Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32093
Entry Year 2018
Acreage: 2,461
County Alger
Management Area: Dead Horse Moraines

Revision Date: 2016-08-11

Stand Examiner: Robert Tylka

Legal Description:

T45N R22W Section 36, and T44N R22W Sections 10,14,23,26,27,34,35 and 36

Identified Planning Goals:

Maintain winter deer habitat, and protect fisheries values associated with Werner and McAfee Creeks.

Soil and topography:

Most of the terrain in this compartment is low, flat & wet, featuring a variety of bottomland soils ranging from silt loams to organic mucks, and poor drainage is common. Some areas feature gently rolling terrain, where the soils are generally fine sandy to silt loams with better drainage. These areas, including upland inclusions in the lowland stands, are significantly more productive for timber.

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

This compartment consists of several blocks of state land of varying sizes, with parcels of private land surrounding them. One landlocked forty of private land is included within the compartment boundaries.

Unique Natural Features:

Werner Creek and the West Branch of the Whitefish River flow through this compartment, along with numerous drainages that flow into them.

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

This compartment lies within a deer wintering complex, and the lowland timber types(especially cedar) found here are important for that use.

Watershed and Fisheries Considerations:

: This compartment contains Werners Creek and McAfee Creek which are both designated Type 1 trout streams less than 50’ wide. McAfee Creek is a tributary to Werner Creek, which then serves as tributary to the West Branch of the Whitefish River. Werner Creek contains Brook Stickleback, Rainbow Trout, Lake Sturgeon, Slimy Sculpin, and various Darter species. No fisheries data are available for McAfee Creek. A 300’ buffer is recommended for Werners Creek in riparian areas adjacent to stands which include Aspen. For all other riparian areas, including McAfee Creek, Best Management Practices should be followed to reduce erosion into water bodies.

Wildlife Habitat Considerations:

Compartment 93 is found within the Dead Horse Moraines Management Area; on Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include Northern Hardwood, Aspen, and Mixed Lowland Conifer. This management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area. The most significant wildlife management issues in the management area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); course woody debris, early successional forest, and deer wintering complexes.

The following have been identified as featured species for the Dead Horse Moraines Management Area: black bear, pileated woodpecker, ruffed grouse, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured till. Glacial drift thickness is typically less than 30 feet across the area. The Ordovician Trenton and Black River formations subcrop below the glacial drift. Both units have been quarried for stone in the UP. A gravel pit is located in Section 28 (T45N R22W) and there is some evidence of additional former pits in the area.

There may be some sand and gravel potential in the compartment on drumlins and other uplands, but shallow bedrock would limit production. There is no history of commercial mining or mineral leasing in this area. There has been no economic oil and gas production in the UP.

Vehicle Access:

Vehicle access to the interior of this compartment is very difficult, as the lowland soils simply cannot support anything other than winter roads. The many unmapped drainages also make road building extremely difficult.

Survey Needs:

If access is obtained to execute proposed treatments in stands 13 & 14, then survey corners/property lines must be established along the section line between sections 23 and 26; in addition the same will be needed in the NENE of section 26.

Recreational Facilities and Opportunities:

There are currently no developed recreational facilities in the compartment, but an old state forest campground was located on the west side of US-41 in section 10.

Fire Protection:

This compartment does not feature a lot of high-risk fuels, though the lowland conifers can certainly become problematic in drought years. The main concern for fire management would be the access issues.

Additional Compartment Information:

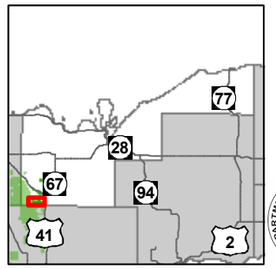
The following reports from the Inventory are attached:

- **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



N

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T26N, R22W, Sec. 36
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Mgmt Area: Dead Horse Moraines
YOE: 2018
Acres: 2461.4 GIS Calculated
Examiner: Robert Tylka
Map Revised: 2/8/2017
Map Phase: Post-Review

- Miris Corners
- Remonumented Section Corners
- Survey Grade GPS Corners
- Gate
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
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- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
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- 500 - Water
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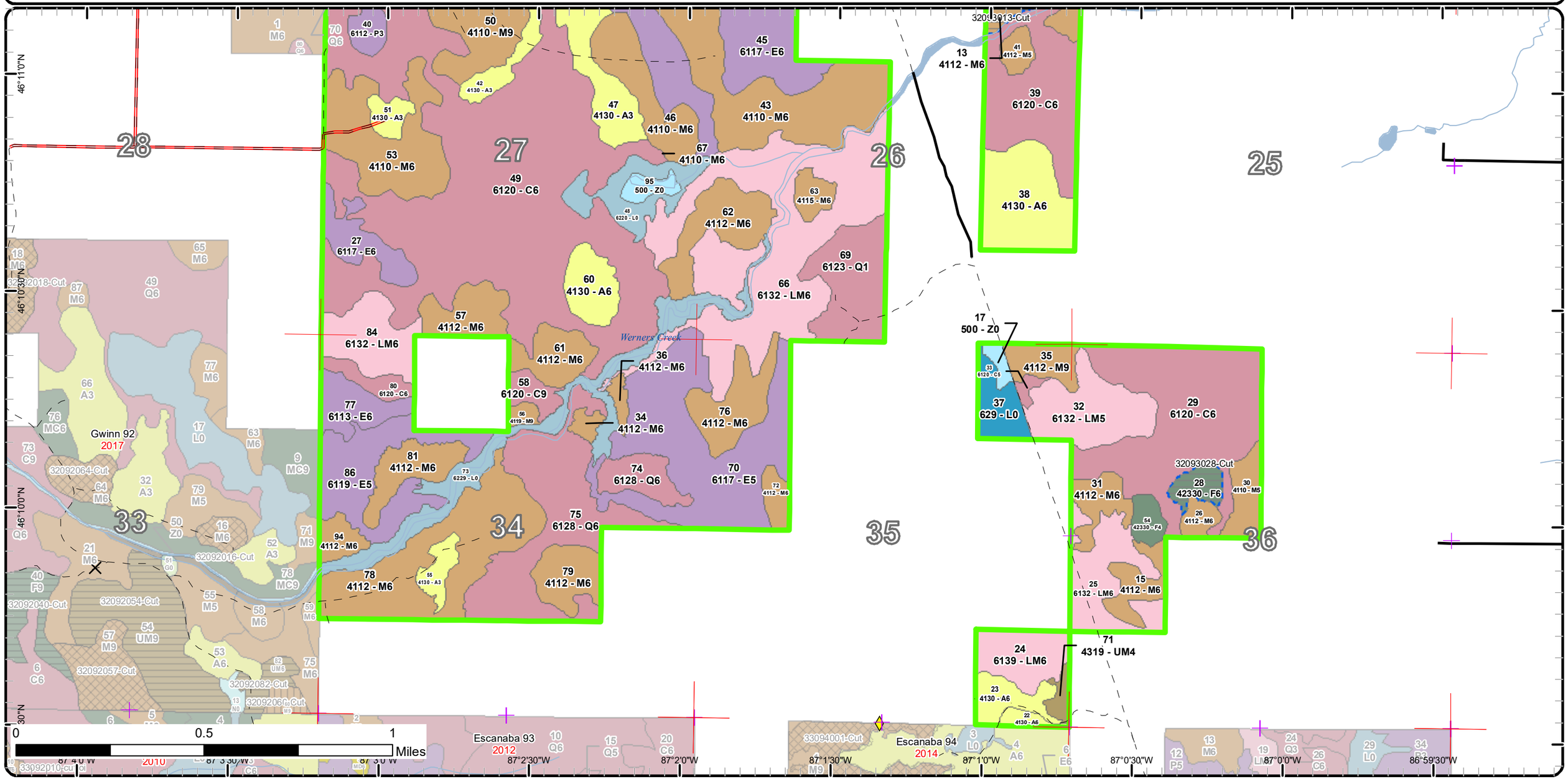
- 629 - Mixed non-forested wetland
- Lakes



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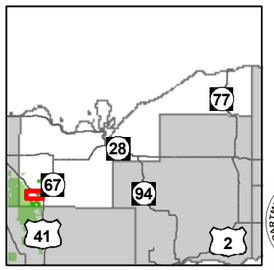

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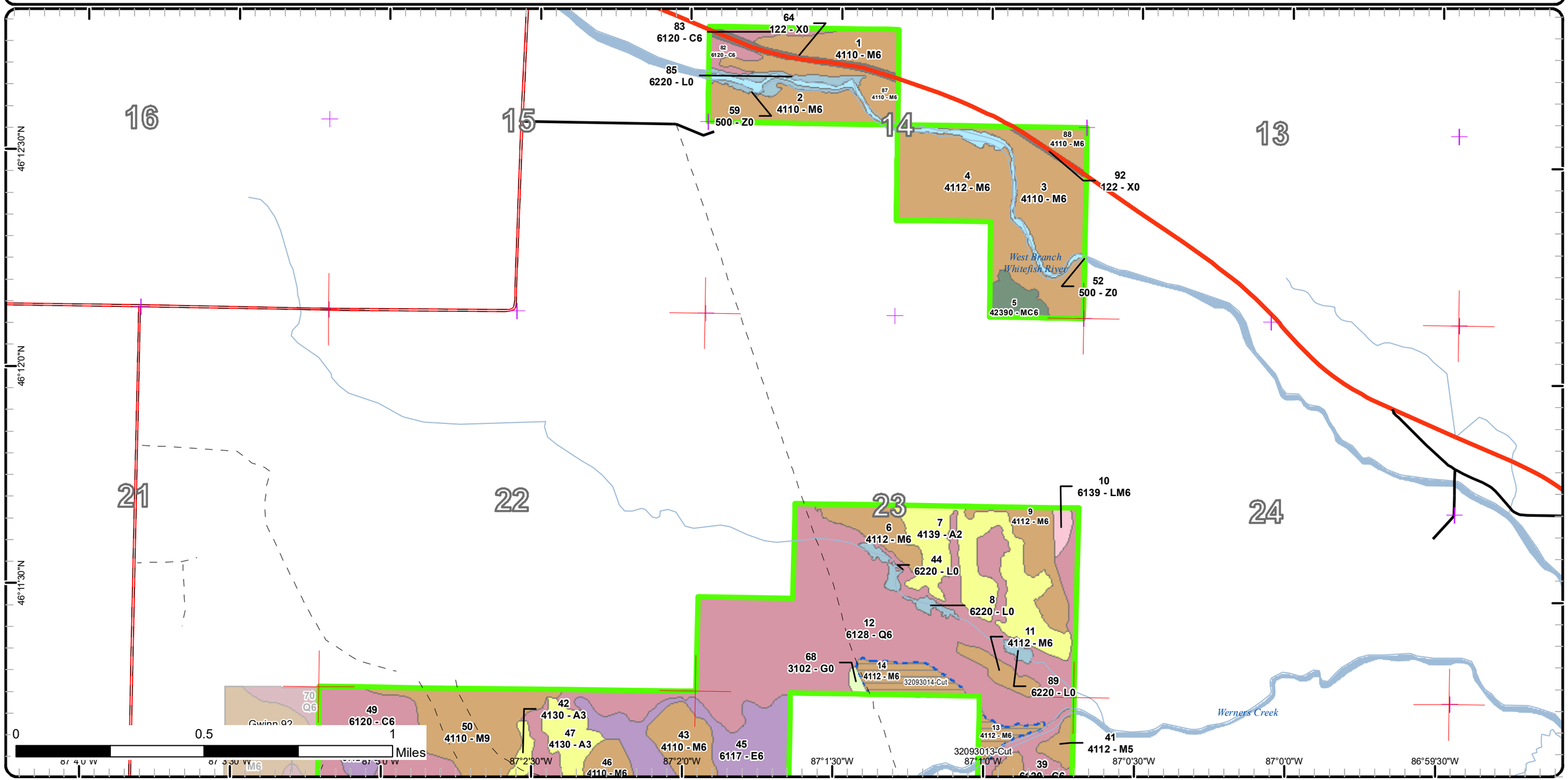

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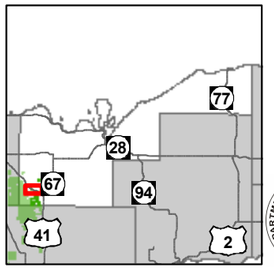

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09 10 11 12 16 15 14 13

Hayes Creek

West Branch Whitefish River

16
122 - X0

91
42330 - F6

93
500 - Z0

90
4110 - M6

65
42340 - F6

83
6120 - C6

64
122 - X0

82
6120 - C6

1
4110 - M6

85
6220 - L0

2
4110 - M6

87
4110 - M6

59
500 - Z0

52
500 - Z0

88
4110 - M6

4
4112 - M6

3
4110 - M6

92
122 - X0

5
42390 - MC6

109
M6

32091112-Cut

32091109-Cut

32
M6
C6

120
M8

121
C5

Gwinn 91
2015

125
M6

32091125-Cut

0 0.5 1 Miles

46°1'30"N
46°0'30"N
87°4'30"W
87°4'0"W
87°3'30"W
87°3'0"W
87°2'30"W
87°2'0"W
87°1'30"W
87°1'0"W
87°0'30"W
87°0'0"W
86°59'30"W

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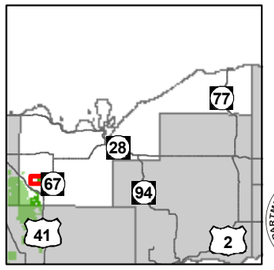

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Dexter Creek
Scott Creek
Scotts Creek

18
6120 - C9

20
622 - L0

19
4119 - M6

96
6120 - C6

21
4130 - A6

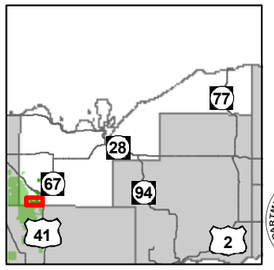
34 35 36 31 02 01 06

46°15'30"N
46°15'0"N
46°14'30"N

0 0.5 1 Miles

87°1'30"W 87°1'0"W 87°0'30"W 87°0'0"W 86°59'30"W 86°59'0"W 86°58'30"W 86°58'0"W

Stand Boundary Map



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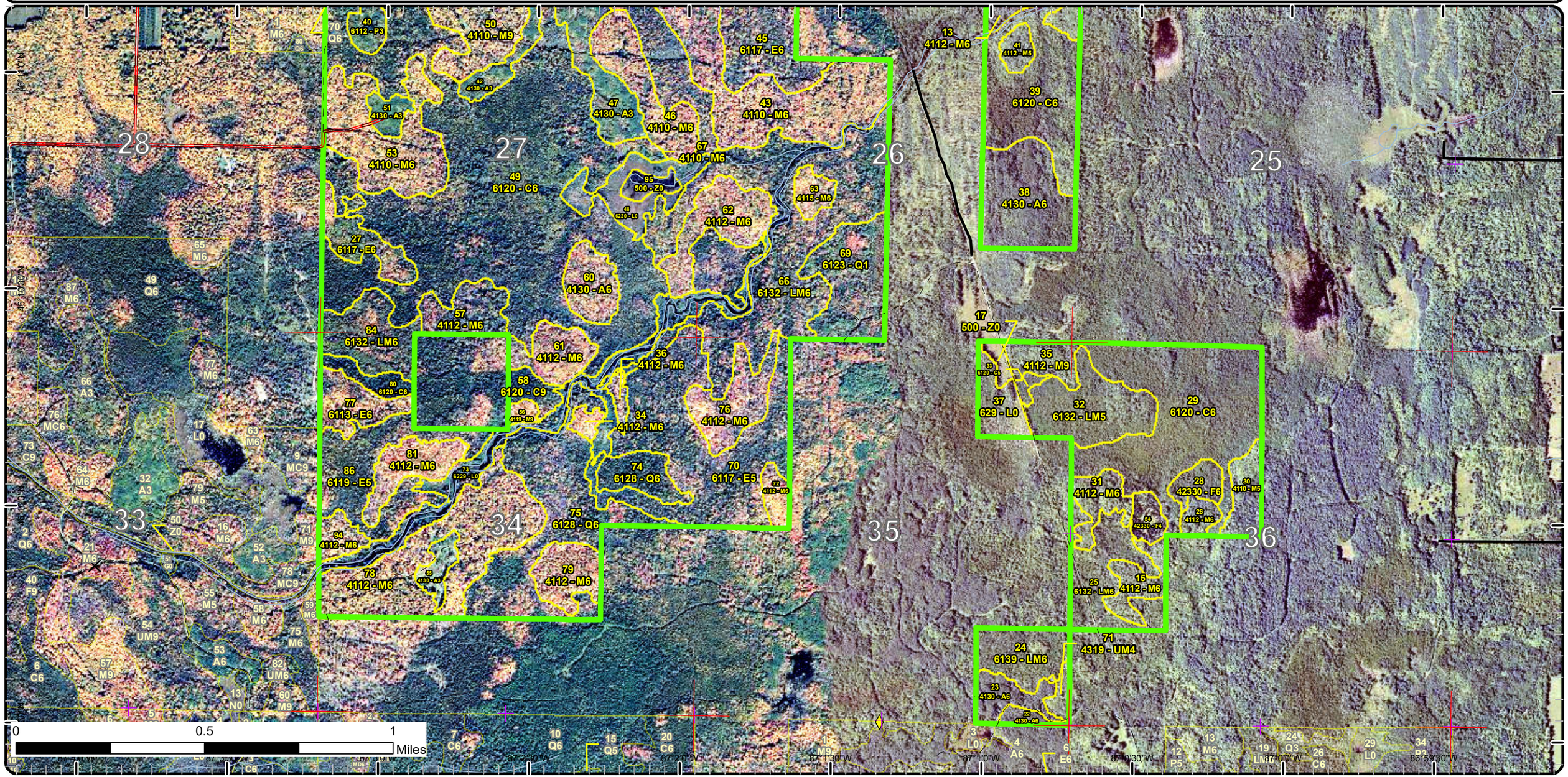

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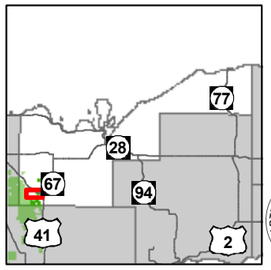

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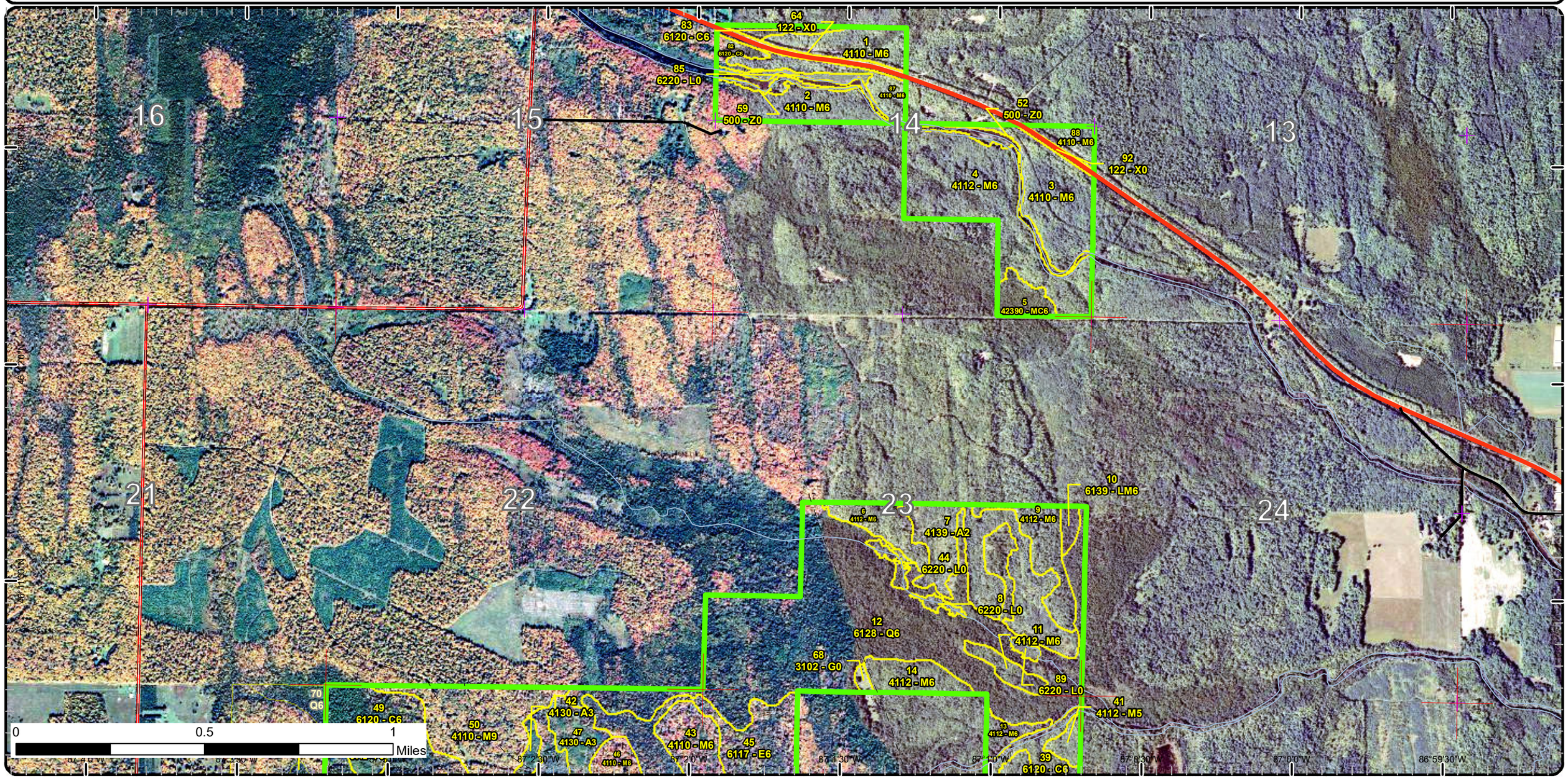

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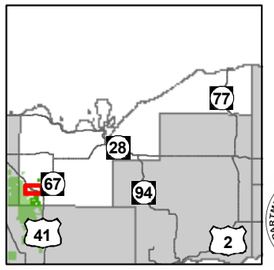

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09 10 11 12
16 15 14 13

16
122 - X0
91
42330 - F6
93
500 - Z0
65
42340 - F6
60
4110 - M6
83
6120 - C6
64
122 - X0
82
6120 - C6
1
4110 - M6
85
6220 - L0
87
4110 - M6
2
4110 - M6
59
500 - Z0
52
500 - Z0
88
4110 - M6
4
4112 - M6
3
4110 - M6
92
122 - X0
5
42390 - MC6
109
M6
121
C5
125
M6
127
X0

0 0.5 1 Miles

87°4'30"W 87°4'0"W 87°3'30"W 87°3'0"W 87°2'30"W 87°2'0"W 87°1'30"W 87°1'0"W 87°0'30"W 87°0'0"W 86°59'30"W
46°13'0"N 46°12'30"N

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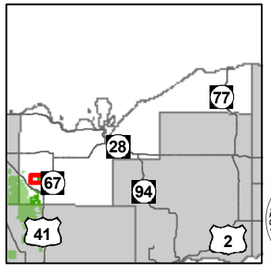

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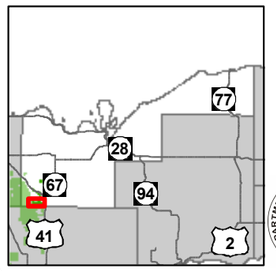
18
6120 - C9
20
622 - L0
96
6120 - C6
19
4119 - M6
21
4130 - A6

34 35 36 31
03 02 01 06

0 0.5 1 Miles

46°1'30"N
46°0'30"N
87°1'30"W
87°1'0"W
87°0'30"W
87°0'0"W
86°59'30"W
86°59'0"W
86°58'30"W
86°58'0"W

Special Conservation Areas & Site Conditions Map



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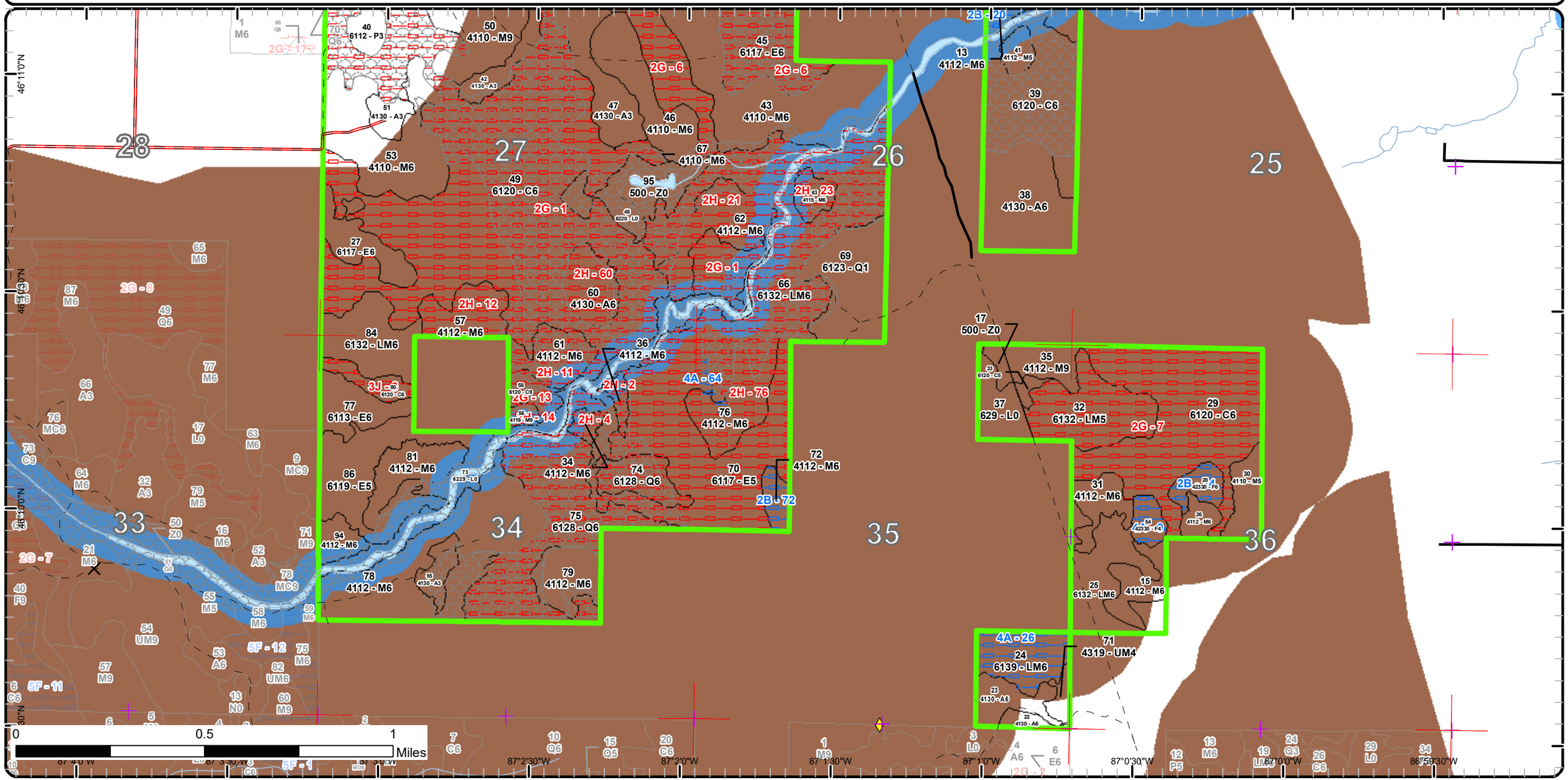
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2B: Unknown if access through adjacent landowner(s) is possible

- 4A: No Markets Available for these Forest Products
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



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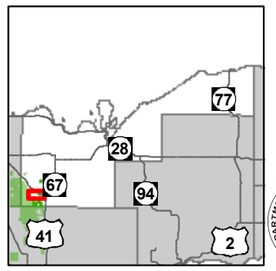

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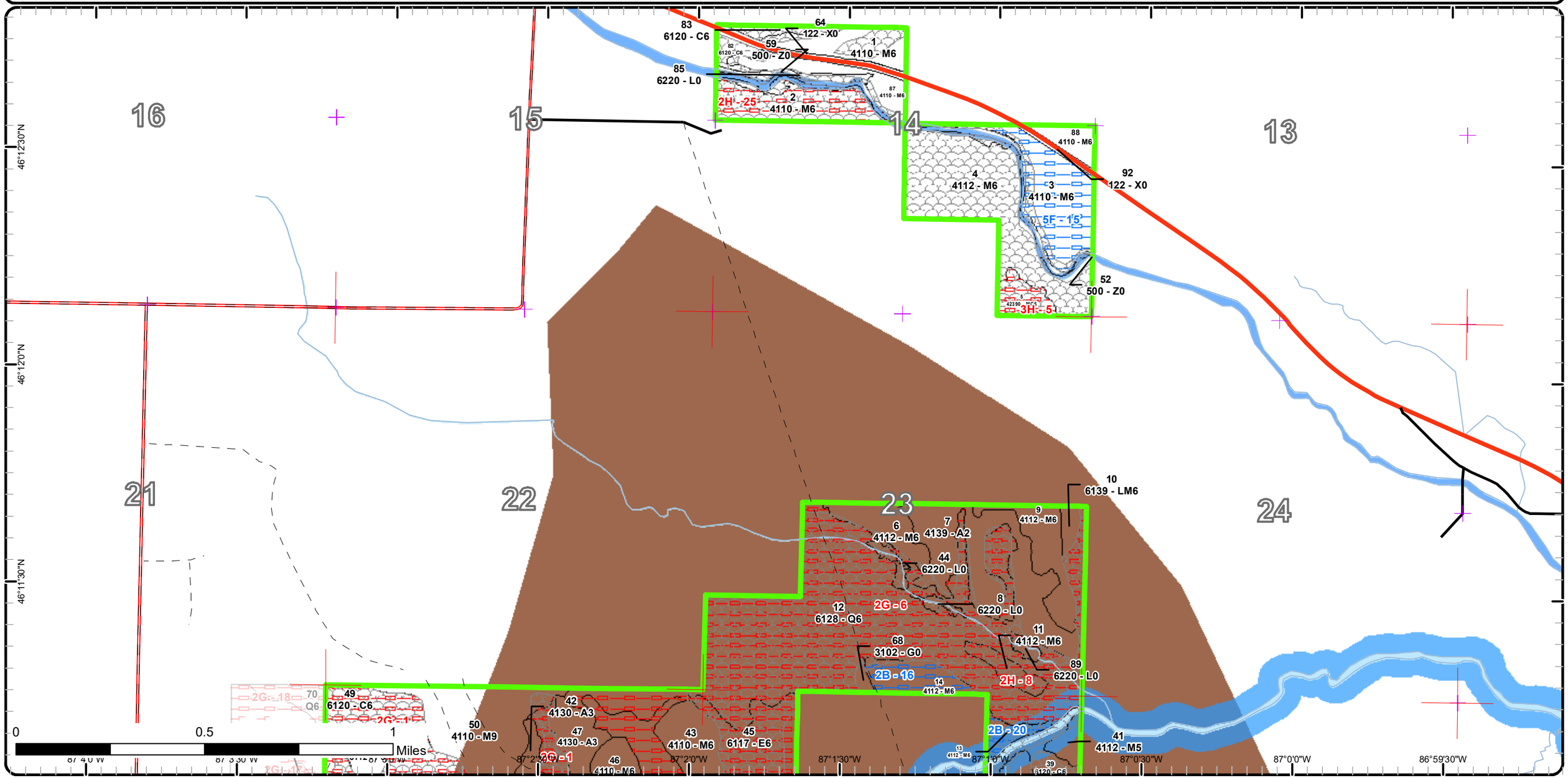

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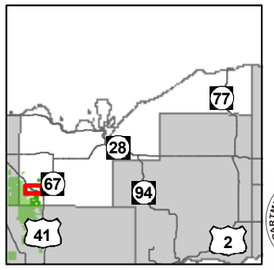

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09 10 11 12 16 15 14 13

16
122 - X0
91
42330 - F6
93
500 - Z0
2H - 22
65
42340 - F6
90
4110 - M6

83
6120 - C6
85
6220 - L0
59
500 - Z0
82
6120 - C6
1
4110 - M6
64
2
122 - X0
2H - 25
4110 - M6
87
4110 - M6

52
500 - Z0
88
4110 - M6
92
122 - X0
4
4112 - M6
3
4110 - M6
5F - 15
3H - 5
5
42390 - MC6

109 M6 112 C6 5F - 14 121 C5 120 M8 125 M6 127

46°13'30"N
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46°12'30"N

0 0.5 1 Miles

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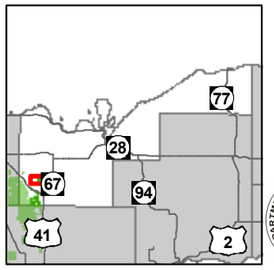

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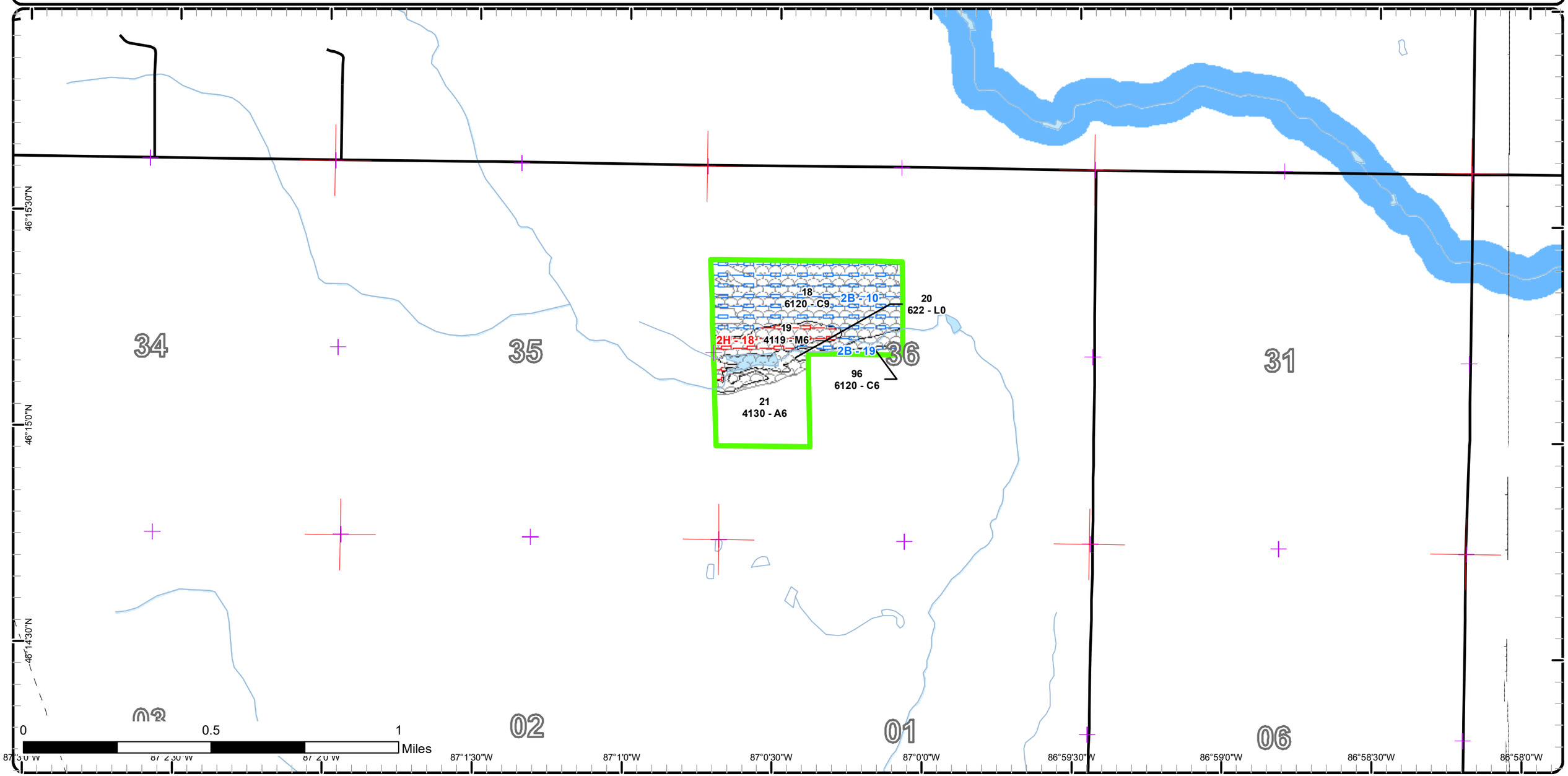
Mgmt Area: Dead Horse Moraines
YOE: 2018
Acres: 2461.4 GIS Calculated
Examiner: Robert Tylka
Map Revised: 2/8/2017
Map Phase: Post-Review

- Miris Corners
- Remonumented Section Corners
- Paved Roads
- Poor Dirt Roads
- Rivers
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2B: Unknown if access through adjacent landowner(s) is possible
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class

Mgt. Unit **Compartment** **Year of Entry**

: Examiner

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
	#Error	#Error	######	#Error	######	#Error	######	#Error	######	#Error	######	#Error	#Error	#Error	#Error	#Error	#Error	#Error	
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 93

Total Compartment Acres: 2,461

Commercial Harvest -

Harvests with Site Condition - 0

Next Step Harvest - 0

Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood	19	0	0	0	0	0	0	0	0	**19**
Upland Spruce/Fir	8	0	0	0	0	0	0	0	0	**8**
Total	**27**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**27**

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	27	0	0	0	0	0	0	0	0	**27**
Next Step	0	13	13	0	0	13	40	0	0	**80**
Total	**27**	**13**	**13**	**0**	**0**	**13**	**40**	**0**	**0**	**107**

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
13	32093013-Cut	5.8	4112 - Maple, Beech, Cherry Association	Poletimber Well	81	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Specs: CC with retention - leave retention in the buffer strip along the river.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: All species present in the current stand are acceptable.

Other Comment: This is deer wintering complex a winter cutting spec should be added. Retain if present any cedar or hemlock

Proposed Start Date: 10/01/2017

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
14	32093014-Cut	13.3	4112 - Maple, Beech, Cherry Association	Poletimber Well	81	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Specs: Clearcut with retention - cut all trees down to 1" DBH on the uplands. Leave the ash swale/drainage intact for protection of a wildlife corridor. Leave room to plant oak once the red pine is established. Details to be established - e.g. skip some rows and plant red oak XX years after the RP is planted.

Next Step Treatments: Pesticide, Skidder/Mechanical; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: Planted red pine in the uplands.

Other Comment: Provide adequate buffer to protect wetlands when spraying herbicide.

This is deer wintering complex a winter cutting spec should be added. Retain if present any cedar or hemlock

Proposed Start Date: 10/01/2017

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
28	32093028-Cut	7.7	42330 - Upland Fir	Poletimber Well	72	81-110	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Specs: Cut now to avoid loss to spruce budworm. Retain cedar plus any hemlock & white pine encountered in the stand.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: All commercial tree species now present are acceptable.

Other Comment: This is deer wintering complex a winter cutting spec should be added.

Proposed Start Date: 10/01/2017

Total Treatment Acreage Proposed: 26.8

Report 4 – Site Conditions

Gwinn Mgt. Unit

Robert Tylka : Examiner

Compartment: 93

Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available		Dominant Site Conditions *2B*	*2D*	*4A*	5F	2G	2H
202	186	***0***	15	**Aspen**						15
525	62	***64***	400	**Cedar**	***64***				399	0
2	2	***0***	0	**Herbaceous Openland**						
7	7	***0***	0	**Lowland Aspen/Balsam Poplar**						
306	36	***0***	271	**Lowland Conifers**					271	
161	0	***1***	160	**Lowland Deciduous**			***1***		159	1
183	35	***21***	127	**Lowland Mixed Forest**			***21***		127	0
98	98	***0***	0	**Lowland Shrub**						
698	502	***61***	135	**Northern Hardwood**	***12***	***13***	***1***	34		135
38	23	***14***	0	**Upland Spruce/Fir**	***8***		***6***			
9	9	***0***	0	**Urban**						
18	18	***0***	0	**Water**						
2,247	978	***161***	1,108	Total Forested Acres	***84***	***13***	***30***	34	957	151
	44%	***7%***	49%	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**	**2G: Too wet (sensitive soils, does not include access issues)**	601	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:							
2		**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:							

3	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	**Unavailable**	**3H: Deer Wintering Areas**	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	270	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	126	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
	Comments: Unmapped drains and vernal ponds throughout the stand.						
8	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

9	**Available**	**4A: No Markets Available for these Forest Products**	7	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
	Comments: Stand notes indicate this is an old opening filling in.						
10	**Available**	**2B: Unknown if access through adjacent landowner(s) is possible**	62	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
11	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	16	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Need bridges etc. to get to this stand.						
12	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	17	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments:						
13	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	7	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
	Comments:						
14	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: No access						

15	**Available**	**5F: Evaluated for Forest Health Considerations**	34	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
16	**Available**	**2D: Portable Bridge Needed (Dept. bridge will be adequate)**	13	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
	Comments: Culvert(s) probably adequate instead of portable bridge						
18	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	14	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
19	**Available**	**2B: Unknown if access through adjacent landowner(s) is possible**	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
20	**Available**	**2B: Unknown if access through adjacent landowner(s) is possible**	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
21	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	26	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

22	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	13	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

23	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	7	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

24	**Available**	**2B: Unknown if access through adjacent landowner(s) is possible**	8	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

25	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	24	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

No known access across the W. Branch Whitefish River

26	**Available**	**4A: No Markets Available for these Forest Products**	21	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

60	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	16	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	2E: Road needed	Unspecified	Unspecified
	Comments: Access across wet lowland timber and several drainages would be prohibitively expensive and difficult.						
64	**Available**	**4A: No Markets Available for these Forest Products**	3	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
	Comments:						
72	**Available**	**2B: Unknown if access through adjacent landowner(s) is possible**	6	2I: Survey needed	Unspecified	Unspecified	Unspecified
	Comments:						
76	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	22	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments:						

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**	27

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	Wild and Scenic Rivers	Wild and Scenic Rivers are established under authority of the National Wild and Scenic Rivers Act, Public Law 90-542, as amended. Each Wild and Scenic River has a river specific Federal management plan, and State agencies may enter into written cooperative agreements with the administering Federal agency for the management of Wild and Scenic Rivers that are upon State-owned lands. There are 18 miles of Federal designated Wild and Scenic Rivers that are located within the State Forest.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4110 - Sugar Maple Association	Poletimber Well	16.9	76	81-110	Thinned 1990. Thick F3 is some areas. Vernal ponds scattered throughout the stand but heavier where the fir is thicker. Should be ready to thin again next entry. There is also a 1.3 acre ash/cedar swale in the NE corner of the stand.
2	4110 - Sugar Maple Association	Poletimber Well	23.7	121	111-140	Nice hardwoods but no known access. Includes a strip of lowland cedar mix along the river that is too small to map out separately.
3	4110 - Sugar Maple Association	Poletimber Well	33.8	81	51-80	Medium quality sugar maple with a fair amount of balsam fir scattered throughout. BA varies between 70-100, so not ready to thin just yet. The site appears to have potential for higher quality with proper management.
4	4112 - Maple, Beech, Cherry Association	Poletimber Well	63.3	61	81-110	Mixed hardwood pole stand with scattered pockets of conifers. Unevenaged characteristics appear to be developing. Overall medium quality but it looks like there is potential for higher quality in the future.
6	4112 - Maple, Beech, Cherry Association	Poletimber Well	13.1	81	81-110	Mostly sugar maple poles. Last cut in '98
7	4139 - Aspen, Mixed Deciduous	Sapling Medium	48.3	14	Immature	Cut around 2002-2003. Some residual cedar, hemlock and yellow birch onsite. Mgt objective is aspen, and in most places it will probably outgrow the red maple, but for now this stand is mixed.
9	4112 - Maple, Beech, Cherry Association	Poletimber Well	17.4	72	51-80	Mixed hardwoods last cut in 2000 - quality is reasonably good but the regeneration appears to be rather slow due to browsing. Basal area is about 70 sq.ft./acre.
10	6139 - Mixed Lowland Forest	Poletimber Well	3.2	72	51-80	Mixed timber on a transitional site between the lowlands and uplands. Most of the aspen and balsam poplar that were present have died out.
11	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.7	101	51-80	Relatively poor quality. Access across the surrounding lowland stand would be difficult.
12	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	200.2	107	51-80	Mixed lowland timber on wet ground with numerous unmapped drainages. Stand density, species composition and site indices all vary significantly, making it hard to map this stand out into more coherent units for possible management. Operability is questionable at best, although there are significantly higher and dryer inclusion within the stand. There are also pockets of hemlock & a few white pine on slightly elevated sites, and small pockets of quaking aspen regen where natural disturbances have occurred.
13	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.8	81	51-80	Generally medium-to-lower quality hardwoods with conifers scattered throughout. BA runs about 70-80 in most places. The ground gets softer & wetter as you approach the river. Access would have to come across private lands.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	4112 - Maple, Beech, Cherry Association	Poletimber Well	13.3	81	51-80	Poor quality hardwood poles - fir etc has all but died out. Soils = Shoepac-Ensley complex 0-6% slope - Ensley muck in the drainage featuring ash, but highly fertile Shoepac fine sandy/silt loams elsewhere.
15	4112 - Maple, Beech, Cherry Association	Poletimber Well	12.5	76	81-110	Uneven-aged hardwoods featuring a mix of sugar & red maple with a few balsam fir, hemlock, cherry etc. scattered throughout. Last cut in 2003.
18	6120 - Lowland Cedar	Sawtimber Well	61.7	201	111-140	Very old cedar with open areas due to blow down. High regeneration of cedar in gaps. Stand also includes a small knob of upland hardwoods on the west side and areas with a mix of aspen and other lowland deciduous SPP in the east. The spruce is at least the second generation in this stand.
19	4119 - Mixed Northern Hardwoods	Poletimber Well	13.5	51	81-110	Mixed timber just above the creek bottom - Primarily hardwood poles but with a significant amount of spruce & fir included, and with aspen scattered throughout. The age shown is a rough estimate as some age class diversity is present but not well-developed.
21	4130 - Aspen	Poletimber Well	30.8	27	51-80	Young aspen just reaching merchantable size. Several pockets of lower & wetter ground are present, and balsam poplar/tag alder are prevalent in these areas. Balsam fir and red maple are shown here as minor species, but these are used to represent a mix of both other conifers and other hardwoods that are scattered throughout the stand in varying numbers. Q. Aspen is by far the dominant spp.
22	4130 - Aspen	Poletimber Well	3.7	34	111-140	Well-stocked aspen pole stand with primarily hardwood regeneration in the understory. Some balsam fir & upland brush also present below the aspen, with the fir more prevalent in the slightly wetter areas.
23	4130 - Aspen	Poletimber Well	11.9	24	51-80	Young aspen just reaching merchantability...more stems still sub-merchantable that will grow to merchantable size.
24	6139 - Mixed Lowland Forest	Poletimber Well	20.6	87	1-50	Age shown is for the dominant trees but due to the semi-open nature of the slow-growing timber, age-class diversity is almost certainly present. The balsam fir appears to be a second-generation cohort. Overall the site is features wet and soft ground, making operability questionable. At this time not enough volume is present to consider commercial cutting.
25	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	31.7	72	51-80	Variable terrain but mostly lowland, with some age class diversity developing. A few of the larger cedar are older than the age given but are probably remnants of the previous stand. The understory shows evidence of deer browsing.
26	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.7	61	51-80	Red maple /paper birch poles. BA is right at 70 sq.ft./acre.
28	42330 - Upland Fir	Poletimber Well	7.7	72	81-110	Primarily upland fir with spruce and red maple mixed in. Cedar and spruce dominant on the lowland inclusions.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	6120 - Lowland Cedar	Poletimber Well	91.7	141	51-80	Mostly cedar in a couple of distinct age classes - logs 12-18" DBH and poles about 6-7" DBH. The balsam fir poles appear to be the second generation in this stand, and matches the approximate age of the second generation of cedar. The stand also includes several pockets where lowland hardwoods are dominant, and in some areas the understory consists mainly of lowland brush (primarily tag alder.) Stand density varies throughout as natural disturbances have further diversified the stand's structure.
30	4110 - Sugar Maple Association	Poletimber Medium	12.6	101	1-50	Understocked maple with a low pocket of spruce
35	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.3	101	81-110	More red maple than sugar maple. Balsam fir regen present
36	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.4	76	81-110	Ridge of upland timber near the creek. Access is problematic.
38	4130 - Aspen	Poletimber Well	39.5	44	81-110	Well stocked aspen with fir in parts.
39	6120 - Lowland Cedar	Poletimber Well	53.2	127	81-110	Mostly cedar with areas of mixed timber. Some larger diameter cedar and a few hemlock are present. The ground is soft but better than most areas in this compartment; some BMP issues still exist but this stand appears to be manageable. Good winter deer cover.
40	6112 - Lowland Aspen	Sapling Well	7.2	15	Immature	Well-stocked young aspen with scattered residuals from the last stand.
41	4112 - Maple, Beech, Cherry Association	Poletimber Medium	10.5	44	81-110	Cut hard in the early 70's - a few larger trees remain but most of this stand is fairly small poles 1-3 sticks and the quality is generally low to medium. BA is about 50-70 in most places. Access is a major issue, and deer browsing has limited the amount of quality regeneration under the poles.
42	4130 - Aspen	Sapling Well	10.2	15	Immature	1 to 3" quaking aspen fully stocked. Pockets of red maple in understory.
43	4110 - Sugar Maple Association	Poletimber Well	70.6	77	81-110	Good quality logs & poles - last cut in 2003.
45	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	70.0	77	51-80	Wet ground supporting a mix of species including lowland brush. Stand density and composition vary quite a bit from place to place with many areas understocked. Overall the timber is fairly slow-growing and this stand appears to be inoperable in many areas due to soft ground, unmapped drainages, etc.
46	4110 - Sugar Maple Association	Poletimber Well	27.4	77	81-110	Good quality - last cut in 2000.
47	4130 - Aspen	Sapling Well	28.0	15	Immature	Young aspen, fully stocked. Maple in the understory with just a few scattered conifers.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	6120 - Lowland Cedar	Poletimber Well	300.5	107	81-110	Mostly cedar poles with scattered lowland hardwoods. It looks like the first cohort of spruce & fir have died out, and scattered birch poles are on their way, too. Everything appears to be rather slow-growing, though the site indices do appear to be quite variable. Stand density & composition also tend to differ from place to place, with lowland brush/submerchantable ash dominating some areas.
50	4110 - Sugar Maple Association	Sawtimber Well	47.6	121	81-110	Last cut in 2003-BA presently averages about 103 sq. ft./ acre. Size and density of understory is variable. A few conifers were also present.
51	4130 - Aspen	Sapling Well	6.3	15	Immature	Young aspen - fully stocked stand.
53	4110 - Sugar Maple Association	Poletimber Well	46.2	71	51-80	2016 - Mostly Sugar maple/basswood but turning into sugar/red maple mix as it drops closer to the lowland types to the east & south. Regen does have pockets where ironwood is dominant but some maple mixing in as well. Quality is good; BA currently runs about 70-80 on average, heavy to poles but developing better size/age class structure. Last entry was during the last decade.
54	42330 - Upland Fir	Poletimber Poor	6.5	61	1-50	Old grassy opening? Filling in with fir and spruce in the middle, and hardwoods are creeping in on the edges..
55	4130 - Aspen	Sapling Well	7.4	5	Immature	young aspen - fully stocked.
57	4112 - Maple, Beech, Cherry Association	Poletimber Well	17.4	81	51-80	Medium to good quality poles on the uplands with wet swales supporting ash etc. Access would be pretty difficult and BMP issues within the stand make harvest even more unlikely. It appears that there were bigger, lower-quality trees present but the largest have aged out and died.
58	6120 - Lowland Cedar	Sawtimber Well	7.4	107	111-140	Low, wet area - mostly cedar but patches of ash, & spruce, plus y. birch scattered throughout. Wet ground and a small stream through the stand make operability questionable, and access would also be an issue.
60	4130 - Aspen	Poletimber Well	15.5	82	81-110	Island of mature aspen surrounded by lowland timber. Access across the wet terrain and several stream crossings make management a very difficult proposition and not feasible at this time. Break-up is underway, and this stand will succeed to a mix of upland timber spp with red maple dominant.
61	4112 - Maple, Beech, Cherry Association	Poletimber Well	16.1	81	51-80	Remote stand featuring poor access. The larger, poor quality trees observed last entry are dying off from storm damage, etc leaving a higher quality pole/small log stand in its place. Evidence of deer browse on the regen. Access could be very expensive.
62	4112 - Maple, Beech, Cherry Association	Poletimber Well	25.9	81	81-110	Mixed hardwoods on soft ground - manageable for a winter cut if you can get there, but access across the lowland types around it is improbable.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	4115 - Y.Birch, Hemlock NH	Poletimber Well	6.9	81	81-110	Hardwood mix (primarily red maple) with some hemlock and a few scattered balsam poplar, w. pine, black ash & fir.
66	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	127.9	72	81-110	Partially cut in some places about 30 years ago. Mixed timber on gently rolling terrain - generally more lowland than upland, but the species composition and stand density are both so variable that defining smaller stands here would be difficult. Balsam fir dominates the understory. Scattered ash present in the wettest areas but it's mostly slow-growing and unmerchantable.
69	6123 - Lowland Fir	Sapling Poor	35.8	24	Immature	Transitional site on gently rolling terrain. The balsam is pretty dense in many areas with others, especially red maple, in patches. A 3-acre retention patch was left when the stand was cut and serves as wildlife habitat while this stand is growing.
70	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	91.3	87	51-80	Mostly low wet ground with pockets of slightly higher & dryer. BMP issues and poor access are problematic. Stand density is extremely variable. Scattered hemlock, spruce and cedar in small pockets throughout the stand.
72	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.4	71	81-110	Decent quality. Requires winter access across private lands.
75	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	70.3	87	51-80	Primarily a mix of slow-growing cedar, red maple and ash. Some small areas of upland containing cedar and hemlock plus hardwoods. Stand density is extremely variable but generally averages around 50-60 sq.ft./acre; site indices are also variable.
76	4112 - Maple, Beech, Cherry Association	Poletimber Well	22.9	71	111-140	Decent quality - winter only access
78	4112 - Maple, Beech, Cherry Association	Poletimber Well	68.0	81	51-80	Mixed hardwoods - last cut in 2012. BA is currently around 60-70 in most places.
79	4112 - Maple, Beech, Cherry Association	Poletimber Well	16.7	81	81-110	Good quality pole stand starting to show a few more logs.
81	4112 - Maple, Beech, Cherry Association	Poletimber Well	17.3	77	81-110	Upland mix of red & sugar maple with scattered hemlock and a few paper birch. Some age class diversity is present but it appears that past history has this stand at about the same age as other hardwood stands in the vicinity.
82	6120 - Lowland Cedar	Poletimber Well	4.4	87	51-80	Mix of lowland conifer and lowland hardwood, heavy to cedar. Whitefish river buffer.
83	6120 - Lowland Cedar	Poletimber Well	4.1	87	51-80	Mix of lowland conifer and lowland hardwood, heavy to cedar. Drainage channel through the stand.
87	4110 - Sugar Maple Association	Poletimber Well	13.9	101	81-110	Narrow stand between the river and the highway. Timber quality is not impressive - many den trees, etc. Best value at this time is to serve as a river buffer, but it might be ready to thin next entry.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
88	4110 - Sugar Maple Association	Poletimber Well	6.9	81	81-110	Medium-to-low-quality hardwoods, but the site can probably produce better with proper management. BA is around 80-90, so still not quite ready for a thinning.
90	4110 - Sugar Maple Association	Poletimber Well	16.9	111	81-110	Borders old campground. Decent hardwood site
91	42330 - Upland Fir	Poletimber Well	23.4	41	51-80	borders old campground and creek. Thick balsam fir throughout
94	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.5	77	81-110	Upland hardwood - mix of red & sugar maples with a few other spp scattered throughout. BA is presently averagesabout 80-100 sq.ft./acre, with a few spots running higher. Still more or less even-aged but age-class diversity is developing.
96	6120 - Lowland Cedar	Poletimber Well	2.2	87	81-110	Strip of cedar along the creek bottom - limited access as it is bounded on the south by private lands - maintain for wildlife cover.

Stand	Cover Type	Acres	Managed Site	General Comments:
20	622 - Lowland Shrub	12.3	No	Lowlands along the creek - varies from stunted timber and/or lowland brush spp to open marshland. Actual water levels vary seasonally but the area is generally inoperable. Several small knobs/ridges of merchantable timber are included - these are virtually unreachable.
37	629 - Mixed non-forested wetland	13.7	No	Backflooded area - many dead & dying trees but scattered survivors on higher knobs are hanging on for now. More are alive near the west edge but the mortality is continuing to spread.
48	6220 - Alder/willow	20.2	No	Lowland brush, mostly alder along creek. Some areas containing mostly grass.
52	500 - Water	7.1	No	W. Branch Whitefish River
59	500 - Water	4.5	No	WHITEFISH RIVER
64	122 - Road/Parking Lot	6.5	No	US-41 ROW
68	3102 - Grass	1.5	No	Small opening with scattered trees along the edges. Transitional site - dryer in the middle and wetter along western perimeter.
73	6229 - Mixed lowland shrub	44.0	No	Mix of lowland brush spp. and scattered trees in the bottomland along Werner Creek.
85	6220 - Alder/willow	7.3	No	Lowland brush along the Whitefish River, with a few clumps of cedar along the banks.
92	122 - Road/Parking Lot	2.4	No	US-41 ROW
93	500 - Water	1.3	No	West Branch Whitefish River
95	500 - Water	5.3	No	Beaver pond on feeder stream to Werner Creek. Water level varies seasonally.