115 - Y.Birch, Hemlock NH	Sawtimber Well	28.8	100	81-110	OPIC - FMD: M6M7, CUT PRMT # 046-88-01, FINISHED 1994 Originally sold under permit # 046-88-01, cutting was completed in 1994. Basal area is still too low for another thinning. Stand is primarily a soft maple stand with yellow birch , cherry, and a few large white pine. Scattered hemlock pockets. Regeneration is M3/F2.
24	613 - Lowland Mixed Forest	Poletimber Well	10.0	86	51-80	OPIC - FMD: Depression of black spruce, some soft maple and scattered white pine over tag alder.
25	4112 - Maple, Beech, Cherry Association	Poletimber Well	29.2	180	81-110	OPIC - FMD: Treated under permit # 040-88-01 cutting wasn't finished until 1994. The ridgetop and north slope contains more sugar maple, hemlock, and yellow birch while south of the ridge consists of almost pure soft maple.
						6/6/16: Same comments as previous; except created new stand out low hemlock spots .
26	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.6	78	111-140	OPIC - FMD: Former F stand, most of the fir is dead and down. The hardwood is mostly soft maple, with lots of clumps and low forks. About 5-10 basal area of hemlock poles and occasional cherry. Stand contains a scattering of supercanopy white spruce, and fir. Winter access only through private land. Retain all white pine, cedar, hemlock, and other supercanopy conifers. ***Tried to negotiate, but not enough volume and prices too high.
						6/6/16: Remnant white pine, hemlock in knoll over wetland. Difficult access.
28	4113 - R.Maple, Conifer	Sapling Well	3.1	27	Immature	OPIC - FMD: M2F1, 10-15' tall, sprouts from sale # 040-88-01.
29	4113 - R.Maple, Conifer	Poletimber Well	3.8	100	81-110	OPIC - FMD: Cut the winter of 2005 under permit # 003-02-01. Good regen from seed and stump sprouting.
30	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	16.8	85	81-110	OPIC - FMD: Excellent hemlock stand between two hardwood ridges.
	Polest					6/6/16: Unique rolling topography and great hemlock growth. Potential old growth stand.
31	4130 - Aspen	Sapling Well	13.8	28	Immature	OPIC - FMD: A3, 2-5" 20-30' tall.
32	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	118.4	80	51-80	OPIC - FMD: Lowland conifer swamp stand.

s t	Gwinr	n Mgt. Unit		Report 7	– Forested	Stands Compartment: 4 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	4110 - Sugar Maple Association	Sawtimber Well	12.6	180	81-110	OPIC - FMD: Predominantly sugar maple with occasional large yellow birch, cherry, hemlock, and white spruce. About 10 ba of mixed softwoods. The maple has low forks and often in clumps.
34	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	9.3	94	81-110	OPIC - FMD: E4Q4Q3, stand is mostly black ash, red maple with cedar.
35	6122 - Black Spruce	Poletimber Poor	21.9	94	1-50	OPIC - FMD: Very wet, thin black spruce swamp with tamarack, and occasional white pine.
36	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.5	100	81-110	OPIC - FMD: Narrow band of hardwoods between private land to the south and black spruce swamp to the north. 6/6/16 Field notes: Low-moderate quality red maple stand with hemlock and yellow birch components.
37	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.7	180	81-110	OPIC - FMD: 2016- Mostly high ground with lower areas. Red maple with cherry, scattered yellow birch and heavy fir understory.
38	4112 - Maple, Beech, Cherry Association	Sapling Well	7.0	28	Immature	OPIC - FMD: M3,F2,A1 10-20' tall.
44	42350 - Upland Hemlock	Sawtimber Well	10.9	85	81-110	OPIC - FMD: Excellent hemlock stand with large yellow birch on the southern edge of stand 13.
45	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	6.9	88	81-110	OPIC - FMD: A mix of cedar, hemlock, black spruce and yellow birch.
401	4130 - Aspen	Sapling Medium	1.5	18	Immature	OPIC - FMD: G-GRASS OPENING Former grass opening fully stocked to aspen saplings with birch.

Compartment: 4
Year of Entry: 2018



Stand	Cover Type	Acres	Managed Site	General Comments:
15	6229 - Mixed lowland shrub	28.8	No	OPIC - FMD: Tag alder
18	6224 - Treed Bog	245.5	No	OPIC - FMD: Stunted black spruce and tamarack with tag alder. Multiple small islands within.
400	310 - Herbaceous Openland	0.6	No	OPIC - FMD: G-GRASS OPENING