



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41102

Entry Year 2020

Acreage: 1,479

County Alger

Management Area: Deer Park

Revision Date: 2018-07-13

Stand Examiner: Mario Molin

Legal Description:

T49N, R13W, Sections 4, 9-15

Identified Planning Goals:

To manage the compartment in accordance with the principles of sustainable forest eco-system management.

Soil and topography:

Rolling hills and steep bluffs. Mainly Kalkaska Sand in the east part, and Garlic Sand in the west.

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

: Most of the surrounding ownership is owned by Heartwood Forestland Fund IV, with private parcels also on the north, east and west.

Unique Natural Features:

Unknown

Archeological, Historical, and Cultural Features:

Old pine camp.

Special Management Designations or Considerations:

Unknown

Watershed and Fisheries Considerations:

Fisheries Values: Excellent

This compartment includes various streams that drain to the Sucker River. All are designated trout streams. The Sucker River supports a good anadromous salmon and steelhead run. Baker and Grand Marais creeks both support Brook Trout populations. A site condition has been placed along the Sucker River corridor which will help to identify the buffer zone along this designated trout stream. All proposed treatments appear to have the appropriate setbacks in place according to the dominant site condition. Fisheries Division has no concerns at this time.

Wildlife Habitat Considerations:

Compartment 102 is part of the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection, and is located east of Grand Marais near Lake Superior. The Sucker River serves as the southeast boundary and subsequently wraps around to the north of the compartment. Baker Creek and Grand Marais Creek also flow through this compartment. Northern hardwoods, aspen association, and pine plantation comprise the majority of the landscape. Beech bark disease affects many of the beech, and recent management in this area has focused on removing beech. Heartwood Forestland Fund IV owns substantial acreage within this compartment. Intensive timber management on these lands has impacted treatment decisions on State forests in this compartment. The compartment is close to, but outside of, the Grand Marais wintering yard for white-tailed deer.

Wildlife objectives and considerations include maintaining and providing age class, structural, and tree species diversity for species associated with northern hardwood forest; maintaining early successional young deciduous forest for associated wildlife species; and maintaining riverine systems by placing no-cut buffers along Sucker River, Baker Creek, and Grand Marais Creek for species associated with riverine and floodplain habitats. Hemlock, oak, and cedar will be retained where present to provide cover, species diversity, and a source of mast.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand & gravel. There is insufficient data to determine the glacial drift thickness. The Cambrian Munising Formation and Precambrian Jacobsville Sandstone subcrop below the glacial drift. The

Trempealeau could be used for stone and the Jacobsville was used as a building stone in the past. Gravel pits are located three miles to the west, but there could be some potential. There is no commercial oil and gas production in the

Vehicle Access:

H-58 and The Old Seney Road are in the northwest, and there are dirt two-tracks accessing the eastern portion of the compartment

Survey Needs:

None known at this time.

Recreational Facilities and Opportunities:

Recreational facilities include the North Country Trail, and the snowmobile trail which is on the Old Seney Road. The area is also used for hunting, fishing and berry picking.

Fire Protection:

All stands located in Sections 11 through 15 with the exception of stand # 23 in Section 15 are within the Blind Sucker Zone Dispatch Area. Some of the stands within the zone dispatch area are more prone to large fire occurrences due to the grass and pine timber types as well as a response time of one hour or more from the nearest office. The west half of the compartment is primarily composed of hardwood and lowland timber types, therefore fire occurrences are rare. Steep terrain and low ground can hinder access to some areas.

Additional Compartment Information:

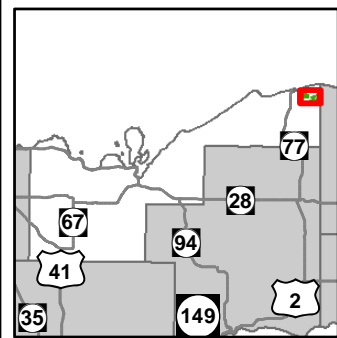
The following reports from the Inventory are attached:

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

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

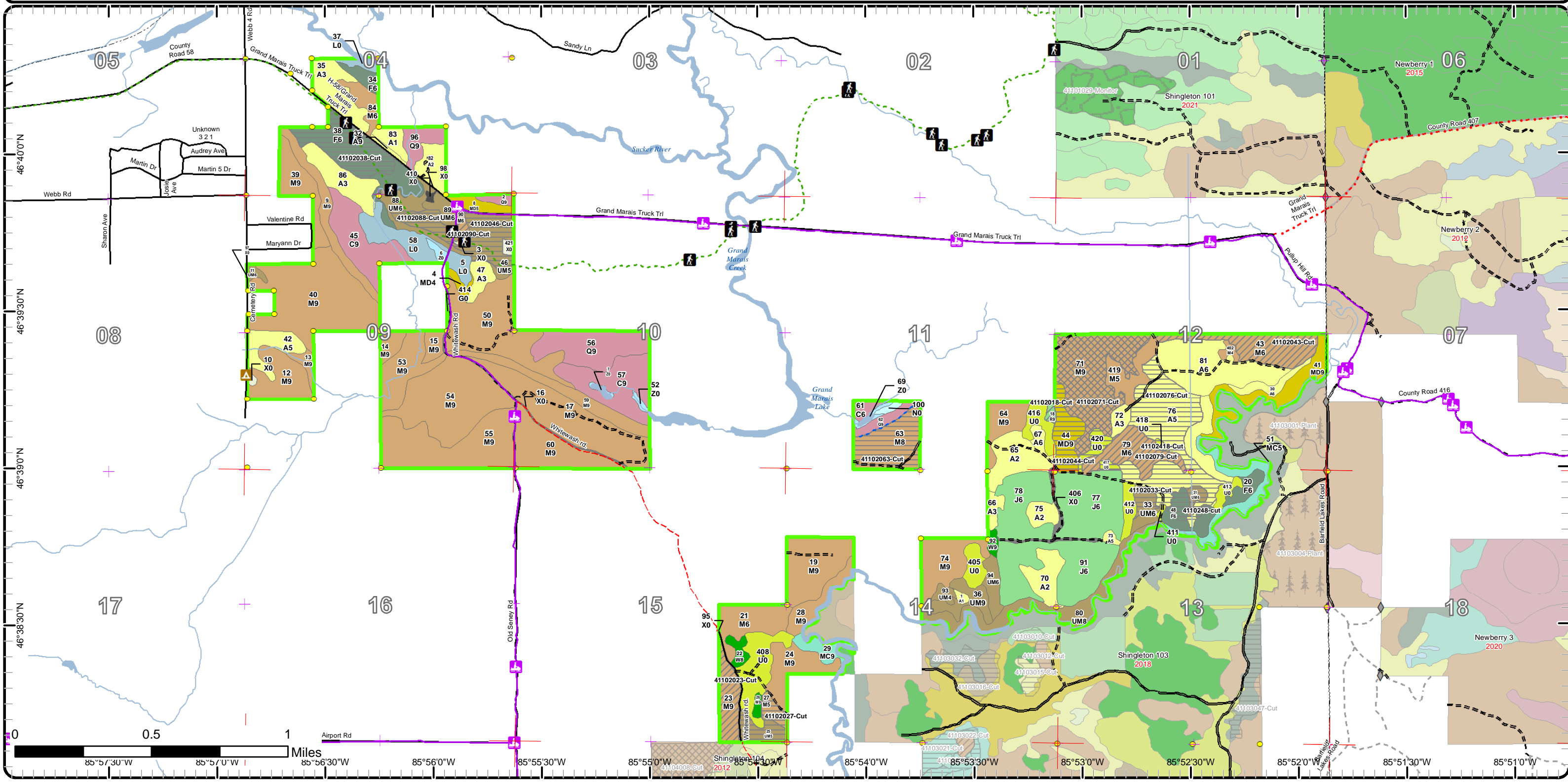
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



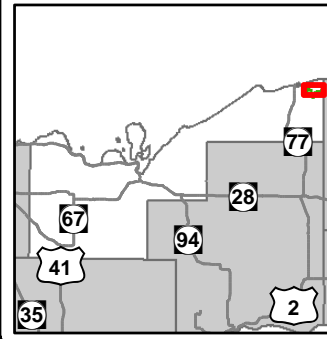
Compartment: 102
 T49N, R13W, Sec: 04, 09-12, 13-15
 County: Alger
 Unit: Shingleton
 Mgmt Area: Deer Park
 YOE: 2020
 Acres: 1,479 GIS Calculated
 Examiner: Mario Molin
 Map Revised: 12/17/2018
 Map Phase: Post Review

- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
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- 🌿 Compartment Boundary
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- ▨ Clearcut (w/Reserves)
- ▨ Thinning (Crown, Low, Systematic)
- ▨ 411 - Northern Hardwood
- ▨ 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
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- 122 - Roads/Parking Lot
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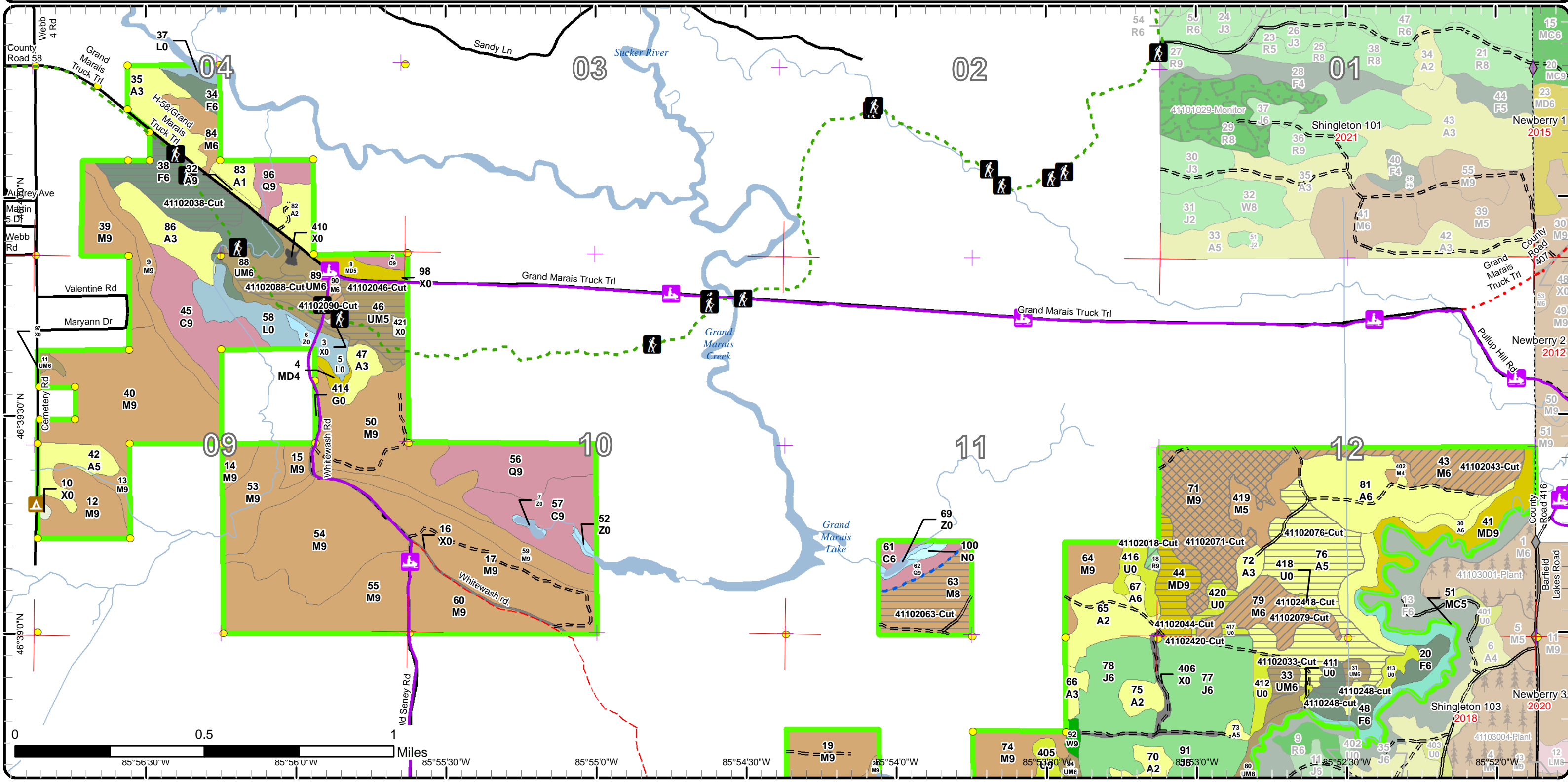


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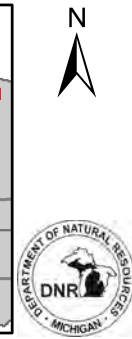
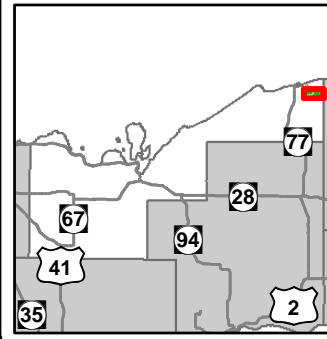


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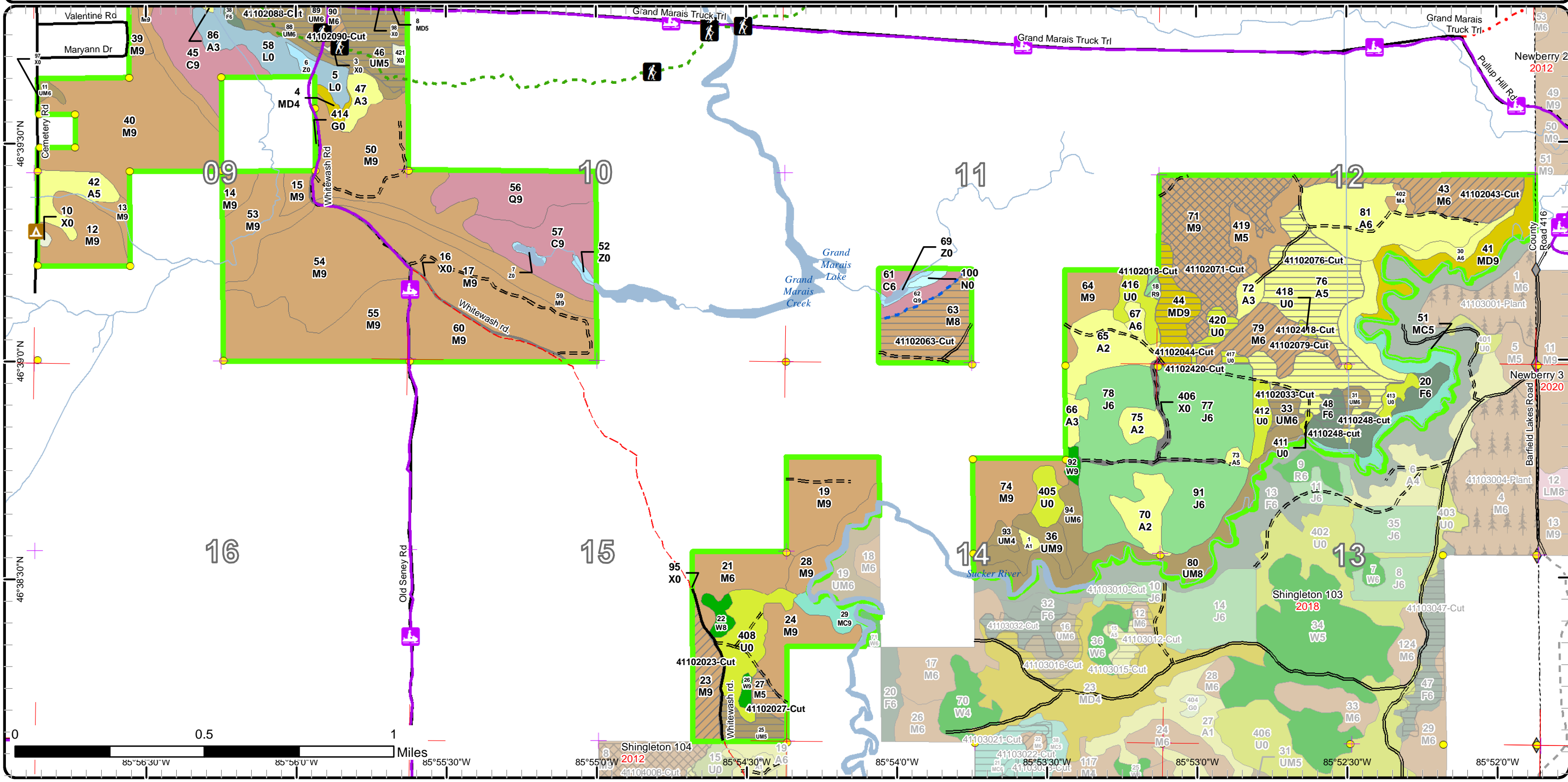


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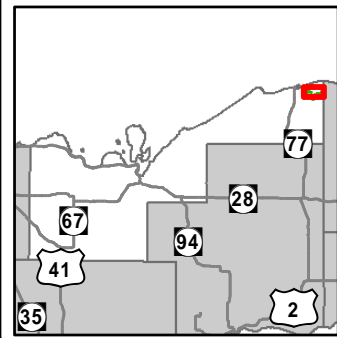


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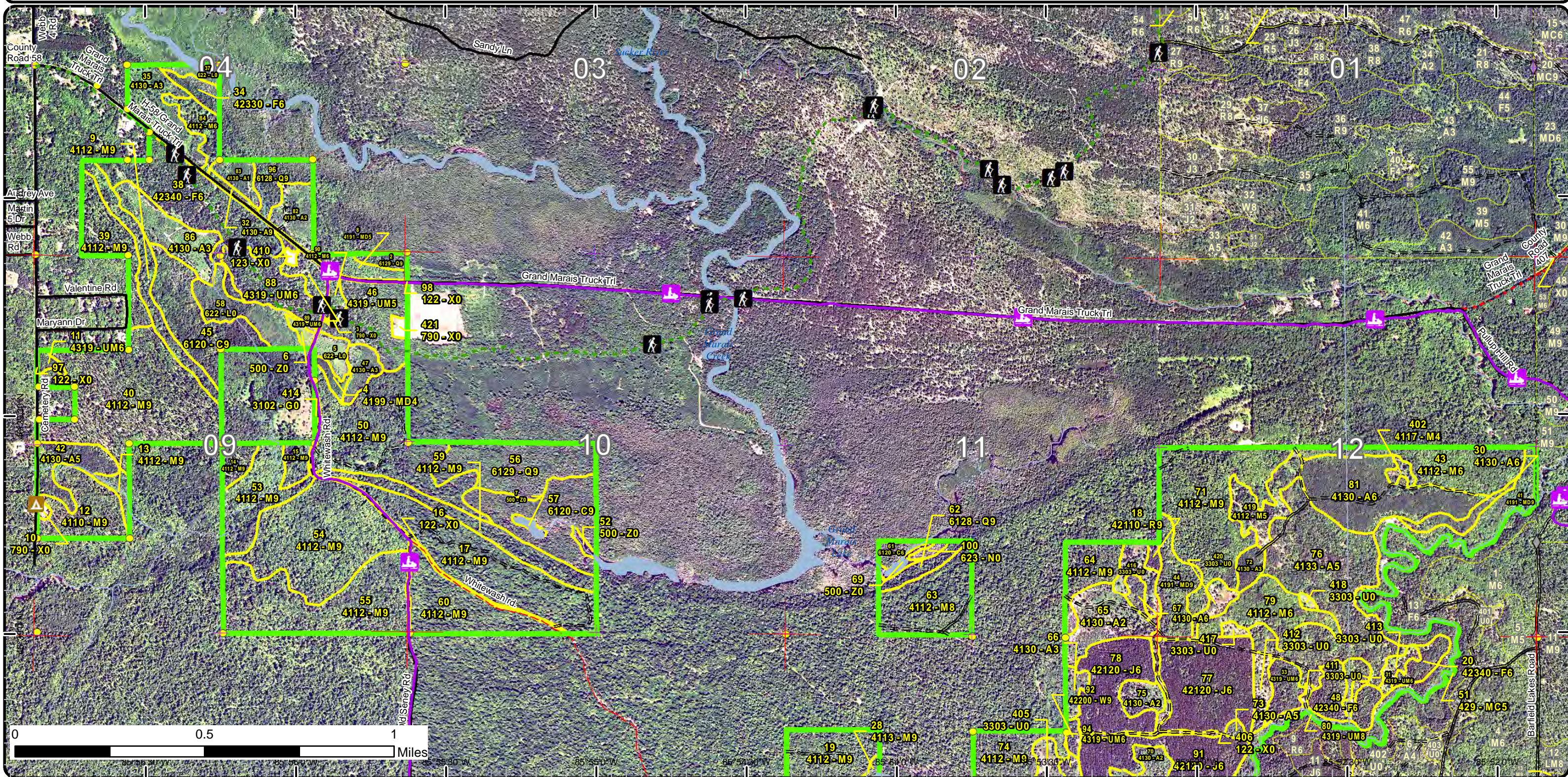


Stand Boundary Map

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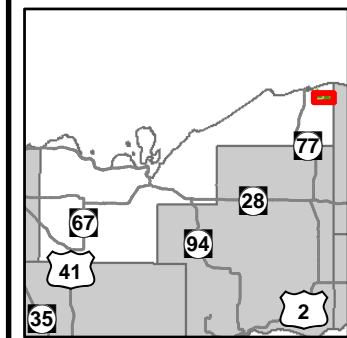


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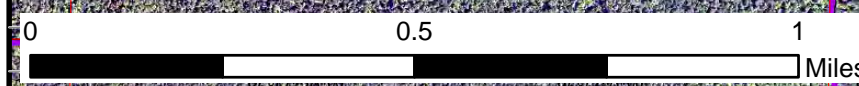
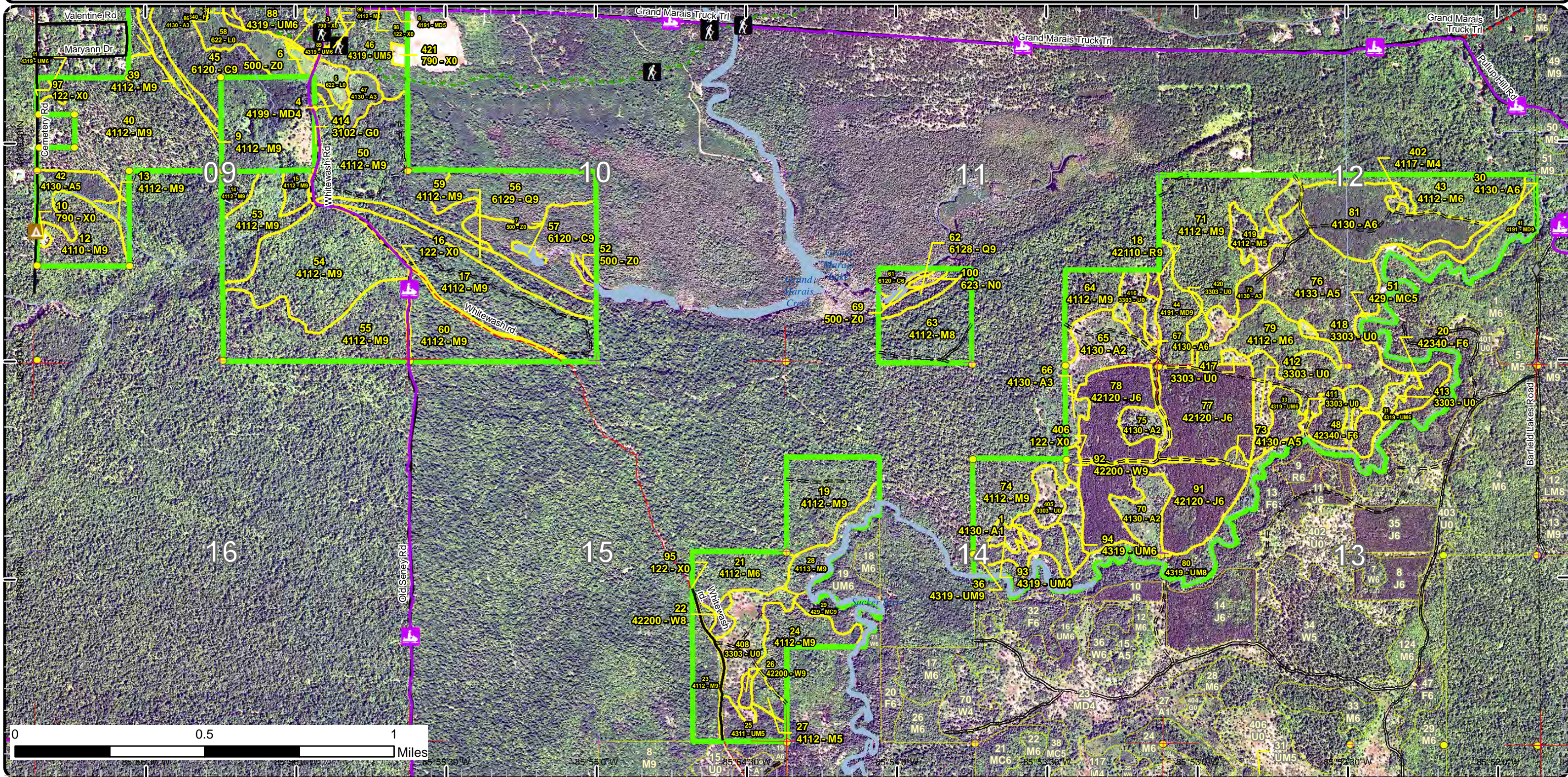


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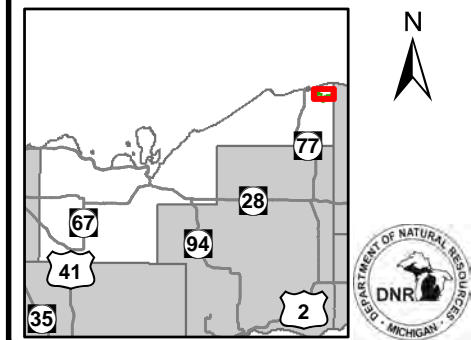


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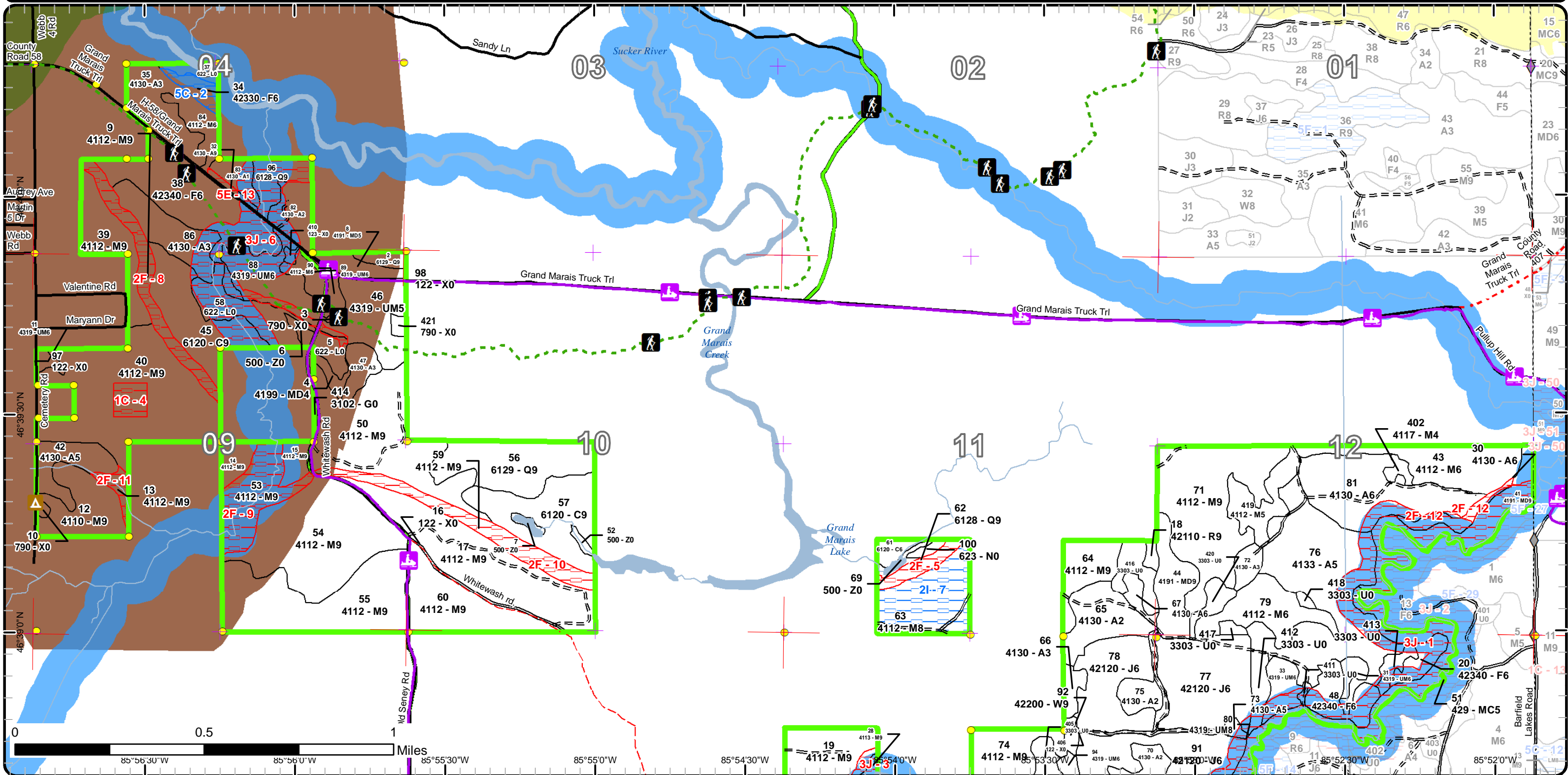


Special Conservation Areas & Site Conditions Map

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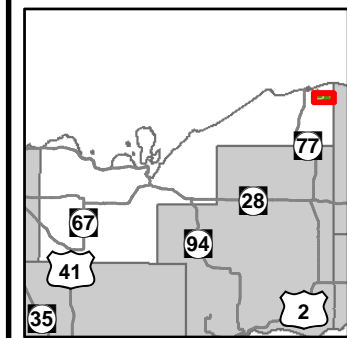


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2l: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Critical Dunes
- Critical Coastal Habitat (Piping Plover)
- Natural Beauty Roads
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range

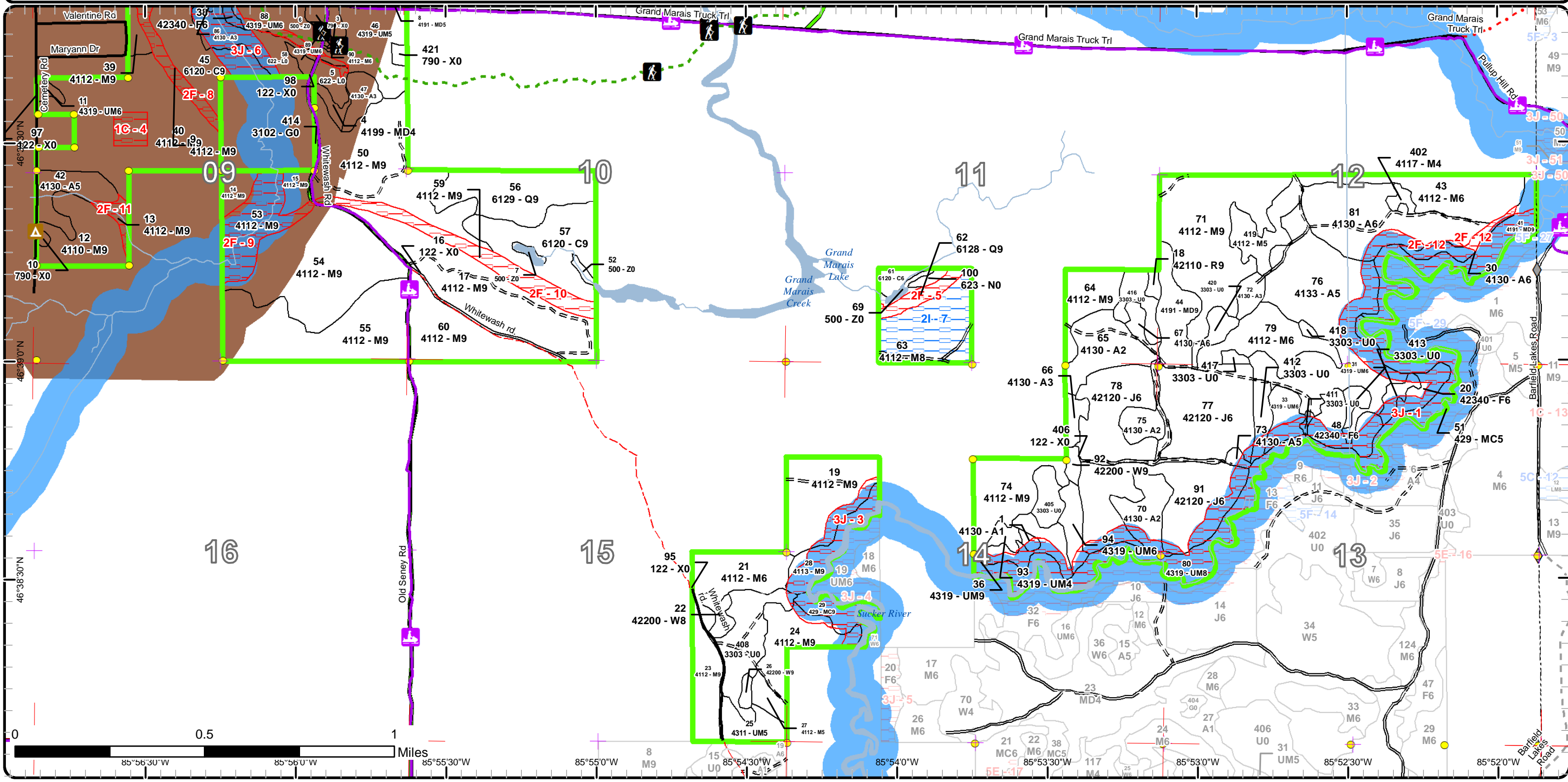


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Report 1 – Total Acres by Cover Type and Age Class



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
Aspen	0	98	0	0	42	17	0	0	6	0	0	0	0	0	0	0	0	69	232
Bare/Sparsely Vegetated	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Cedar	0	0	0	0	0	0	0	0	0	57	4	0	0	0	0	0	0	0	61
Herbaceous Openland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jack Pine	0	0	0	0	0	106	0	0	0	0	0	0	0	0	0	0	0	0	106
Low-Density Trees	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	15	3	0	0	0	0	0	29	47
Lowland Shrub	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	3	0	6	0	0	0	0	0	0	0	0	0	0	36	45
Northern Hardwood	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	657	680
Red Pine	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	0	16	8	0	0	0	0	0	0	0	0	0	0	24
Upland Mixed Forest	0	0	0	0	0	7	90	7	0	0	0	0	0	0	0	0	0	13	117
Upland Spruce/Fir	0	0	0	0	0	0	43	17	0	0	0	0	0	0	0	0	0	0	60
Urban	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4	8
Total	101	98	0	0	45	130	180	36	6	57	19	3	0	0	0	0	0	808	1483



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2020

Acres of Harvest

Compartment 102
Total Compartment Acres: 1,479

Commercial Harvest - 274
Harvests with Site Condition - 26
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	56	0	0	0	0	0	0	0	0	56
Low-Density Trees	7	0	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	15	0	0	0	0	0	0	0	0	15
Northern Hardwood	31	52	0	0	0	61	0	0	0	144
Red Pine	0	0	0	0	0	2	0	0	0	2
Upland Mixed Forest	44	0	0	0	0	0	0	0	0	44
Upland Spruce/Fir	33	0	0	0	0	0	0	0	0	33
Total	186	52	0	0	0	63	0	0	0	301

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	301	0	0	0	0	0	0	0	0	301
Next Step	0	27	27	0	0	53	238	0	0	344
Total	301	27	27	0	0	53	238	0	0	644



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
18	41102018-Cut	1.6	42110 - Planted Red Pine	Sawtimber Well	58	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription 1st entry, 3rd row thinning.Specs:Next StepTreatments:AcceptableRegen:Other See HAL.Comment:Proposed Start Date: 10/1 /2019

23	41102023-Cut	13.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	93	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Mark down to 80BA. Spec all merchantable spruce and fir.Specs:Next StepTreatments:AcceptableRegen:Other Private boundary line is in and cut.Comment:Proposed Start Date: 10/1 /2019

25	41102025-Cut	8.5	4311 - Pine, Aspen Mix	Poletimber Medium	50	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Clear cut site, no retention trying to promote aspen.Specs:Next Step Monitoring, Natural Regen (Intermediate)Treatments:Acceptable Aspen mix.Regen:OtherComment:Proposed Start Date: 10/1 /2019

27	41102027-Cut	4.3	4112 - Maple, Beech, Cherry Association	Poletimber Medium	63	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Clear cut site, no retention trying to promote aspen.Specs:Next Step Monitoring, Natural Regen (Intermediate)Treatments:Acceptable Aspen mixRegen:OtherComment:Proposed Start Date: 10/1 /2019



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
31	41102031-Cut	2.9	4319 - Mixed Upland Forest	Poletimber Well	50	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Clearcut, no retention due to small size.Specs:Next Step Monitoring, Natural Regen (Intermediate)Treatments:Acceptable Any mix of species.Regen:OtherComment:Proposed Start Date: 10/1 /2019

33	41102033-Cut	4.5	4319 - Mixed Upland Forest	Poletimber Well	61	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Clear cut with retention, which will be the river buffer.Specs:Next Step Monitoring, Natural Regen (Intermediate)Treatments:Acceptable Any mix of trees.Regen:OtherComment:Proposed Start Date: 10/1 /2019

38	41102038-Cut	27.5	42340 - Upland Spruce/Fir	Poletimber Well	56	51-80	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Clearcut with retention, retention is the buffer.Specs: No cut hemlock

Winter harvest only 12/1.

NCT trail- do not use trail for harvesting operations, crossing may be permitted.

Next Step Monitoring, Natural Regen (Intermediate)Treatments:Acceptable Any mix of species.Regen:OtherComment:Proposed Start Date: 10/1 /2019

43	41102043-Cut	25.1	4112 - Maple, Beech, Cherry Association	Poletimber Well	93	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Mark down to 80BA. Follow complete marker guidance. Spruce/Fir are in stand, can either be designated or marked, wildlife requests that someSpecs: mature (co-dominate) trees be left.Next StepTreatments:AcceptableRegen:Other

Private line is in.

Comment:Proposed Start Date: 10/1 /2019



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
44	41102044-Cut	15.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clearcut with retention. Retention may be near stand 18 (see stand 18 comments). Otherwise retention can be anywhere in the form of an island.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Any mix of species.											
<u>Regen:</u>											
<u>Other</u> See HAL info.											
<u>Comment:</u>											
Proposed Start Date: 10/1 /2019											
46	41102046-Cut	19.7	4319 - Mixed Upland Forest	Poletimber Medium	55	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clearcut with retention, retention is the buffer.											
<u>Specs:</u> No cut hemlock Winter harvest only 12/1. NCT trail will be re-routed to south in a retention patch.											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Any mix of trees.											
<u>Regen:</u>											
<u>Other</u> Consider re routing the North Country Trail to the buffer/retention area.											
<u>Comment:</u>											
Proposed Start Date: 10/1 /2019											
63	41102063-Cut	26.5	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	90	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Survey Needed								
<u>Prescription</u> Clearcut, no retention, convert to red pine.											
<u>Specs:</u> Treatment boundary on the north side will be the slope.											
<u>Next Step</u> SitePrep, Trenching; Pesticide, (Inactive)Skidder/Mechanical; Planting, Initial Plant; Pesticide, (Inactive)Skidder/Mechanical; Monitoring, Artificial											
<u>Treatments:</u> Regen(3yr)											
<u>Acceptable</u> Red Pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
Proposed Start Date: 10/1 /2019											
71	41102071-Cut	51.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Mark down to 80BA. Follow complete marker guidance. Spruce/Fir are in stand, can either be designated or marked, wildlife requests that some											
<u>Specs:</u> mature (co-dominate) trees be left.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any tree species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
Proposed Start Date: 10/1 /2019											



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
76	41102076-Cut	56.4	4133 - Aspen, Mixed Pine	Poletimber Medium	54	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Clear cut with retention, which will be the river buffer.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen with other trees.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
79	41102079-Cut	19.8	4112 - Maple, Beech, Cherry Association	Poletimber Well	90	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Lite thinning, remove clumps and deformities, keep gaps open.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
88	41102088-Cut	8.7	4319 - Mixed Upland Forest	Poletimber Well	53	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Clearcut with retention, retention is the buffer.											
<u>Specs:</u> No cut hemlock Winter harvest only 12/1. NCT trail- do not use trail for harvesting operations, crossing may be permitted.											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Any mix of species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
90	41102090-Cut	2.4	4112 - Maple, Beech, Cherry Association	Poletimber Well	50	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Light thinning, concentrate on cutting out the clumps.											
<u>Specs:</u> No cut hemlock Winter harvest only 12/1. NCT trail will be re-routed to south in a retention patch in stand 46											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											



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
417	41102417-Cut	1.4	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	Harvest	Clearcut	3102 - Grass		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clearcut for opening maintenance.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Grass											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
418	41102418-Cut	0.9	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	Harvest	Clearcut	3102 - Grass		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clearcut for opening maintenance.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> grass											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
420	41102420-Cut	4.5	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	Harvest	Clearcut	3102 - Grass		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clearcut for opening maintenance.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Grass											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
48	4110248-cut	5.2	42340 - Upland Spruce/Fir	Poetimber Well	61	51-80	Harvest	Clearcut with Retention	42340 - Upland Spruce/Fir	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clear cut with retention, which will be the river buffer.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Any mix of trees.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
Total Treatment Acreage Proposed:		300.6									

Report 4 – Site Conditions

Shingleton Mgt. Unit

Mario Molin : Examiner

Compartment: 102

Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		2I	5C	1C	2F	3J	5E
231	185	0	46	Aspen				2	43	1
3	3	0	0	Bare/Sparsely Vegetated						
60	55	0	5	Cedar					5	
0	0	0	0	Herbaceous Openland						
106	96	0	10	Jack Pine					10	
50	46	0	4	Low-Density Trees					4	
47	32	0	15	Lowland Conifers				5	9	
24	13	0	10	Lowland Shrub					10	
2	2	0	0	Marsh						
45	24	0	21	Mixed Upland Deciduous					21	
681	485	26	169	Northern Hardwood	26		68	58	43	
2	2	0	0	Red Pine						
24	0	0	24	Upland Conifers					24	
116	64	0	52	Upland Mixed Forest					52	
60	33	5	23	Upland Spruce/Fir		5			23	
16	14	0	2	Urban					2	
6	6	0	0	Water						
7	7	0	0	White Pine						
1,480	1,067	31	382	Total Forested Acres	26	5	68	65	247	1
	72%	2%	26%	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	3J: Water quality / BMPs (stream, river, or lake)	120	Unspecified	Unspecified	Unspecified	Unspecified
Comments: River buffer							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Compartment: 102

Mario Molin : Examiner

Year of Entry: 2020

2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: River buffer							
4	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
5	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep hillside							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	59	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	2I: Survey needed	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2F: Too steep	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep hillside							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Mario Molin : Examiner

Compartment: 102
Year of Entry: 2020

9	Unavailable	2F: Too steep	21	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
Comments: Steep hillside and bridge needed.							
10	Unavailable	2F: Too steep	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep hillside							
11	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep hillside							
12	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	1	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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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.
SCA	Visual Management Area	An area of general social appreciation that is managed to recognize and preserve a particular visual value. Examples of these areas include scenic vistas, scenic or natural beauty roads, and lakeshore areas.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	Sapling Poor	1.2	5	Immature	OPIC - FMD: Area of aspen mixed with other species. Cut all trees except trees marked as leave trees for retention. Retain supercanopy white pine. Stay 100 ft from the top of the Sucker River bank. Acceptable regeneration species are aspen with a mix of species that are currently on site. Evaluate for TSI after cutting. Soil=Kalkaska Sand, 1-6% slopes. [7/18/11 bb] Stand is on proposal 41-030-10, East Comp 102. Stand is Unit 4, actual acres = 2. [11-22-11] Stand is now under contract 41-030-10-01. [12-18-13] Sale is now closed TCR dtd 10-21-13. Schedule regen survey in accordance with the work instructions.
2	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	3.0	105	81-110	2008- Large diameter Hemlock, with a mix of smaller trees. Low ground, seasonally wet. East property line is painted in blue.
4	4199 - Other Mixed Upland Deciduous	Poletimber Poor	2.6	38	51-80	
8	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	5.9	54	51-80	
9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.4	93	81-110	2018- steep slope, seeps and a spring is in the stand.
11	4319 - Mixed Upland Forest	Poletimber Well	1.8	45	51-80	Mixed stand, not really sure of what to feature due to the variation of species, age and ground type. By next entry most of the fir will be larger/marketable and could cut with stand 40 if thinning.
12	4110 - Sugar Maple Association	Sawtimber Well	20.3	93	81-110	2018- Cut in 2013
13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.6	93	81-110	2008: Steep valley with tributary to Baker Creek at the bottom.
14	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.2	93	1-50	
15	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.6	90	81-110	2018- cut in 2012, thin next entry.
17	4112 - Maple, Beech, Cherry Association	Sawtimber Well	48.6	90	51-80	
18	42110 - Planted Red Pine	Sawtimber Well	1.6	58	81-110	
19	4112 - Maple, Beech, Cherry Association	Sawtimber Well	29.5	93	81-110	OPIC - FMD: Thinned last entry.
20	42340 - Upland Spruce/Fir	Poletimber Well	5.8	61	51-80	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4112 - Maple, Beech, Cherry Association	Poletimber Well	19.2	93	51-80	2018- very good hemlock regen, consider thinning next entry. 2008: Thinned heavily last entry, due to removal of the BBD beech. FTP W41-1312 (underplanting oak, white pine & hemlock) is still open. [6/18/08 jb] only planted hemlock.
22	42200 - Natural White Pine	Sawtimber Medium	3.6	93	51-80	OPIC - FMD: Thinned last entry. Soil=Garlic Sand, 0-6% slopes.
23	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.9	93	81-110	OPIC - FMD: Thinned last entry.
24	4112 - Maple, Beech, Cherry Association	Sawtimber Well	18.0	93	81-110	OPIC - FMD: Thinned last entry.
25	4311 - Pine, Aspen Mix	Poletimber Medium	8.5	50	51-80	2018- poor stand overall, center portion has some better quality. Good site to convert to red pine.
26	42200 - Natural White Pine	Sawtimber Well	1.6	60	51-80	
27	4112 - Maple, Beech, Cherry Association	Poletimber Medium	4.3	63	51-80	2018- good site to convert to red pine.
28	4113 - R.Maple, Conifer	Sawtimber Well	11.9	93	81-110	OPIC - FMD: Steep hillside and floodplain along the Sucker River.
29	429 - Mixed Upland Conifers	Sawtimber Well	8.0	61	1-50	OPIC - FMD: Steep hillside and floodplain along the Sucker River.
30	4130 - Aspen	Poletimber Well	5.5	78	51-80	OPIC - FMD: Very steep slope with the Sucker River at the bottom.
31	4319 - Mixed Upland Forest	Poletimber Well	2.9	50	51-80	
32	4130 - Aspen	Sawtimber Well	1.4	55	81-110	2018- site was a dump in the past, loop road is bermed and buffer along hiway was left more for restricting access into stand to stop continued dumping.
33	4319 - Mixed Upland Forest	Poletimber Well	7.4	61	81-110	
34	42330 - Upland Fir	Poletimber Well	4.6	53	51-80	2018- portion of stand has flooded and died, can be seen in photo.
35	4130 - Aspen	Sapling Well	17.7	7	Immature	2018-cut in 2011
36	4319 - Mixed Upland Forest	Sawtimber Well	10.7	56	81-110	
38	42340 - Upland Spruce/Fir	Poletimber Well	38.5	56	51-80	2008: Along H-58, with the NCT trailhead and trail within the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	4112 - Maple, Beech, Cherry Association	Sawtimber Well	16.8	93	81-110	2018- Cut in 2013
40	4112 - Maple, Beech, Cherry Association	Sawtimber Well	68.3	93	81-110	2018- cut in 2013
41	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	21.0	85	51-80	2018- Steep slope and floodplain along the Sucker River, impossible to operate on, no signs of old trails down to the flats and also in the buffer zone.
42	4130 - Aspen	Poletimber Medium	12.3	41	1-50	Seasonal drainage within the stand.
43	4112 - Maple, Beech, Cherry Association	Poletimber Well	25.1	93	111-140	
44	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	15.0	90	81-110	
45	6120 - Lowland Cedar	Sawtimber Well	26.5	87	111-140	2018- saturated ground, lots of drainages throughout.
46	4319 - Mixed Upland Forest	Poletimber Medium	21.8	55	51-80	2018- NCT runs through the middle of stand, reroute to south where there will be a buffer along the low lands.
47	4130 - Aspen	Sapling Well	6.1	7	Immature	10-12-11] Stand was cut under TS 41-043-10-01, TCR dtd 10-12- 11. Residual BA = 0. Schedule regen check for 2015.
48	42340 - Upland Spruce/Fir	Poletimber Well	11.4	61	51-80	
50	4112 - Maple, Beech, Cherry Association	Sawtimber Well	49.8	90	51-80	2018- Cut next entry, try larger regen gaps to out compete striped maple.
51	429 - Mixed Upland Conifers	Poletimber Medium	16.2	58	81-110	OPIC - FMD: Steep hill with the Sucker River at the bottom. Areas of exposed soil on the slope. Some low, brushy areas adjacent to the river. All in river buffer.
53	4112 - Maple, Beech, Cherry Association	Sawtimber Well	20.8	90	81-110	2018- Baker creek runs through, old railroad grade in stand, steep slopes on west side.
54	4112 - Maple, Beech, Cherry Association	Sawtimber Well	54.4	90	81-110	
55	4112 - Maple, Beech, Cherry Association	Sawtimber Well	48.5	90	81-110	2018- lots of beech regen, a few areas with good maple regen.
56	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	29.2	90	111-140	
57	6120 - Lowland Cedar	Sawtimber Well	30.2	87	81-110	2018: Grand Marais Creek and pond are within the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
59	4112 - Maple, Beech, Cherry Association	Sawtimber Well	17.9	90	51-80	2018- very steep slope.
60	4112 - Maple, Beech, Cherry Association	Sawtimber Well	26.6	90	51-80	
61	6120 - Lowland Cedar	Poletimber Well	3.5	90	111-140	
62	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	5.5	90	81-110	
63	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	26.5	90	81-110	2018: Thinned heavily 2008 to remove BBD beech.
64	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.7	90	81-110	
65	4130 - Aspen	Sapling Medium	17.8	5	Immature	2018- cut in 2012
66	4130 - Aspen	Sapling Well	3.9	5	Immature	
67	4130 - Aspen	Poletimber Well	3.2	42	1-50	
70	4130 - Aspen	Sapling Medium	12.4	5	Immature	2018- cut in 2012 [
71	4112 - Maple, Beech, Cherry Association	Sawtimber Well	51.8	90	81-110	
72	4130 - Aspen	Sapling Well	4.2	32	1-50	
73	4130 - Aspen	Poletimber Medium	1.4	48	51-80	
74	4112 - Maple, Beech, Cherry Association	Sawtimber Well	21.3	85	81-110	[11-22-11] Stand is now under contract 41-030-10-01. [12-18-13] Sale is now closed TCR dtd 10-21-13. Schedule regen survey in accordance with the work instructions.
75	4130 - Aspen	Sapling Medium	5.8	5	Immature	
76	4133 - Aspen, Mixed Pine	Poletimber Medium	67.8	54	1-50	2018: Mix of all ages/sizes of trembling and big tooth aspen with a large variety of other trees. BA varies 20-80, averaging. Best stocking is in the river buffer zone. Small pocket of mature jack pine in middle of stand.
77	42120 - Planted Jack Pine	Poletimber Well	36.7	44	81-110	



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42120 - Planted Jack Pine	Poletimber Well	25.3	44	51-80	OPIC - FMD: Jack Pine plantation. Scattered cherry, r.maple, w.pine, r.pine and aspen. Soil is Kalkaska Sand, 1-6% slopes, burned.
4112 - Maple, Beech, Cherry Association	Poletimber Well	19.8	90	81-110	
4319 - Mixed Upland Forest	Sawtimber Medium	29.6	58	51-80	OPIC - FMD: Steep hill with the Sucker River at the bottom. Areas of exposed soil on the slopes. Some low, brushy areas adjacent to the rivre. Soil=Kalkaska Sand, 35-70% slopes, burned. 98/2=b.fir, w.spruce, w.pine. 99/2=cherry, aspen
4130 - Aspen	Poletimber Well	37.4	32	1-50	
4130 - Aspen	Sapling Medium	9.8	7	Immature	2018- Hawk nest was found during harvest, that is the island of trees left in the middle of stand.
4130 - Aspen	Sapling Poor	5.6	7	Immature	2018- site was a dump in the past, loop road is bermed and buffer along hiway was left more for restricting access into stand to stop continued dumping.
4112 - Maple, Beech, Cherry Association	Poletimber Well	7.8	50	1-50	2008: Adjacent to H-58. Old opening filling in with clumps of trees.
4130 - Aspen	Sapling Well	17.1	7	Immature	
4319 - Mixed Upland Forest	Poletimber Well	18.8	53	51-80	2018- reroute NCT to river buffer. River is roughly the boundary between stand 38 and 88
4319 - Mixed Upland Forest	Poletimber Well	5.1	48	1-50	
4112 - Maple, Beech, Cherry Association	Poletimber Well	2.4	50	111-140	
42120 - Planted Jack Pine	Poletimber Well	44.4	44	81-110	
42200 - Natural White Pine	Sawtimber Well	2.1	68	81-110	2018- cut in 2012
4319 - Mixed Upland Forest	Poletimber Poor	2.8	45	1-50	
4319 - Mixed Upland Forest	Poletimber Well	7.0	45	1-50	
6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	9.2	96	81-110	2018-Stand is along baker creek, area was used as dump site and edge of stand is filled with "trash" old bottles and cans and such. Stand steps down from the adjacent aspen stand and ground is very saturated.

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Shingleton Mgt. Unit

Report 7 – Forested Stands

Compartment: 102
Year of Entry: 2020



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
402	4117 - Mixed N. Hardwood - Pine	Poletimber Poor	2.1	45	1-50	OPIC - FMD: Small grassy area, slowly filling in with trees.
419	4112 - Maple, Beech, Cherry Association	Poletimber Medium	12.9	50	1-50	2008- Open area, slowly filling in with a variety of trees.



Stand	Cover Type	Acres	Managed Site	General Comments:
3	790 - Other Bare/Sparse Vegetate	0.5	No	Area is used heavily by atv's
5	622 - Lowland Shrub	4.7	No	OPIC - FMD: Low, wet area with tall brush. Adjacent to the Old Seney Rd and snowmobile trail. Soil=Tawas-Deford mucks.
6	500 - Water	1.7	No	OPIC - FMD: Pond adjacent to the Old Seney Rd & snowmobile trail. Soil=Tawas-Deford Mucks.
7	500 - Water	1.4	No	OPIC - FMD: Pond along Grand Marais Creek.
10	790 - Other Bare/Sparse Vegetate	0.7	No	OPIC - FMD: Gravel pit.
16	122 - Road/Parking Lot	4.7	No	
37	622 - Lowland Shrub	3.3	No	OPIC - FMD: Low, wet area near the Sucker River. Carbondale, Lupton & Tawas soils
52	500 - Water	1.2	No	OPIC - FMD: Pond along Grand Marais Creek.
58	622 - Lowland Shrub	15.7	No	OPIC - FMD: Low wet ground, with Baker Creek flowing through. Tawas-Deford Mucks.
69	500 - Water	2.1	No	OPIC - FMD: Pond along Grand Marais Creek.
95	122 - Road/Parking Lot	1.5	No	OPIC - FMD: County Rd ROW.
97	122 - Road/Parking Lot	0.2	No	OPIC - FMD: County Road ROW.
98	122 - Road/Parking Lot	3.9	No	OPIC - FMD: H-58 ROW.
100	623 - Emergent Wetland	1.5	No	2018- Island of dead cedar.
405	3303 - Mixed Low Density Trees	6.4	No	OPIC - FMD: Scattered white pine and cherry. Aspen around edges.
406	122 - Road/Parking Lot	4.7	No	OPIC - FMD: Old firebreaks with abandoned roads. Filling in with trees: cherry, white pine, jack pine, etc. Soil=Kalkaska Sand, 1-6% slopes, burned. Habitat type=PVE.
408	3303 - Mixed Low Density Trees	19.2	No	OPIC - FMD: Open area with scattered trees (cherry, w.pine, spruce, aspen, juneberry). Habitat type=PVE. Soil=Kalkaska sand, 1-6% slopes, burned.



Stand	Cover Type	Acres	Managed Site	General Comments:
410	123 - Other High Intensity Urban	0.7	No	Looks like a gravel parking lot, old records show rye was planted and sea lamprey control use it as a staging area.
411	3303 - Mixed Low Density Trees	0.7	No	OPIC - FMD: Turn around and dispersed camping site at edge of steep slope to Sucker River. Soil is Kalkaska Sand, 1-6% slopes, burned.
412	3303 - Mixed Low Density Trees	5.4	No	OPIC - FMD: Open area with a few scattered trees: cherry, j.pine, w.pine. Soil is Kalkaska Sand, 1-6% slopes, burned.
413	3303 - Mixed Low Density Trees	3.5	No	OPIC - FMD: Scattered trees: cherry, jack pine, aspen, spruce. Soil=Kalkaska Sand, 1-6% slopes, burned.
414	3102 - Grass	0.4	No	OPIC - FMD: Open area between the Old Seney Rd (snowmobile trail) and private land.
416	3303 - Mixed Low Density Trees	7.6	No	OPIC - FMD: Grassy opening, filling in with trees: w.pine, j.pine, cherry, r.maple. Habitat type=PVE. Soil=Kalkaska Sand, 0-6% slopes.
417	3303 - Mixed Low Density Trees	1.4	No	OPIC - FMD: Scattered cherry and aspen. Soil=Kalkaska Sand, 1-6% slopes, burned.
418	3303 - Mixed Low Density Trees	0.9	No	OPIC - FMD: Small grass area, with a few trees - j.pine, cherry, aspen. Soil is Kalkaska Sand, 1-6% slopes, burned.
420	3303 - Mixed Low Density Trees	4.5	No	OPIC - FMD: Scattered cherry and aspen. Soil=Kalkaska Sand, 1-6% slopes, burned.
421	790 - Other Bare/Sparsely Vegetate	1.4	No	Open area adjacent to the old landfill, looks like sand was barrowed for the landfill.