

Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32298 Entry Year 2018 Acreage: 952

County Marquette

Management Area: Huron Mountains

Revision Date: 2016-08-08

Stand Examiner: Jason Caron

Legal Description:

T49N - R27W. Sections 16, 21, 28: T49N - R26W. Sections 21, 22: T50N - R27W. Section 18.

Identified Planning Goals:

Timber harvest to promote regeneration and improve wildlife habitat.

Soil and topography:

This compartment is in different areas of Marquette County. The soils and topography vary greatly with each area.

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

Private land surrounds each piece of this compartment. Development consists of small cottages. Land use in and around the compartment consist primarily of hunting and gathering.

Unique Natural Features:

Rocky and rugged terrain in some locations. The Yellow Dog River flows through section 18 of this compartment.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Compartment 298 is found within the Huron Mountains Management Area; on a Bedrock-Controlled Ground Moraines and till-floored lake plains in northern Baraga and Marquette Counties. Most of the natural communities in this area are mesic northern forests and poor conifer swamps. Major forest cover types include Northern Hardwood, Aspen and Hemlock. The area receives significant snowfall and represents almost 20% of the WUP State Forest hemlock resource. This area provides critical wintering habitat for white tailed deer, especially along the Lake Superior shoreline. Additionally, some of the largest tracts of mature forest in the Great Lakes (e.g. McCormick Tract, Craig's Lake Wilderness State Park, and the Huron Mountain Club) occur within or adjacent to this management area. The current condition and spatial arrangement of these areas provide some of the best opportunities within the WUP, state, and Great Lakes for area sensitive wildlife that require large tracts of mature forest, mesic conifer or corridors between such areas. The wildlife priority here is to manage for old growth forest characteristics, in a fairly un-fragmented condition, with particular emphasis on protecting the hemlock component. This strategy will protect thermal cover, provide for wildlife movement corridors, and provide habitat for a variety of species. This includes minimizing habitat fragmentation; insuring adequate course woody debris; retain or develop large living and dead standing trees (for cavities); mesic conifer; mature forest; within-stand diversity; closed canopy forest; and deer wintering complexes.

The following have been identified as featured species for the Huron Mountains Management Area: American Marten, Blackburnian Warbler, and White-Tailed Deer.

Mineral Resource and Development Concerns and/or Restrictions

Sections 21 & 22, T49N R26W, sections 16, 21, & 28, T49N R27W and Section 18, T50N R27W, Marquette County Surface sediments are thin to discontinuous in the area. Where glacial drift is present, it consists of glacial outwash sand and gravel, postglacial alluvium, and coarse-textured till. Glacial drift is typically less than 50 feet thick in the area. The Proterozoic Michigamme Formation, Archean volcanics, and Archean granite/gneiss subcrop below the glacial drift. The granite/gneiss could be used as dimension stone. There appears to be a sand/gravel pit located in Section 22 (T49N R27W), but additional potential appears to be limited. Abandoned iron mines are located several miles to the south. There are a number of gold (and other sulfide minerals) prospects in the vicinity of the compartment associated with the Archean

volcanics. Several of these sections were previously leased for metallic mineral exploration and development. There is no economic oil and gas production in the UP.

Vehicle Access:

Vehicle access is poor within most areas of this compartment due to the rugged/rocky terrain.

Survey Needs:

No survey needed.

Recreational Facilities and Opportunities:

No recreational facilities exist. Recreational opportunities consist of hunting, fishing, and trapping.

Fire Protection:

Fire protection is an issue within this compartment due to the lack of roads and good access. The rocky hills are known for lightening strike fires in later summer.

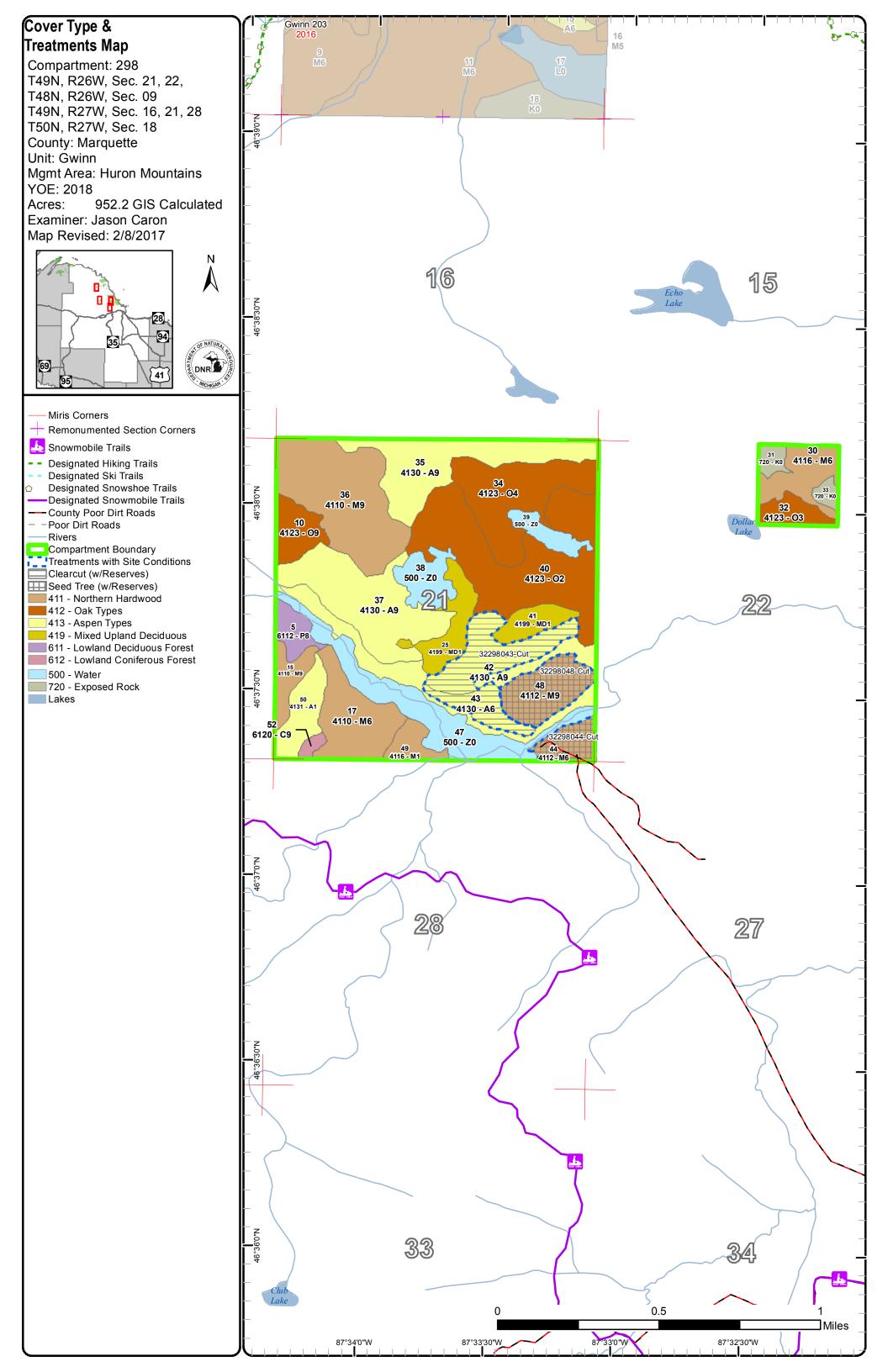
Additional Compartment Information:

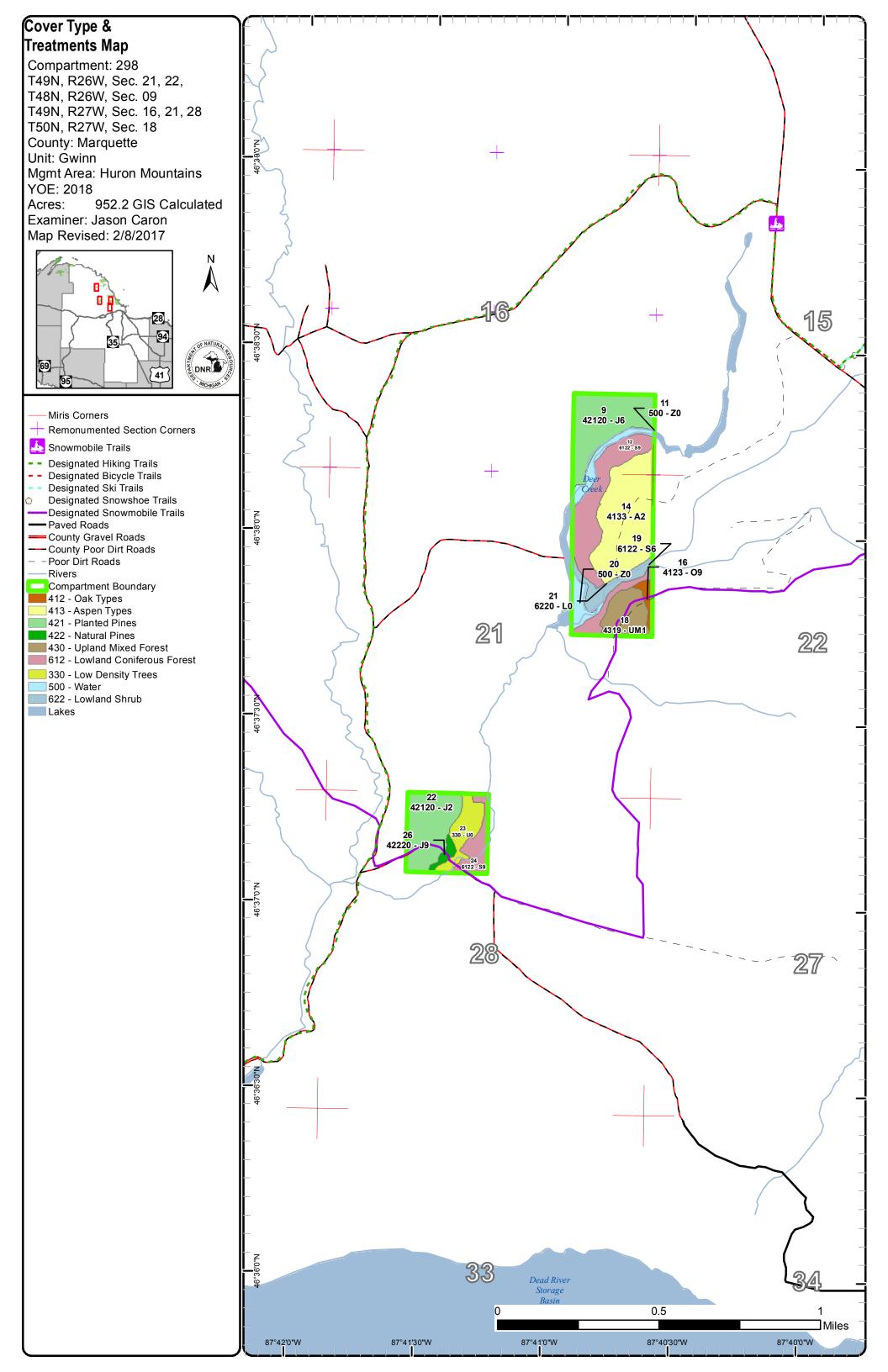
The following reports from the Inventory are attached:

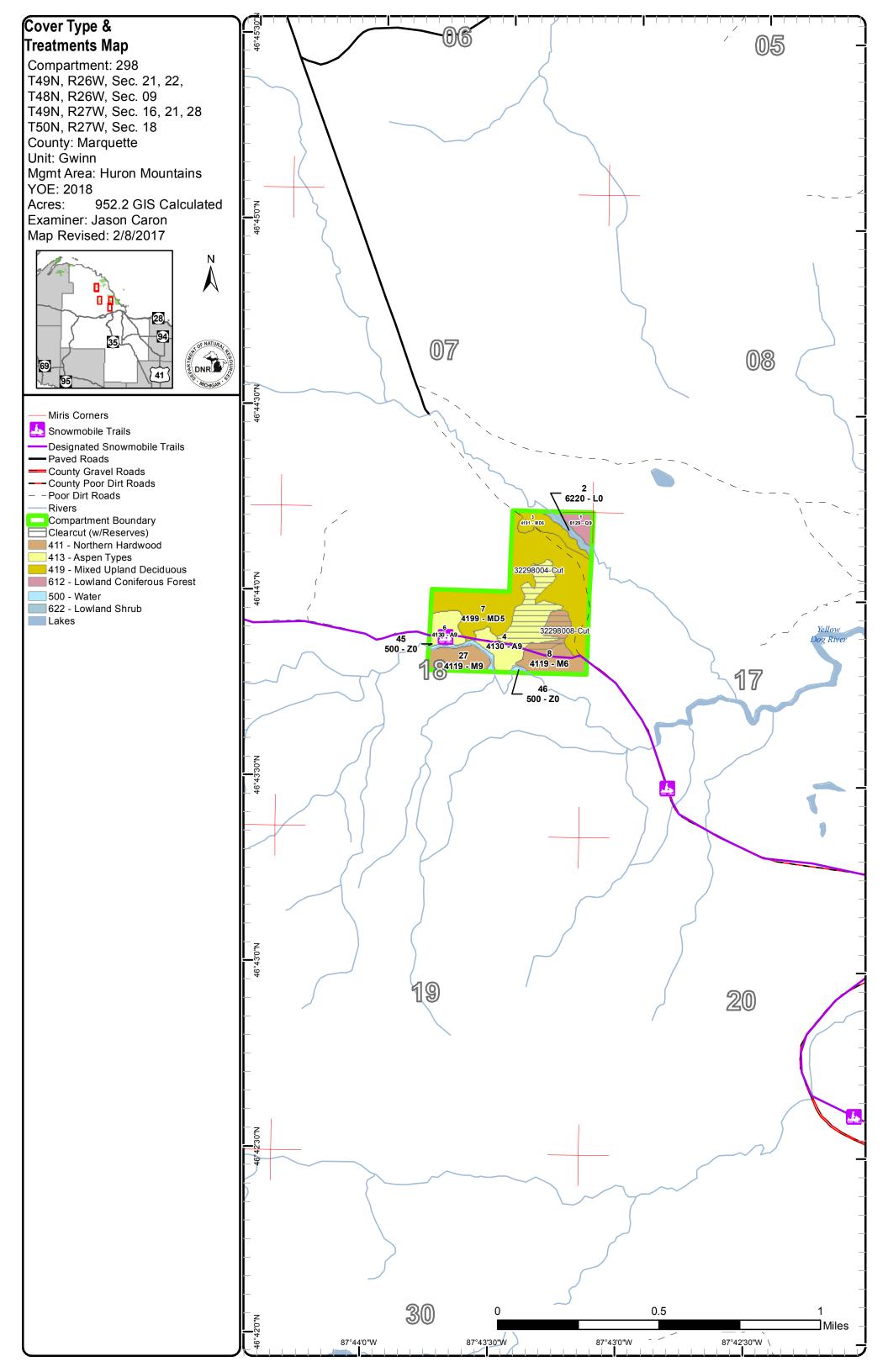
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

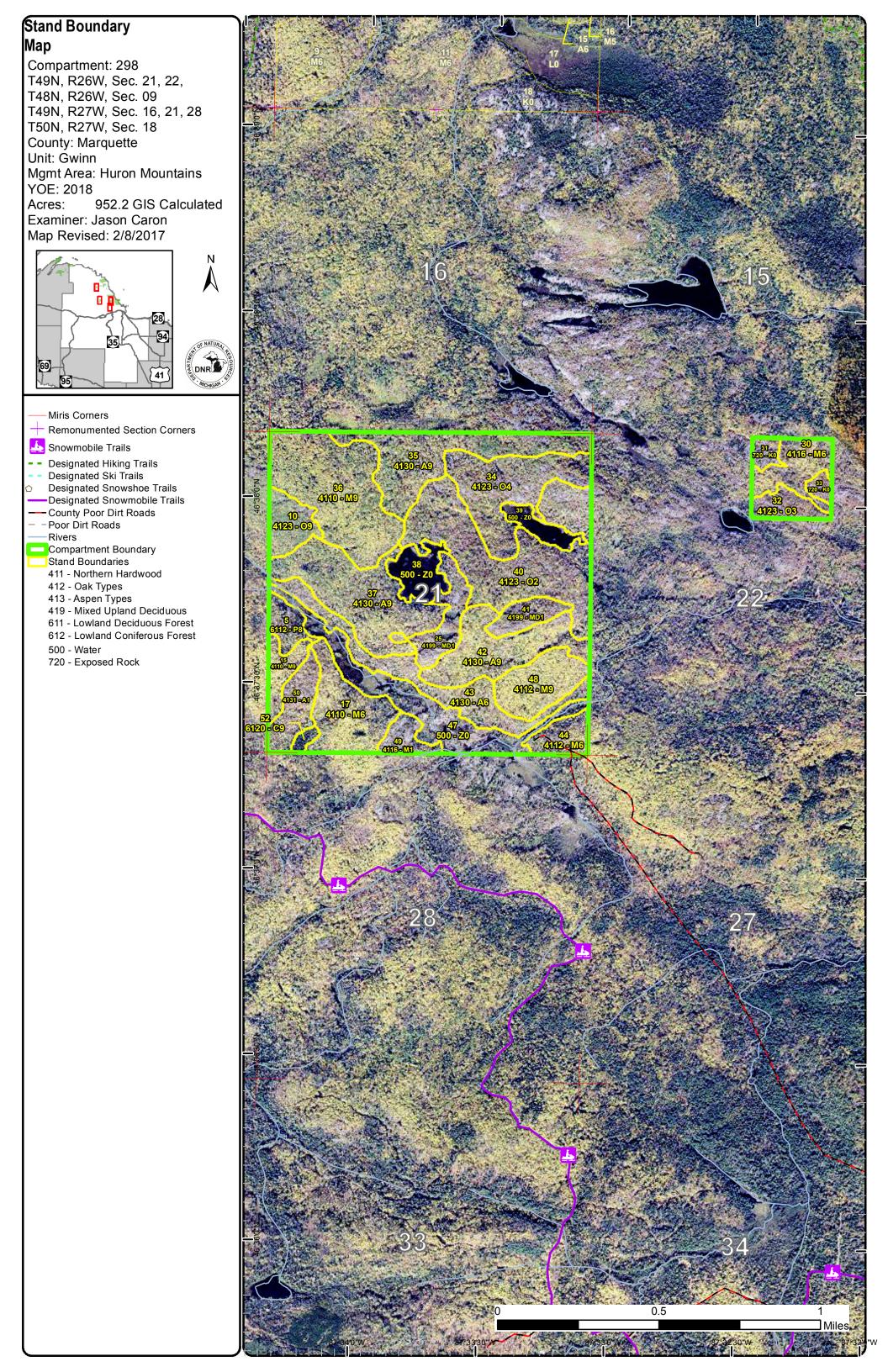
The following information is displayed, where pertinent, on the attached compartment maps:

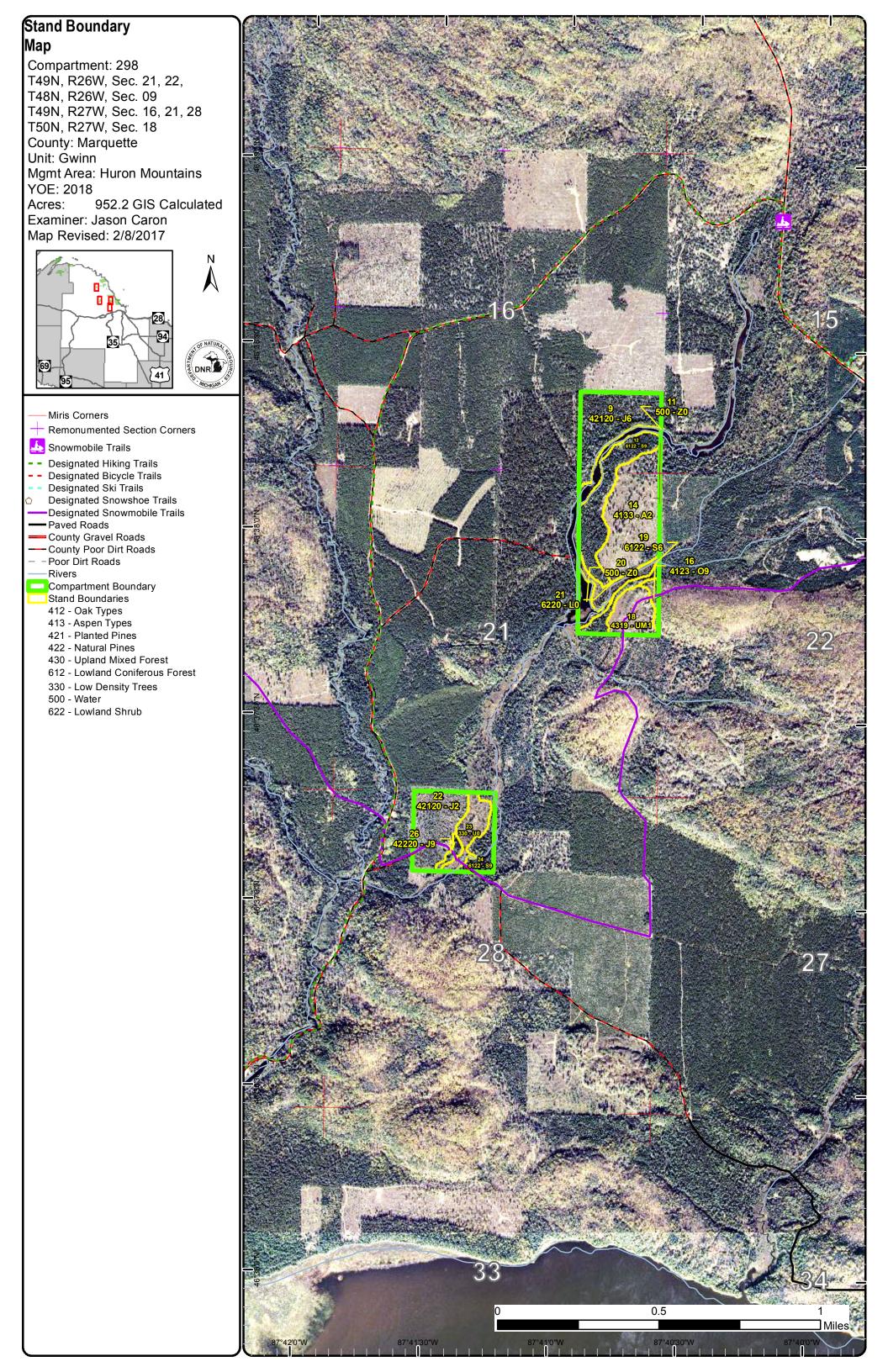
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

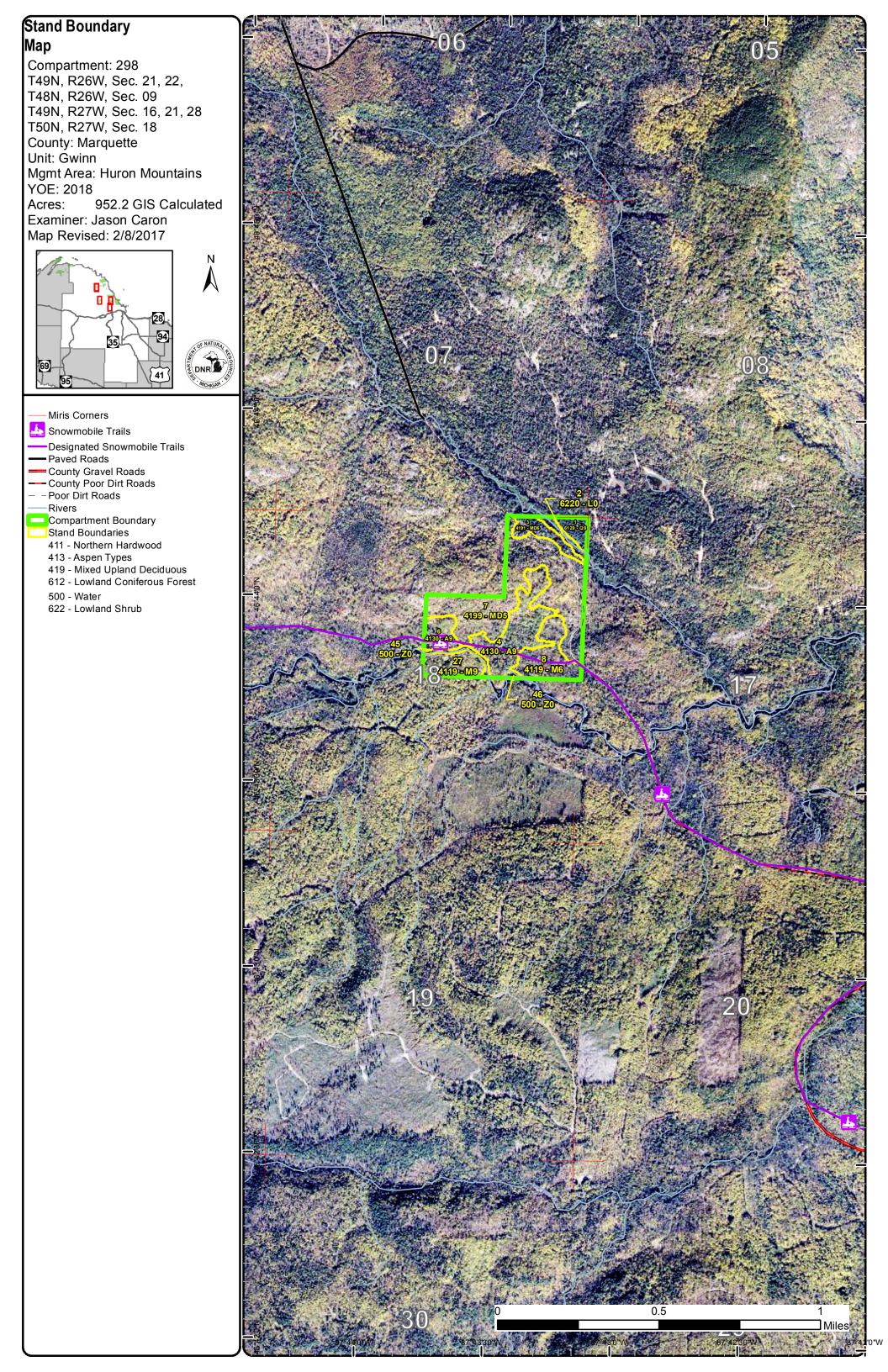


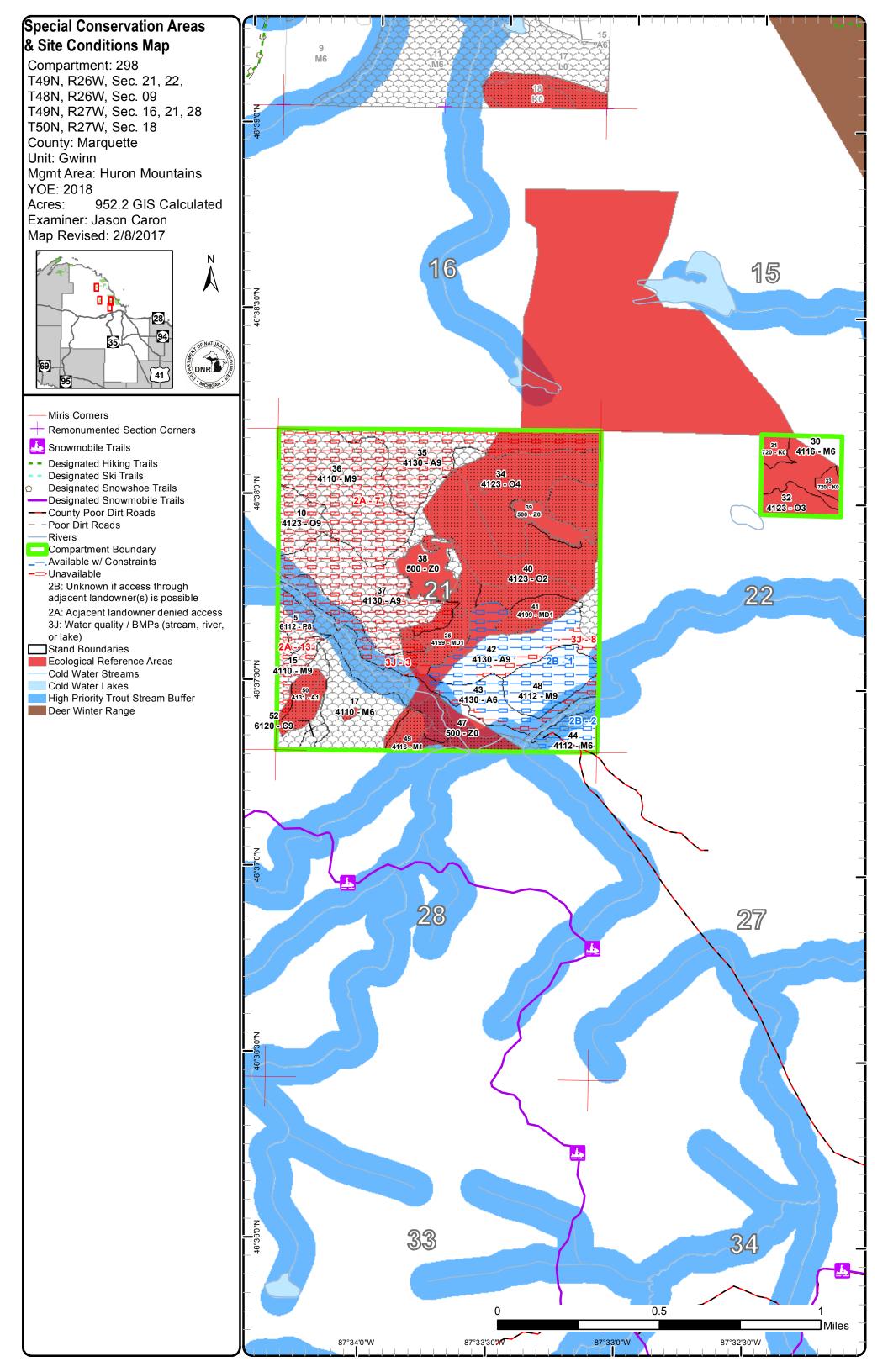


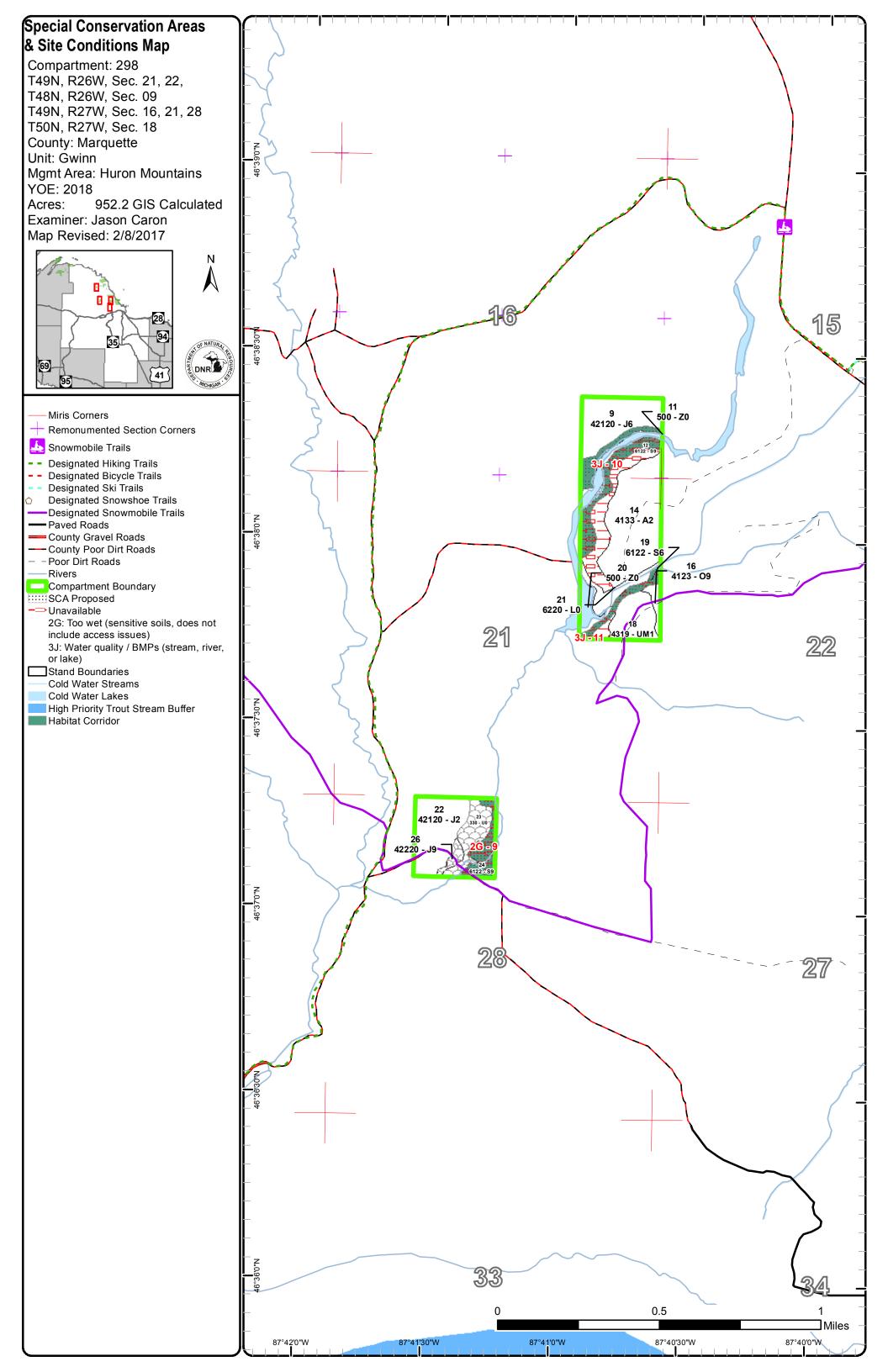


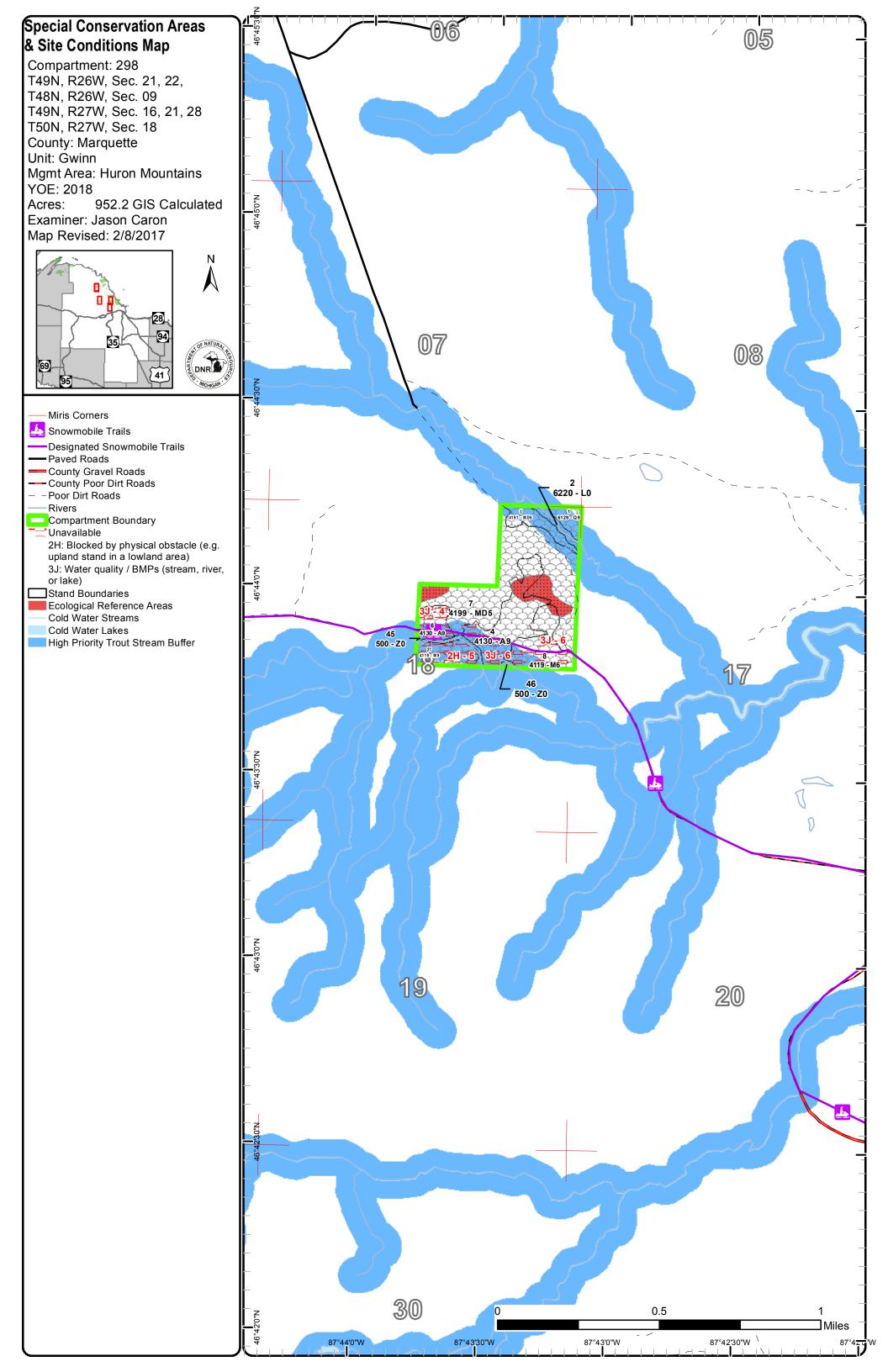












Gwinn Mgt. Unit

Jason Caron: Examiner

Compartment 298 Year of Entry 2018



Age Class

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Aspen	0	37	0	0	18	0	0	210	6	0	0	0	0	0	0	0	0	0	271
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
Exposed Rock	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Jack Pine	0	0	0	21	0	25	0	0	2	0	0	0	0	0	0	0	0	0	47
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4
Lowland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	8	27	0	0	0	0	0	0	0	35
Mixed Upland Deciduous	0	0	0	12	70	6	0	0	0	0	0	0	0	0	0	0	0	0	88
Northern Hardwood	0	0	0	0	10	0	0	62	123	11	0	0	0	0	0	0	0	0	206
Oak	0	0	0	0	99	48	0	0	18	0	0	0	0	0	0	0	0	0	165
Upland Mixed Forest	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
Total	111	49	0	33	197	79	0	272	149	29	27	0	0	0	0	0	7	0	952



Report 2 – Treatment Summary

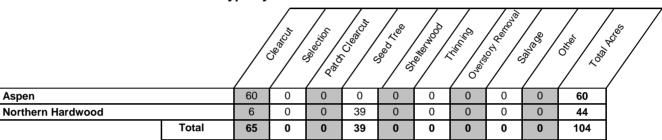
Gwinn Mgt. Unit Year of Entry: 2018

Acres of Harvest

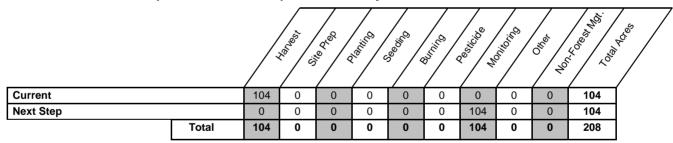
Compartment 298
Total Compartment Acres: 952

Commercial Harvest - 21 Harvests with Site Condition - 82 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



t a										,	DNR DNR
n d	Treatment Name	Acres	Stand CoverType	Size S Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
4	32298004-Cut	15.5	4130 - Aspen	Sawtimber Well	67	Unspec ified	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition:

Prescription Clear cut with reserves. Do not cut under-represented trees such as pine, basswood, oak, and yellow birch. Leave a patch of mature timber to Specs:

meet retention guidelines. Retention should include some large big toothed aspen.

Put a harvest restriction on this stand for summer cut only due to snowmobile trail concerns.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, oak, aspen, fir, spruce, birch, and pine.

Regen:

S

Other Steep terrain and rocky areas exist within this stand. Sale boundary may vary due to the terrain.

Comment:

Proposed Start Date: 10/01/2017

32298008-Cut 4119 - Mixed Poletimber Draft Field 5.8 67 81-110 Harvest Clearcut with 4134 - Aspen, Even-Aged Northern Hardwoods Well Retention Spruce/Fir Boundary

Habitat Cut: No Site Condition:

Prescription Clear cut with reserves. Cut some oak if oak BA is high. If oak BA is low, do not cut. Do not cut under-represented trees such as pine,

Specs: basswood, and yellow birch. Leave a patch of mature timber to meet retention guidelines.

Put a harvest restriction on this stand for summer cut only due to snowmobile trail concerns.

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable maple, spruce, fir, pine, oak, birch.

Regen:

Other Sale boundary may vary due to drainages that exist. Exclude wet areas and drainages. Good retention areas.

Comment:

Oak harvest should be very low (25%) and rely on the opening created when removing the red maple for regeneration - Important deer corridor.

10/01/2017 Proposed Start Date:

43 32298043-Cut 44.0 4130 - Aspen Poletimber 69 81-110 Harvest Clearcut with 4134 - Aspen. Even-Aged Draft Field Well Retention Spruce/Fir Boundary

Site Condition: Unknown Access **Habitat Cut: No**

Prescription Clearcut with reserves. Do not cut under-represented species such as oak, basswood, and pine. Retention should include some large big toothed

Specs: aspen.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, spruce, pine, fir, oak, maple, and birch.

Regen:

Other Sale boundary may vary due to drainages that exist.

Comment:

Proposed Start Date: 10/01/2017

32298044-Cut 12.6 4112 - Maple, Poletimber 111-Harvest Seed Tree with 411 - Northern Draft Field Even-Aged Beech, Cherry Well 140 Retention Hardwood Boundary Association

Habitat Cut: No Site Condition: Survey Needed

Prescription Seed tree harvest to promote maple regeneration. Do not cut oak & pine. Leave a buffer along the stream for both BMP & retention purposes Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable maple, spruce, pine, fir, aspen, oak, and birch.

Regen: Other

Comment:

10/01/2017 **Proposed Start Date:**

Gwinn Mgt. Unit Report 3 -- Treatments Compartment: 298 s Year of Entry: 2018 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type Approval** Age n Objective Method d Name CoverType Density Age Range Type Structure **Status** 4112 - Maple, 32298048-Cut 411 - Northern 48 25.9 Sawtimber 69 81-110 Harvest Seed Tree with Even-Aged Draft Field Beech, Cherry Well Retention Hardwood Boundary Association **Habitat Cut: No** Site Condition: Unknown Access Prescription Seed tree harvest this stand to promote regeneration of maple via. stump sprouts. Focus on leaving some under-represented trees within the stand such as oak and basswood. Use the sale boundary (red line) to exclude areas for retention purposes. Retention should include some large Specs: big toothed aspen. Monitoring, Natural Regen (Re-Inventory) Next Step Treatments: Acceptable maple, aspen, pine, oak, birch, fir, and spruce. Regen:

Proposed Start Date: 10/01/2017

Other Comment:

Total Treatment Acreage Proposed: 103.8

Gwinn Mgt. Unit

Jason Caron : Examiner

Compartment: 298
Year of Entry: 2018

Availa	ability for	Managemen	nt							
Total	Acres	Acres Avail	Acres	De	omina	nt Site	Cond	dition	s	
Acres	Available	With Condition	Not Available		2B	21	2A	2G	2H	3J
271	70	44	157	Aspen	44		108			49
3	3	0	0	Cedar						
8	8	0	0	Exposed Rock						
48	48	0	0	Jack Pine						
9	9	0	0	Low-Density Trees						
10	0	0	10	Lowland Aspen/Balsam Poplar			10			
4	4	0	0	Lowland Conifers						
9	9	0	0	Lowland Shrub						
36	0	0	36	Lowland Spruce/Fir				8		27
88	88	0	0	Mixed Upland Deciduous						
205	71	39	96	Northern Hardwood	26	13	79		9	9
165	150	0	15	Oak			15			
12	12	0	0	Upland Mixed Forest						
85	85	0	0	Water						
952	557	83	313	Total Forested Acres	70	13	212	8	9	85
	59%	9%	33%	Relative Percent						

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	2B: Unknown if access through adjacent landowner(s) is possible	70	2D: Portable Bridge Needed (Dept. bridge will be adequate)	2I: Survey needed	Unspecified	Unspecified
	comments: Inknown if Hancocl	k will let us into this area to cເ	ut. The st	and(s) also need a bridge a	and survey.		
2	Available	2l: Survey needed	13	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
C	Comments:						

Report 4 - Site Conditions

Compartment: 298

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Unspecified Unspecified Unspecified 3 Unavailable 3J: Water quality / BMPs 26 Unspecified (stream, river, or lake) Comments: 4 Unavailable 3J: Water quality / BMPs 6 2F: Too steep Unspecified Unspecified Unspecified (stream, river, or lake) Comments: Southern end of the stand is a buffer against the yellow dog river. Stand is also too steep to operate. 5 Unavailable 2H: Blocked by physical 9 3J: Water quality / Unspecified Unspecified Unspecified BMPs (stream, river, or obstacle (e.g. upland stand in a lowland area) lake) Comments: No roads exist through private land to harvest this stand. Also, the northern half would have to be buffered due to the yellow dog river. Unspecified 6 Unavailable 3J: Water quality / BMPs 15 Unspecified Unspecified Unspecified (stream, river, or lake) Comments: A small seep/intermittent stream exists within this corner of the stand. Unspecified Unspecified 2A: Adjacent landowner 2E: Road needed Unavailable 191 Unspecified denied access Comments: Heartwood Forest will not allow us access through their property. Also, numerous flowages and physical obstacles exist which would make access extremely difficult. 8 Unavailable 3J: Water quality / BMPs Unspecified Unspecified Unspecified Unspecified 10 (stream, river, or lake) Comments: A small stream exists within the bottom of a ravine here.

Report 4 - Site Conditions

Compartment: 298
Year of Entry: 2018

Gwinn Mgt. Unit

Heartwood Forest will not allow us access through their property to access these stands.

Jason Caron: Examiner

Comments:

Unspecified 9 Unavailable 2G: Too wet (sensitive 8 Unspecified Unspecified Unspecified soils, does not include access issues) Comments: 3J: Water quality / BMPs 22 Unspecified Unspecified Unspecified Unspecified 10 Unavailable (stream, river, or lake) Comments: Stands acts as a buffer along the deer creek. 11 Unavailable 3J: Water quality / BMPs 6 Unspecified Unspecified Unspecified Unspecified (stream, river, or lake) Comments: Stand acts as a buffer against a small stream. 13 2E: Road needed Unspecified Unspecified Unspecified Unavailable 2A: Adjacent landowner 21 denied access

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Gwinn Mgt. Unit

Compartment: 298
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	5
Comments				
	Potential Old Growth		SCA Removal	109
Comments				
Unspecified	Habitat Areas or Corridors	Habitat Corridor	Proposed SCA	8
Comments SCA = Acts as a buffer to	the Deer Creek. Stand provides va	luable cover for wildlife. Grades	to more of an S type to the north.	
Unspecified	Habitat Areas or Corridors	Habitat Corridor	Proposed SCA	20
Comments SCA = Acts as a buffer to	the creek and pond.			

Gwinn Mgt. Unit Compartment: 298
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* 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	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen condition stocked trout populations and those of other coldwater fish specific conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	ies to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish speci year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	ies (e.g., slimy sculpin) to persist from see conditions due to substantial
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effer as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian cts on water quality and quantity, as well
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of identified as Element Occurrences (EOs) by the Michigan Natura context of their natural community classification system. Elemen (Excellent) or B (Good) and a Global (G) or State (S) element (rathreatened (2), or rare (3) serve as an initial base of ERAs. They the State. The system is comprised of individual or associations managed for restoration and maintenance of natural ecological psubmit recommendations for lands as ERAs using the DNR Consequence.	al Features Inventory (MNFI) within the toccurrences with viability ranks of A arity) ranking of endangered (1), may be located upon any ownership in of natural community types that are processes and values. The public may

S	Gwinn	Mgt. Unit		Report 7	– Forested	Stands Compartment: 298 Year of Entry: 2018
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	4.1	180	171-200	Stand acts as a buffer to the Lost Creek. Stand consists of old growth hemlock mixed with a few cedar and red maple. A small sliver of high ground exists in the NE corner with some large white pine on it. I do see a couple of old stumps within the stand, I feel it should be classified at Type 2 OG.
3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	6.1	46	81-110	Stand acts as a buffer to the Lost Creek and is also good wildlife cover. Stand consists of red maple mixed with balsam fir and white pine. Stand is young and in good condition. The white pine is poorer quality.
4	4130 - Aspen	Sawtimber Well	22.3	67	Unspecified	OI notes state: MNFI has documented the presence of Granite and Metamorphic Bedrock Glade in this area.2016- Stand of old big tooth aspen mixed with maple and oak. Big tooth aspen is decent quality but is old.
5	6112 - Lowland Aspen	Sawtimber Medium	9.9	81	51-80	Stand was split from the M9 stand to the south. Seeps coming out of the southern stand create this lowland aspen type that has a mix of black ash and aspen. Aspen are old and the majority of the stand is converting over to more of an ash type.
6	4130 - Aspen	Sawtimber Well	6.4	72	Unspecified	Former OI notes state: MNFI has documented the presence of Granite and Metamorphic Bedrock Glade in this area. Stand contains pockets of mature big tooth aspen. Outside of these aspen pockets the stand consists small diameter red maple with a few oak. Stand is on a hillside sloping toward the Yellow Dog river. A small flowage/ravine exists within the middle of the stand.
7	4199 - Other Mixed Upland Deciduous	Poletimber Medium	51.3	31	Immature	OI notes state: MNFI has documented the presence of Granite and Metamorphic Bedrock Glade in this area. 2016- The majority of this stand is growing on rock. Rugged terrain throughout. Maple and oak are mostly sapling sized to small pole sized. Old pine stumps present from long ago cutting.
8	4119 - Mixed Northern Hardwoods	Poletimber Well	14.8	67	81-110	OI notes state: MNFI has documented the presence of Granite and Metamorphic Bedrock Glade in this area. 2016- Stand of poorer quality red maple and scattered oak. A few basswood scattered within the stand as well.
9	42120 - Planted Jack Pine	Poletimber Well	25.2	45	51-80	Old OI notes say the stand was cut between 1966 and '68. I cored a tree and added the age, which came out to 44 years old. Overall, the stocking of JP within the stand is low but the stand is healthy and the trees have decent form. A few white pine and black spruce are scattered amongst the stand. Jack pine within the stand is a mix of poles and logs.
10	4123 - Red Oak	Sawtimber Well	15.0	71	111-140	A solid stand of good quality oak. Stand is growing on hilly/rocky ground.
12	6122 - Black Spruce	Sawtimber Well	21.7	96	Unspecified	Stand of good quality black spruce mixed with a few white pine and jack pine. Stand is holding up well but does have some pockets of dwarf mistletoe within it. Maintain the stand as a riparian corridor. The stand borders the Deer Creek.

S	Gwini	n Mgt. Unit		Report 7	– Forested	Stands Compartment: 298 Year of Entry: 2018
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	4133 - Aspen, Mixed Pine	Sapling Medium	36.7	7	Immature	Stand harvested summer of 2010. TS #128-08 using two processer's and a forwarder. Stand was harvested during a very dry summer. Stand consists of patchy aspen regeneration. The areas with no aspen regeneration consist of jack pine, cherry, balsam fir and red maple. Scattered mature white pine throughout the stand.
15	4110 - Sugar Maple Association	Sawtimber Well	10.9	81	81-110	Stand consists of sugar maple poles and logs of poorer quality. A few basswood exist scattered throughout the stand.
16	4123 - Red Oak	Sawtimber Well	2.6	71	81-110	Small stand of hardwood consisting of poorer quality sugar maple and large diameter oak. A mix of balsam, ironwood, and sugar maple within the understory.
17	4110 - Sugar Maple Association	Poletimber Well	34.8	72	81-110	Stand of mostly sugar maple, east side contains mostly poles. The west side transitions into more of a log stand. Hardwood is decent quality. A few streams exist within the stand along with a few rock outcroppings. Aspen is along the north edge but is falling out of the stand. Not much for regeneration within the understory.
18	4319 - Mixed Upland Forest	Sapling Poor	11.7	7	Immature	Stand harvested in 2010. TS# 128-08. Stand consists of patchy regeneration. Patches of jack pine and aspen regeneration, but sparse. Red maple stump sprouts here and there. The balsam fir that exists is mostly what had already existed before the timber sale. The stand should fill in over time.
19	6122 - Black Spruce	Poletimber Well	5.5	96	Unspecified	Small strip of lowland that acts as a riparian buffer along stream edge.
22	42120 - Planted Jack Pine	Sapling Medium	20.5	24	Immature	Stand was cut in 1990 and planted in 1993 (TS#18-88). When planted in 1993, the effort failed. The stand was again planted in 2006. The result is a two aged stand of jack pine. The initial plant resulted in open grown jack pine of poor form and coarse branches. Black spruce and cherry have seeded in as well, but in low density.
24	6122 - Black Spruce	Sawtimber Well	8.3	81	Unspecified	Lowland stand that acts as a riparian corridor to the creek. Wet seeps throughout the stand. Maintain as a riparian corridor. Pockets of large diameter cedar exist within the stand.
25	4199 - Other Mixed Upland Deciduous	Sapling Poor	18.9	31	Immature	Poor quality, suppressed trees growing on top of rock. The majority of the trees are all sapling size.
26	42220 - Natural Jack Pine	Sawtimber Well	1.9	73	Unspecified	Small stand that acts as a buffer to the Deer Creek. Maintain as a riparian corridor.
27	4119 - Mixed Northern Hardwoods	Sawtimber Well	8.6	69	81-110	Stand acts as a buffer to, and contains the floodplains of, the Yellow Dog River. Contains springs and seeps that feed the river's watershed. Made an edge call on this stand, I couldn't get across the Yellow Dog River.
30	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	20.1	71	1-50	Stand of old aspen that has converted over to an M type. Scattered large big tooth throughout, but they are dying out and in very poor condition.

S t	Gwin	n Mgt. Unit		Report 7	Forested	Stands Compartment: 298 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	4123 - Red Oak	Sapling Well	10.9	31	Immature	Stand of young oak with a few scattered red maple mixed in.
34	4123 - Red Oak	Poletimber Poor	48.3	41	1-50	Stand is entirely growing on rock with scattered trees throughout. Oak is two-aged with larger diameter trees being extremely short and stubby.
35	4130 - Aspen	Sawtimber Well	49.5	69	81-110	Poor quality aspen mixed with pole sized red maple. Pockets of aspen blown down from previous windstorm. Seeps within the western part of the stand.
36	4110 - Sugar Maple Association	Sawtimber Well	67.7	71	81-110	Stand of large diameter hardwood on glacial moraine type ground. Long ridges throughout the stand. Stand is sloping down to the north. Evidence of a past windstorm exist with uprooted trees throughout the stand. Sugar maple regen is thick and is 2-3' high in areas with canopy gaps (blowdown).
37	4130 - Aspen	Sawtimber Well	58.5	69	81-110	Stand contains a mix of oak, aspen and paper birch. Oak is decent quality. Aspen and birch are falling apart due to age. Red maple is more concentrated along the east side of the stand.
40	4123 - Red Oak	Sapling Medium	88.2	31	Immature	A very rugged, rocky stand with mostly sapling sized timber growing on it due to the shallow soils. A lot of oak in the 2-4" range. Scattered larger oak in the 10-12" range.
41	4199 - Other Mixed Upland Deciduous	Sapling Poor	11.5	21	Immature	Poor quality, suppressed trees growing on top of rock. The majority of the trees are all sapling size.
42	4130 - Aspen	Sawtimber Well	41.0	69	111-140	Stand of poor quality, large diameter aspen. Pole sized maple exists within the understory. Numerous East/West drainages exist within the stand. Large rolling hills throughout the stand.
43	4130 - Aspen	Poletimber Well	39.1	69	81-110	An old stand of aspen that is in decline. Aspen is falling out and red maple will eventually take over. Part of the stand was formerly on contract, but was given back to the state due to access.
44	4112 - Maple, Beech, Cherry Association	Poletimber Well	12.6	69	111-140	Stand of pole sized hardwood. Stem quality is poor. A thick understory of sapling sized balsam fir exists.
48	4112 - Maple, Beech, Cherry Association	Sawtimber Well	25.9	69	81-110	Stand of hardwood poles of poorer quality, not many crop trees exist. Stand was previously marked and on contract but the sale was given back. The stand does not appear to have been managed before.
49	4116 - Mixed N. Hardwood - Aspen	Sapling Poor	9.5	32	Immature	Stand mostly consists of rock with a small patch of aspen, red maple and yellow birch on the east side. A small stream exists on the east side as well. Small diameter red maple, white spruce, balsam, cherry and quaking aspen are growing amongst the rock. Stand could be considered non-forested but has enough trees growing amongst the rock to be forested.

S t	Gwin	n Mgt. Unit		Report 7	– Forested :	Stands	Compartment: 298 Year of Entry: 2018	DNR	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:		
50	4131 - Aspen, Oak	Sapling Poor	17.7	31	Immature	rock outcrop. I cou forested but it did hav stand. Patchy aspe Trees are very stun	rse sapling sized trees growing the same sized that same sized the same sized that same sized enough canopy to push it to same sized and have numerous dead due to growing conditions.	tand non- o a forested g on rock.	
52	6120 - Lowland Cedar	Sawtimber Well	2.6	152	Unspecified	diameter black ash a	neter cedar mixed with pocket ind a few yellow birch. A unique rom a harvest, most likely frou 1900's, still exist.	ue stand in	

Compartment: 298 Year of Entry: 2018



Stand	Cover Type	Acres	Managed Site	General Comments:
2	6220 - Alder/willow	2.6	No	Lost Creek and its associated drainage way.
11	500 - Water	5.2	No	Deer creek.
20	500 - Water	4.8	No	Part of Deer Creek Ponds.
21	6220 - Alder/willow	6.6	No	Creek bottom and associated very wet lowland brush.
23	330 - Low-Density Trees	9.0	No	A lowland stand that contains a mix of stagnant tamarack and black spruce.
31	720 - Exposed Rock	4.7	No	A rock knob that contains some patches of trees in between rock crevices and depressions. Stand is mostly rock.
33	720 - Exposed Rock	3.7	No	Stand contains some patches of trees in between rock crevices and depressions. Stand is mostly rock.
38	500 - Water	15.5	No	A very large beaver pond. A lot of stumps throughout.
39	500 - Water	9.3	No	A large beaver pond that is in a rock ravine essentially. Very unique.
45	500 - Water	2.0	No	The yellow dog river.
46	500 - Water	0.6	No	The yellow dog river.
47	500 - Water	47.7	No	This type contains the Nash Creek and associated land types. Included are old and new beaver meadows, marsh, lowland brush, rock outcrops, and small amounts of open water.